



# Mail API Developer Guide

# Aconex Mail Services

**Important:** Make sure your API integrations support Renditions, which allows you to manage multiple file formats per document. See [Update your API integrations to support Renditions](#).

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## Aconex Mail Services (version 3)

If you want to find out how to use versioning, see the [Versioning](#) section in the above section.

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### Create Mail

#### Create Mail (Version 3)

The service creates a new mail item in the specified project.

#### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*s indicate the parent-child depth.

| Field name              | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                    | Group                  | 1           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * AttachedDocId         | String                 | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * Attribute1+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * Attribute2+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * Attribute3+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * Attribute4+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * BccUserId             | String                 | 0..n        | UserId(s) of BCC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                                                                                                                |
| * CcUserId              | String                 | 0..n        | UserId(s) of CC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                                                                                                                 |
| * Confidential          | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail                                                                                                                                                                                                                                                                                                   |
| * MailBody              | String(2GB)            | 0..1        | If body contains html or special characters, the content must be escaped or enclosed in a CDATA tag: For e.g. <![CDATA[<h1>Test Header </h1><b>test mail ]]>                                                                                                                                                                                                                                                                                                                        |
| * MailSubject*          | String(250)            | 1           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * MailTypeId*           | Integer(32-bit signed) | 1           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| * ResponseRequiredDate  | String                 | 0..1        | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                                                                                                                                 |
| * RichMailText*         | Boolean                | 1           | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text.                                                                                                                                                                                                                                                                                                                                            |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1           | Value of '0' if no the correspondence contains no attachments                                                                                                                                                                                                                                                                                                                                                                                                                       |
| * ToUserId*             | String                 | 0..n        | UserId(s) of TO recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                                                                                                                 |
| * MailFormFields+       | Group                  | 0..1        | Mail Form field values.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ** MailFormField+       | String                 | 0..n        | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"> <li>boolean: true, false</li> <li>number: 123, 145.3, -45 etc</li> <li>date: yyyy-mm-dd e.g. 2014-02-23</li> <li>singleLineText: single line of text</li> <li>multiLineText: text separated by newline characters</li> <li>singleSelect: option text</li> <li>multiSelect: option text</li> <li>user: user id. if one field has multiple values, they should be in separate elements</li> </ul>  |
| ** identifier*          | Attribute              | 1           | Mail Form field identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| * RestrictedFields+     | Group                  | 0..1        | Restricted field values.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ** RestrictedField+     | String                 | 0..n        | Restricted field value. Allowed values per type: <ul style="list-style-type: none"> <li>boolean: true, false</li> <li>number: 123, 145.3, -45 etc</li> <li>date: yyyy-mm-dd e.g. 2014-02-23</li> <li>singleLineText: single line of text</li> <li>multiLineText: text separated by newline characters</li> <li>singleSelect: option text</li> <li>multiSelect: option text</li> <li>user: user id. if one field has multiple values, they should be in separate elements</li> </ul> |
| ** identifier*          | Attribute              | 1           | Restricted field identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ExistingMailId          | String                 | 0..1        | existing Draft mailId identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Specifying Header for API Version 3

The Content-Type header of the entire payload must be "multipart/mixed".

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v3+xml", and **there must be an empty line** between the header and the XML payload.

### Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/
```

```
[HTTP Header]
```

```
Content-Type=multipart/mixed; boundary="myboundary"
```

```
[HTTP Post content]
```

```
--myboundary
```

```
Content-Type: application/vnd.aconex.mail.v3+xml
```

```
<Mail>
```

```
<Attribute1>Administration</Attribute1>
```

```
<Attribute1>Podium</Attribute1>
```

```
<Attribute2>WP3.01 - Cladding</Attribute2>
```

```
<Attribute3>A valid value of Attribute 3</Attribute3>
```

```
<Attribute4>Archive - Australia</Attribute4>
```

```
<Attribute4>Archive - Middle East</Attribute4>
```

```
<BccUserId>1879049123</BccUserId>
```

```
<BccUserId>1879049126</BccUserId>
```

```
<CcUserId>1879049184</CcUserId>
```

```
<CcUserId>1879049256</CcUserId>
```

```
<MailBody>
```

```
...
```

```
</MailBody>
```

```
<MailSubject>Test Create Mail 0015</MailSubject>
```

```
<MailTypeId>1879048200</MailTypeId>
```

```
<ReasonForIssue>4</ReasonForIssue>
```

```
<ResponseRequired>3</ResponseRequired>
```

```
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
```

```
<RichMailText>true</RichMailText>
```

```
<TotalAttachmentCount>4</TotalAttachmentCount>
```

```
<ToUserId>1879049087</ToUserId>
```

```
<ToUserId>1879049309</ToUserId>
```

```
<!-- THIS IS NEW -->
```

```
<MailFormFields>
```

```
<MailFormField identifier="completed_boolean">false</MailFormField>
```

```
<MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
```

```
<MailFormField identifier="job_singleLineText">Software Engineer</MailFormField>
```

```
<MailFormField identifier="experience_multiLineText">Experienced in all aspects of the software lifecycle.</MailFormField>
```

```
/MailFormFields>
```

```
<MailFormField identifier="satisfaction_singleSelect">High</MailFormField>
```

```
<MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
```

```
<MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
```

```
<MailFormField identifier="commute_number_length_kilometre">25</MailFormField>
```

```
<MailFormField identifier="assignee_user">1879049124</MailFormField>
```

```
<MailFormField identifier="assignee_user">1879049123</MailFormField>
```

```
</MailFormFields>
```

```
<RestrictedFields>
```

```
<RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
```

```
<RestrictedField identifier="restricted_paymentdue_date">2013-12-20</RestrictedField>
```

```
<RestrictedField identifier="restricted_job_singleLineText">Software Engineer</RestrictedField>
```

```
<RestrictedField identifier="restricted_experience_multiLineText">Experienced in all aspects of the software lifecycle.</RestrictedField>
```

```
<RestrictedField identifier="restricted_satisfaction_singleSelect">High</RestrictedField>
```

```
<RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RFMultiSelect-Option-1</RestrictedField>
```

```
/RestrictedField>
```

```
<RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RFMultiSelect-Option-2</RestrictedField>
```

```
/RestrictedField>
```

```
<RestrictedField identifier="restricted_commute_number_length_kilometre">25</RestrictedField>
```

```
<RestrictedField identifier="assignee_user">1879049249</MailFormField>
```

```
<RestrictedField identifier="assignee_user">1879049250</MailFormField>
```

```
</RestrictedFields>
```

```
<!-- THIS IS NEW -->
```

```
</Mail>
```



```
/MediaBox [ 0 0 2306 1610 ]
/CropBox [ 0 0 2306 1610 ]
/Contents 7 0 R
>>
endobj
xref
0 9
0000000000 65535 f
0000000021 00000 n
0000000093 00000 n
0000000145 00000 n
0000000211 00000 n
0000000245 00000 n
0000419956 00000 n
0000000346 00000 n
0000419931 00000 n
trailer
<<
/Size 9
/Root 1 0 R
/Info 5 0 R
>>
startxref
420118
%%EOF

--myboundary
X-Filename: localFile02.xls

l=XíòÀ`èäü\P1»MhŸ9£Mà-ìV@dDAí×aV×B™[Ý^fJÃ-Pø`Ö„AÜV^...ó¹f
iH ín÷bÜ-Æé"á€d>0zİÜ`næ"Ç$¹ €00ð'>äbµ- -&Üİİâ²»Æv¹÷bÄKyİ¼²óóD:²²ææ,AGm`Ö\nzÊÇiÜÃ™ä¼.uİ‡YC%6i0Mf"â3o¶rAÜ$"Ã5...
µÜæÂNH...T[XF64İT,Ŋæ-üËM0ëE)`#ý5²XYf`ø×²

--myboundary--
```

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">

    <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

All the below validations has been suppressed except Recipient userId validation .

Sample Validation Error response

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>VALIDATION_FAILED</ErrorCode>
  <ErrorDescription>Validation failed!</ErrorDescription>
  <RequestID>kcdzj7xl</RequestID>
  <SystemTime>2020-07-09T09:20:13.831+10:00</SystemTime>
  <Fields>
    <MailFormFields>
      <Field>
        <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
        <FieldName>completed_boolean</FieldName>
        <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
      </Field>
      <Field>
        <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
        <FieldName>Z_boolean</FieldName>
        <ErrorMessage>Provided value is not valid for field Z_boolean</ErrorMessage>
      </Field>
      <Field>
        <ErrorCode>INVALID_FIELD_HIERARCHY_VALUES</ErrorCode>
        <FieldName>City</FieldName>
        <ErrorMessage>Field Hierarchy Error - Invalid value in [City] field as no parent value
specified in [State] field</ErrorMessage>
      </Field>
      <Field>
        <ErrorCode>INVALID_FIELD_HIERARCHY_VALUES</ErrorCode>
        <FieldName>Product</FieldName>
        <ErrorMessage>Field Hierarchy Error - Invalid value in [Product] field based on parent value
specified in [Department] field</ErrorMessage>
      </Field>
    </MailFormFields>
    <Field>
      <ErrorCode>MISSING_MANDATORY_FIELD</ErrorCode>
      <FieldName>MailSubject</FieldName>
      <ErrorMessage>Valid value not provided for Mandatory field MailSubject</ErrorMessage>
    </Field>
    <RestrictedFields>
      <Field>
        <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
        <FieldName>completed_boolean</FieldName>
        <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
      </Field>
    </RestrictedFields>
  </Fields>
</Error>

```

### Sample Error Response (Falling outside Validation Errors)

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>LOGIN_FAILED</ErrorCode>
  <ErrorDescription>Login failed - username or password incorrect</ErrorDescription>

  <RequestID>if6e2vpa</RequestID>
  <SystemTime>2020-07-28T16:27:37.364+10:00</SystemTime>
</Error>

```

### Saving to Drafts

To save to drafts, add the optional query parameter `is_draft` with value 'true' like the sample below:

[https://au1.aconex.com/api/projects/1879048422/mail?is\\_draft=true](https://au1.aconex.com/api/projects/1879048422/mail?is_draft=true)

The request payload as below adding ExistingMailId, and the response comes with **sendStatus="Drafted"** for the **SendMailResult** element.

### Sample request

```
[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary
Content-Type: application/vnd.aconex.mail.v3+xml

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>

<ExistingMailId>1879065872</ExistingMailId>
<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>4</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="job_singleLineText">Software Engineer</MailFormField>
  <MailFormField identifier="experience_multiLineText">Experienced in all aspects of the software lifecycle.<
/MailFormField>
  <MailFormField identifier="satisfaction_singleSelect">High</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
  <MailFormField identifier="commute_number_length_kilometre">25</MailFormField>
  <MailFormField identifier="assignee_user">1879049124</MailFormField>
  <MailFormField identifier="assignee_user">1879049123</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_paymentdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_job_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_experience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_satisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RFMultiSelect-Option-1<
/RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RFMultiSelect-Option-2<
/RestrictedField>
  <RestrictedField identifier="restricted_commute_number_length_kilometre">25</RestrictedField>
  <RestrictedField identifier="assignee_user">1879049249</MailFormField>
  <RestrictedField identifier="assignee_user">1879049250</MailFormField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary
X-DocumentId: 1879099024

--myboundary
X-DocumentId: 1879099380

--myboundary
X-MailId: 1879048223

--myboundary
X-Filename: localFile01.pdf

%PDF-1.2
```

```
%aãïÖ
1 0 obj
<<
/Type /Catalog
/Pages 3 0 R
/Outlines 2 0 R
>>
endobj
2 0 obj
<<
/Type /Outlines
/Count 0
>>
endobj
3 0 obj
<<
/Type /Pages
/Count 1
/Kids [6 0 R ]
>>
endobj
4 0 obj
[/PDF /ImageC ]
endobj
5 0 obj
<<
/Producer (ViewCompanion)
/CreationDate (Monday, 22 May 2006 12:40:35 AM)
>>
endobj
7 0 obj
<</Length 8 0 R
/Filter [/FlateDecode]
>>
stream
xœi½»@eÉ®,æ`yÃp,Åx?Üâ©6...ë]@€PÓ'£ß×`2,fŽU]Õ8,,ãTwEEæİA2ß$sp÷ÿü~ÿ~ÿÿ¿þè?!Ó4ý[ÿûßp-7öÿú?
þðÿûø÷÷îÿÉÿÿYáùÇt-Vø\Žùòìÿ%İÊôİ!çe
äç¿þä`ÿç>ı?¶ŪÄê©Ėhútø?qÚ|L?ðēßó6İ?ŽÝhó1ÿXİ@ev×½}èGũÑ@øŁ°s}GZ©ŸpªÓJ÷u/H´j»¶Œ= $JmŬücb™N~òüc6Áæİ
[çÿþ±ßŽÂŞİçSİ÷ÿā°
H-±İăŠp"u90ă•~Ě,,«µê©|Ÿ!ėhø-qš-)èĚ- R?@CNÓ¶-;->üşoqo6¶~Ó-GÿŬĚe»--¶@æG¼~myz...F▯Đ-ùÇ:'J»~æG¥)´ŎmShD
m[ [ i ) ´yé-Wim@fAk%¹Q~B{oWō-ō-ă6w?º\Ĕİ-tß-Mō,÷3"đó´Ůfİ
ÿªŎ¶<¿8µ†ı?öVpyú@™ÇòteqdóĖ×$
-W3ĔEeŸŽ!¥!çõă,
ıµ/O<7"ê:yX¼æxFVü9wum¶²...6KmıĔ ©ĂJ3ŽƑEMS#•] h@*mür ...6ÿ,~ÍÆr*Ŭ:;űć6]θ-GĂ¿ViàI{ }p=m¿~İgııŬkh³OI{"zO=ı¼-«Ŏž1ēēı63
&-0,0³ÿĔ- kù€{úq÷ı¿İkùÁS>M{G:³Q!Y'X;Ŏđc{&KýÓ'Øµ Ő†ŎŎ"±@Ĕūoz{¤áóG"ê>u8&4ĐLC@:ÚtĂ~÷ž}#Ag²;-
HO>1ræēēJ{f«é(µ9ŎŦöFWZŬ3ăă^acłµmŽt´e³9Ik>SG/uZmlŦŬ©ˆânGj³!hıt9w>I¥6 ı±žÿ/µ=ß~_m{,{©Í'Ž¶pæ¶%,İjkhŬ|Ŭ~©µ9ŎŎfd
¥¶İüēBSO>Ÿ.3~ZZöH)İrFW¹"...ıı%ÿdăĔŚ"¶-5¤
UŰ£I;±Ŭ!,ª´k+ šSksw´PVŎ!Ĕ
ŬĔēó(µ=]æ~4)jSC
š;ŎætZİiă~-yĐ¼fHmêD-:´Ŏ!ŏivxih18Dm$-$-
,Z>÷ı|ŬşŽt4đ¤6Ė•-f*k+fjĐ|@ŬŬ|Đæ°ÿñ™>Ė<5đoŎfĕĔ}ŎŦĤĔ#ŎFİŬŠ'-Ė<5đendstream
endobj
8 0 obj
419504
endobj
6 0 obj
<<
/Type /Page
/Parent 3 0 R
/Resources <<
/ProcSet 4 0 R
>>
/MediaBox [ 0 0 2306 1610 ]
/CropBox [ 0 0 2306 1610 ]
/Contents 7 0 R
>>
endobj
xref
0 9
0000000000 65535 f
0000000000 21 00000 n
0000000000 93 00000 n
00000000145 00000 n
00000000211 00000 n
00000000245 00000 n
```

```
0000419956 00000 n
0000000346 00000 n
0000419931 00000 n
trailer
<<
/Size 9
/Root 1 0 R
/Info 5 0 R
>>
startxref
420118
%%EOF

--myboundary
X-Filename: localFile02.xls

l=XíòÄ`èáÜ\P1»Mhÿ9£Mà~ìV@dDAi×aV×B™[Ý`fJÃ-P$`Ö„AÜV^...ó¹f
İH ín÷bÜ-Æé"á€d>Özİû`næ"Ç$¹ €00ð'>äbµ- -&üÜîâ²»Æv¹÷bÄKyİ¼□óöD:²□ææ,AGm`Ö\nzÊÇiÜÂ™ã¼.uİ†YC%6i0MF"â3o¶rÂÜ$`Ã5...
µûæÂNH...T[XF64ÎT,Ñæ~üËM0ëE)`#ý5□XYf`ø×□

--myboundary--
```

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>

<SendMailResult sendStatus="Drafted">
  <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

Error Codes Specific to the Service

| Status Code                       | Description                                                                                                                                             | HTTP Status Code |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| BAD_BASE64_DATA                   | The base64 data for the file <filename> was found to be invalid...                                                                                      | 400 Bad Request  |
| NO_RECIPIENTS                     | No recipients to send mail to specified                                                                                                                 | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                     | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                           | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : Cannot send to recipients that are not in the same organization                                   | 400 Bad Request  |
| INVALID_FUTURE_DATE               | The date [InvalidDate] for the field [FieldName] must be in the future                                                                                  | 400 Bad Request  |
| INVALID_FIELD_VALUE               | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                        | 400 Bad Request  |
| UNEXPECTED_FIELD_VALUE            | User provided unnecessary property value. ReasonForIssue is only valid certain mail types.                                                              | 400 Bad Request  |
| MULTIPLE_ATTACHMENT_HEADERS_FOUND | Multiple headers received for multipart attachment <b>x-document</b> , <b>-abcdefg-</b> . Only a single header is expected                              | 400 Bad Request  |
| INVALID_ATTACHMENT_COUNT          | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments | 400 Bad Request  |
| CANNOT_ATTACH_LOCAL_FILES         | Cannot attach local files for mail type which is a transmittal                                                                                          | 400 Bad Request  |
| FIELD_LENGTH_EXCEEDED             | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                      | 400 Bad Request  |
| FIELD_LENGTH_TOO_SHORT            | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                      | 400 Bad Request  |

|                                       |                                                                                                                                                                                                                |                 |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| DUPLICATED_FIELD                      | Provided multiple <a href="#">mail form fields</a> / <a href="#">restricted fields</a> with same identifier                                                                                                    | 400 Bad Request |
| INVALID_FIELD_IDENTIFIER              | Provided <a href="#">mail form field</a> / <a href="#">restricted field</a> which is not associated with this mail type or <a href="#">provided restricted field that does not belong to this organisation</a> | 400 Bad Request |
| VALIDATION_FAILED                     | One or more form fields validation failed due to invalid values                                                                                                                                                | 400 Bad Request |
| DISTRIBUTION_RULE_RESTRICTION_UPDATED | Mail Distribution Restriction value has been updated                                                                                                                                                           | 400 Bad Request |
| INVALID_FIELD_HIERARCHY_VALUES        | User has provided values that do not correspond to hierarchy values defined on the project                                                                                                                     | 400 Bad Request |

## Reply Mail

### Reply Mail (Version 3)

The service creates a reply to an existing mail item in the specified project.

#### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name              | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                                        |
|-------------------------|------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                    | Group                  | 1           |                                                                                                                                                                                                              |
| * Attribute1+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute2+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute3+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute4+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * BccUserId             | String                 | 0..n        | UserId(s) of BCC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                         |
| * CcUserId              | String                 | 0..n        | UserId(s) of CC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                          |
| * Confidential          | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this mail.<br><br><b>Note:</b> An exception is where a user has the secured asset to search ANY confidential mail.                     |
| * MailBody              | String(2GB)            | 0..1        |                                                                                                                                                                                                              |
| * MailSubject*          | String(250)            | 1           |                                                                                                                                                                                                              |
| * MailTypeId*           | Integer(32-bit signed) | 1           |                                                                                                                                                                                                              |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                              |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                              |
| * ResponseRequiredDate  | String                 | 0..1        | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                          |
| * RichMailText*         | Boolean                | 1           | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text                                                                      |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1           | The number of attachments expected in this correspondence. This value is verified against the total number of "parts" included in the request. A value of '0' if the correspondence contains no attachments. |
| * ToUserId*             | String                 | 0..n        | UserId(s) of TO recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                          |
| * MailFormFields+       | Group                  | 0..1        | <a href="#">Mail Form field values.</a>                                                                                                                                                                      |

|                     |           |      |                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** MailFormField+   | String    | 0..n | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"> <li>boolean: true, false</li> <li>number: 123, 145.3, -45 etc</li> <li>date: yyyy-mm-dd e.g. 2014-02-23</li> <li>singleLineText: single line of text</li> <li>multiLineText: text separated by newline characters</li> <li>singleSelect: option text</li> <li>multiSelect: option text</li> </ul>  |
| ** identifier*      | Attribute | 0..1 | Mail Form field identifier                                                                                                                                                                                                                                                                                                                                                            |
| * RestrictedFields+ | Group     | 0..1 | Restricted field values.                                                                                                                                                                                                                                                                                                                                                              |
| ** RestrictedField+ | String    | 0..n | Restricted field value. Allowed values per type: <ul style="list-style-type: none"> <li>boolean: true, false</li> <li>number: 123, 145.3, -45 etc</li> <li>date: yyyy-mm-dd e.g. 2014-02-23</li> <li>singleLineText: single line of text</li> <li>multiLineText: text separated by newline characters</li> <li>singleSelect: option text</li> <li>multiSelect: option text</li> </ul> |
| ** identifier*      | Attribute | 1    | Restricted field identifier                                                                                                                                                                                                                                                                                                                                                           |
| ExistingMailId      | String    | 0..1 | existing Draft mailId identifier                                                                                                                                                                                                                                                                                                                                                      |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Specifying Header for API Version 3

The Content-Type header of the entire payload must be "multipart/mixed".

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v3+xml", and **there must be an empty line** between the header and the XML payload.

### Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/1879049444/reply
```

```

[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary
Content-Type: application/vnd.aconex.mail.v3+xml

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>

<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>0</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_cpayoutdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_cjob_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_cexperience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_csatisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="restricted_ccommute_number_length_kilometre">25</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-1<
/RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-2<
/RestrictedField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary--

```

#### Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
  <SendMailResult sendStatus="MailSent">

    <NewMailId>1879053577</NewMailId>
  </SendMailResult>

```

All the below validations has been suppressed now except Recipient userId .

Sample Validation Error Response

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
  <Error>
    <ErrorCode>VALIDATION_FAILED</ErrorCode>
    <ErrorDescription>Validation failed!</ErrorDescription>
    <RequestID>kcdzj7xl</RequestID>
    <SystemTime>2020-07-09T09:20:13.831+10:00</SystemTime>
    <Fields>
      <MailFormFields>
        <Field>
          <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
          <FieldName>completed_boolean</FieldName>
          <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
        </Field>
        <Field>
          <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
          <FieldName>Z_boolean</FieldName>
          <ErrorMessage>Provided value is not valid for field Z_boolean</ErrorMessage>
        </Field>
      </MailFormFields>
      <Field>
        <ErrorCode>MISSING_MANDATORY_FIELD</ErrorCode>
        <FieldName>MailSubject</FieldName>
        <ErrorMessage>Valid value not provided for Mandatory field MailSubject</ErrorMessage>
      </Field>
      <RestrictedFields>
        <Field>
          <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
          <FieldName>completed_boolean</FieldName>
          <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
        </Field>
      </RestrictedFields>
    </Fields>
  </Error>

```

#### Sample Error Response (Falling outside Validation Errors)

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>LOGIN_FAILED</ErrorCode>
  <ErrorDescription>Login failed - username or password incorrect</ErrorDescription>

  <RequestID>if6e2vpa</RequestID>
  <SystemTime>2020-07-28T16:27:37.364+10:00</SystemTime>
</Error>

```

#### Saving to Drafts

To save to drafts, add the optional query parameter `is_draft` with value 'true' like the sample below:

[https://au1.aconex.com/api/projects/1879048422/mail/1879049444/reply?is\\_draft=true](https://au1.aconex.com/api/projects/1879048422/mail/1879049444/reply?is_draft=true)

The request payload as below adding ExistingMailId, and the response comes with `sendStatus="Drafted"` for the `SendMailResult` element.

```

[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary
Content-Type: application/vnd.aconex.mail.v3+xml

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>

<ExistingMailId>1879065872</ExistingMailId>
<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>0</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_cpaymentdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_cjob_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_cexperience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_csatisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="restricted_ccommute_number_length_kilometre">25</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-1<
/RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-2<
/RestrictedField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary--

```

#### Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
  <SendMailResult sendStatus="Drafted">

    <NewMailId>1879053577</NewMailId>
  </SendMailResult>

```

#### Error Codes Specific to the Service

| Status Code     | Description                                                        | HTTP Status Code |
|-----------------|--------------------------------------------------------------------|------------------|
| BAD_BASE64_DATA | The base64 data for the file <filename> was found to be invalid... | 400 Bad Request  |

|                                       |                                                                                                                                                                |                 |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| NO_RECIPIENTS                         | No recipients to send mail to specified                                                                                                                        | 400 Bad Request |
| INVALID_RECIPIENTS                    | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                            | 400 Bad Request |
| INVALID_RECIPIENTS                    | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                                  | 400 Bad Request |
| INVALID_FIELD_VALUE                   | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                               | 400 Bad Request |
| INVALID_ATTACHMENT_COUNT              | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments        | 400 Bad Request |
| UNEXPECTED_FIELD_VALUE                | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                                | 400 Bad Request |
| FIELD_LENGTH_EXCEEDED                 | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                             | 400 Bad Request |
| FIELD_LENGTH_TOO_SHORT                | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                             | 400 Bad Request |
| DUPLICATED_FIELD                      | Provided mail form custom fields / restricted fields with same identifier                                                                                      | 400 Bad Request |
| INVALID_FIELD_IDENTIFIER              | Provided mail form field / restricted field which is not associated with this mail type or provided restricted field that does not belong to this organisation | 400 Bad Request |
| VALIDATION_FAILED                     | One or more form fields validation failed due to invalid values                                                                                                | 400 Bad Request |
| DISTRIBUTION_RULE_RESTRICTION_UPDATED | Mail Distribution Restriction value has been updated                                                                                                           | 400 Bad Request |

## Forward Mail

### Forward Mail (Version 3)

The service creates a forward of an existing mail item in the specified project.

#### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name        | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                             |
|-------------------|------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail              | Group                  | 1           |                                                                                                                                                                                   |
| * Attribute1+     | String(200)            | 0..n        |                                                                                                                                                                                   |
| * Attribute2+     | String(200)            | 0..n        |                                                                                                                                                                                   |
| * Attribute3+     | String(200)            | 0..n        |                                                                                                                                                                                   |
| * Attribute4+     | String(200)            | 0..n        |                                                                                                                                                                                   |
| * BccUserId       | String                 | 0..n        | UserId(s) of BCC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                              |
| * CcUserId        | String                 | 0..n        | UserId(s) of CC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                               |
| * Confidential    | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail |
| * MailBody        | String(2GB)            | 0..1        |                                                                                                                                                                                   |
| * MailSubject*    | String(250)            | 1           |                                                                                                                                                                                   |
| * MailTypeId*     | Integer(32-bit signed) | 1           |                                                                                                                                                                                   |
| * ReasonForIssue+ | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                   |

|                             |                           |      |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|---------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * ResponseReq<br>uired+     | Integer(32-bit<br>signed) | 0..1 |                                                                                                                                                                                                                                                                                                                                                                                                     |
| * ResponseReq<br>uiredDate  | String                    | 0..1 | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-ddT'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                                                  |
| * RichMailText*             | Boolean                   | 1    | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, ie Set to plain text                                                                                                                                                                                                                                                        |
| * TotalAttachme<br>ntCount* | Integer(32-bit<br>signed) | 1    | The number of attachments expected in this correspondence. This value is verified against the total number of<br>"parts" included in the request. A value of '0' if the correspondence contains no attachments.                                                                                                                                                                                     |
| * ToUserId*                 | String                    | 0..n | UserId(s) of TO recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be<br>added automatically by the rule.                                                                                                                                                                                                                                              |
| * MailFormFiel<br>ds+       | Group                     | 0..1 | Mail Form field values.                                                                                                                                                                                                                                                                                                                                                                             |
| ** MailFormFie<br>ld+       | String                    | 0..n | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"> <li>• boolean: true, false</li> <li>• number: 123, 145.3, -45 etc</li> <li>• date: yyyy-mm-dd e.g. 2014-02-23</li> <li>• singleLineText: single line of text</li> <li>• multiLineText: text separated by newline characters</li> <li>• singleSelect: option text</li> <li>• multiSelect: option text</li> </ul>  |
| ** identifier*              | Attribute                 | 1    | Mail Form field identifier                                                                                                                                                                                                                                                                                                                                                                          |
| * RestrictedField<br>S+     | Group                     | 0..1 | Restricted field values.                                                                                                                                                                                                                                                                                                                                                                            |
| ** RestrictedField+         | String                    | 0..n | Restricted field value. Allowed values per type: <ul style="list-style-type: none"> <li>• boolean: true, false</li> <li>• number: 123, 145.3, -45 etc</li> <li>• date: yyyy-mm-dd e.g. 2014-02-23</li> <li>• singleLineText: single line of text</li> <li>• multiLineText: text separated by newline characters</li> <li>• singleSelect: option text</li> <li>• multiSelect: option text</li> </ul> |
| ** identifier*              | Attribute                 | 1    | Restricted field identifier                                                                                                                                                                                                                                                                                                                                                                         |
| ExistingMailId              | String                    | 0..1 | existing Draft mailId identifier                                                                                                                                                                                                                                                                                                                                                                    |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

Refer to the sample request(s) below for further detail.

### Specifying Header for API Version 3

The Content-Type header of the entire payload must be "multipart/mixed".

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v3+xml", and **there must be an empty line** between the header and the XML payload.

### Sample request

<https://au1.aconex.com/api/projects/1879048422/mail/1879049444/forward>

```
[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary
Content-Type: application/vnd.aconex.mail.v3+xml

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>

<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>5</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_cpaymentdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_cjob_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_cexperience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_csatisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-1</RestrictedField>

  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-
Option-2</RestrictedField>
  <RestrictedField identifier="restricted_ccommute_number_length_kilometre">25</RestrictedField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary
.....
```

#### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">

  <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

All the below validations has been suppressed now except Recipient userId validation.

#### Sample Validation Error response

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
  <Error>
    <ErrorCode>VALIDATION_FAILED</ErrorCode>
    <ErrorDescription>Validation failed!</ErrorDescription>
    <RequestID>kcdzj7xl</RequestID>
    <SystemTime>2020-07-09T09:20:13.831+10:00</SystemTime>
    <Fields>
      <MailFormFields>
        <Field>
          <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
          <FieldName>completed_boolean</FieldName>
          <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
        </Field>
        <Field>
          <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
          <FieldName>Z_boolean</FieldName>
          <ErrorMessage>Provided value is not valid for field Z_boolean</ErrorMessage>
        </Field>
      </MailFormFields>
      <Field>
        <ErrorCode>MISSING_MANDATORY_FIELD</ErrorCode>
        <FieldName>MailSubject</FieldName>
        <ErrorMessage>Valid value not provided for Mandatory field MailSubject</ErrorMessage>
      </Field>
      <RestrictedFields>
        <Field>
          <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
          <FieldName>completed_boolean</FieldName>
          <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
        </Field>
      </RestrictedFields>
    </Fields>
  </Error>

```

#### Sample Error Response (Falling outside Validation Errors)

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>LOGIN_FAILED</ErrorCode>
  <ErrorDescription>Login failed - username or password incorrect</ErrorDescription>

  <RequestID>if6e2vpa</RequestID>
  <SystemTime>2020-07-28T16:27:37.364+10:00</SystemTime>
</Error>

```

#### Saving to Drafts

To save to drafts, add the optional query parameter `is_draft` with value 'true' like the sample below:

[https://au1.aconex.com/api/projects/1879048422/mail/1879049444/forward?is\\_draft=true](https://au1.aconex.com/api/projects/1879048422/mail/1879049444/forward?is_draft=true)

The request payload as below adding ExistingMailId, and the response comes with **sendStatus="Drafted"** for the **SendMailResult** element.

```

[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary
Content-Type: application/vnd.aconex.mail.v3+xml

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>

<ExistingMailId>1879065872</ExistingMailId>
<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>5</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_cpaymentdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_cjob_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_cexperience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_csatisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-1</RestrictedField>

  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-
Option-2</RestrictedField>
  <RestrictedField identifier="restricted_ccommute_number_length_kilometre">25</RestrictedField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary
.....

```

#### Sample response

```

<?xml version="1.0" encoding="UTF-8"?>

<SendMailResult sendStatus="Drafted">
  <NewMailId>1879053577</NewMailId>
</SendMailResult>

```

#### Error Codes Specific to the Service

| Status Code | Description | HTTP Status Code |
|-------------|-------------|------------------|
|-------------|-------------|------------------|

|                                       |                                                                                                                                                                |                 |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| BAD_BASE64_DATA                       | The base64 data for the file <filename> was found to be invalid...                                                                                             | 400 Bad Request |
| NO_RECIPIENTS                         | No recipients to send mail to specified                                                                                                                        | 400 Bad Request |
| INVALID_RECIPIENTS                    | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                            | 400 Bad Request |
| INVALID_RECIPIENTS                    | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                                  | 400 Bad Request |
| INVALID_ATTACHMENT_COUNT              | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments        | 400 Bad Request |
| INVALID_FIELD_VALUE                   | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                               | 400 Bad Request |
| UNEXPECTED_FIELD_VALUE                | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                                | 400 Bad Request |
| FIELD_LENGTH_EXCEEDED                 | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                             | 400 Bad Request |
| FIELD_LENGTH_TOO_SHORT                | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                             | 400 Bad Request |
| DUPLICATED_FIELD                      | Provided mail form custom fields / restricted fields with same identifier                                                                                      | 400 Bad Request |
| INVALID_FIELD_IDENTIFIER              | Provided mail form field / restricted field which is not associated with this mail type or provided restricted field that does not belong to this organisation | 400 Bad Request |
| VALIDATION_FAILED                     | One or more form fields validation failed due to invalid values                                                                                                | 400 Bad Request |
| DISTRIBUTION_RULE_RESTRICTION_UPDATED | Mail Distribution Restriction value has been updated                                                                                                           | 400 Bad Request |

## Register Mail

### Register Mail (Version 3)

The service registers a new mail item on behalf of another user, in the specified project.

#### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name      | Type (maxlength) | Cardinality | Notes                                                                                                                                                                             |
|-----------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail            | Group            | 1           |                                                                                                                                                                                   |
| * AttachedDocId | String           | 0..n        |                                                                                                                                                                                   |
| * Attribute1+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute2+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute3+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute4+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * BccUserId     | String           | 0..n        | UserId(s) of BCC recipient. Can only be users within the same organization as the authorizing user.                                                                               |
| * CcUserId      | String           | 0..n        | UserId(s) of CC recipient. Can only be users within the same organization as the authorizing user.                                                                                |
| * Confidential  | Boolean          | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail |
| * FromUserId*   | String           | 1           | UserId of the user that this mail is registered on behalf of. As the cardinality suggests, only a single From User may be specified                                               |
| * MailBody      | String(2GB)      | 0..1        | If body contains HTML or special characters, the content must be escaped or enclosed in a CDATA tag: For e.g. <![CDATA[<h1>Test Header </h1><b>test mail ]]>                      |
| * MailSubject*  | String(250)      | 1           |                                                                                                                                                                                   |

|                         |                        |      |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * MailTypeId*           | Integer(32-bit signed) | 1    |                                                                                                                                                                                                                                                                                                                                                                |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1 |                                                                                                                                                                                                                                                                                                                                                                |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1 |                                                                                                                                                                                                                                                                                                                                                                |
| * ResponseRequiredDate  | String                 | 0..1 | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                            |
| * RichMailText*         | Boolean                | 1    | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text                                                                                                                                                                                                                        |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1    | Value of '0' if no the correspondence contains no attachments                                                                                                                                                                                                                                                                                                  |
| * ToUserId*             | String                 | 1..n | UserId(s) of TO recipient. Can only be users within the same organization as the authorizing user.                                                                                                                                                                                                                                                             |
| * MailFormFields+       | Group                  | 0..1 | Mail Form field values.                                                                                                                                                                                                                                                                                                                                        |
| ** MailFormField+       | String                 | 0..n | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"> <li>• boolean: true, false</li> <li>• number: 123, 145.3, -45 etc</li> <li>• date: yyyy-mm-dd e.g. 2014-02-23</li> <li>• singleLineText: single line of text</li> <li>• multiLineText: text separated by newline characters</li> <li>• singleSelect: option text</li> </ul> |
| ** identifier*          | Attribute              | 1    | Mail Form field identifier                                                                                                                                                                                                                                                                                                                                     |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Specifying Header for API Version 3

The Content-Type header of the entire payload must be "multipart/mixed".

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v3+xml", and **there must be an empty line** between the header and the XML payload.

### Sample request

<https://au1.aconex.com/api/projects/1879048422/mail/>

[HTTP Header]

Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]

--myboundary

Content-Type: application/vnd.aconex.mail.v3+xml

```
<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<FromUserId>1879049257</FromUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>
<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>0</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
</MailFormFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary--
```

#### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
  <SendMailResult sendStatus="MailSent">

    <NewMailId>1879053577</NewMailId>
  </SendMailResult>
```

#### Sample Validation Error Response

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>VALIDATION_FAILED</ErrorCode>
  <ErrorDescription>Validation failed!</ErrorDescription>
  <RequestID>kcdzj7xl</RequestID>
  <SystemTime>2020-07-09T09:20:13.831+10:00</SystemTime>
  <Fields>
    <MailFormFields>
      <Field>
        <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
        <FieldName>completed_boolean</FieldName>
        <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
      </Field>
      <Field>
        <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
        <FieldName>Z_boolean</FieldName>
        <ErrorMessage>Provided value is not valid for field Z_boolean</ErrorMessage>
      </Field>
    </MailFormFields>
    <Field>
      <ErrorCode>MISSING_MANDATORY_FIELD</ErrorCode>
      <FieldName>MailSubject</FieldName>
      <ErrorMessage>Valid value not provided for Mandatory field MailSubject</ErrorMessage>
    </Field>
    <RestrictedFields>
      <Field>
        <ErrorCode>INVALID_FIELD_VALUE</ErrorCode>
        <FieldName>completed_boolean</FieldName>
        <ErrorMessage>Provided value is not valid for field completed_boolean</ErrorMessage>
      </Field>
    </RestrictedFields>
  </Fields>
</Error>

```

#### Sample Error Response (Falling outside Validation Errors)

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>LOGIN_FAILED</ErrorCode>
  <ErrorDescription>Login failed - username or password incorrect</ErrorDescription>

  <RequestID>if6e2vpa</RequestID>
  <SystemTime>2020-07-28T16:27:37.364+10:00</SystemTime>
</Error>

```

#### Error Codes Specific to the Service

| Status Code                   | Description                                                                                         | HTTP Status Code |
|-------------------------------|-----------------------------------------------------------------------------------------------------|------------------|
| Status Code                   | Description                                                                                         | HTTP Status Code |
| BAD_BASE64_DATA               | The base64 data for the file <filename> was found to be invalid...                                  | 400 Bad Request  |
| MISSING_FROM_USER             | From user must be specified                                                                         | 400 Bad Request  |
| MULTIPLE_FROM_USERS_SPECIFIED | Multiple from users specified                                                                       | 400 Bad Request  |
| INVALID_FROM_USER             | The from user specified is invalid                                                                  | 400 Bad Request  |
| NO_RECIPIENTS                 | No recipients to send mail to specified                                                             | 400 Bad Request  |
| INVALID_RECIPIENTS            | One or more of the specified recipients are invalid : A zero or null valued recipient id was given. | 400 Bad Request  |

|                                   |                                                                                                                                                                |                 |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                                  | 400 Bad Request |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : Cannot send to recipients that are not in the same organization                                          | 400 Bad Request |
| INVALID_RECIPIENT_TYPE            | BCC recipient type cannot be specified                                                                                                                         | 400 Bad Request |
| INVALID_FUTURE_DATE               | The date [InvalidDate] for the field [FieldName] must be in the future                                                                                         | 400 Bad Request |
| INVALID_FIELD_VALUE               | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                               | 400 Bad Request |
| UNEXPECTED_FIELD_VALUE            | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                                | 400 Bad Request |
| MULTIPLE_ATTACHMENT_HEADERS_FOUND | Multiple headers received for multipart attachment. Only a single header is expected                                                                           | 400 Bad Request |
| INVALID_ATTACHMENT_COUNT          | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments        | 400 Bad Request |
| CANNOT_ATTACH_LOCAL_FILES         | Cannot attach local files for mail type which is a transmittal                                                                                                 | 400 Bad Request |
| FIELD_LENGTH_EXCEEDED             | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                             | 400 Bad Request |
| FIELD_LENGTH_TOO_SHORT            | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                             | 400 Bad Request |
| DUPLICATED_FIELD                  | Provided mail form custom fields / restricted fields with same identifier                                                                                      | 400 Bad Request |
| INVALID_FIELD_IDENTIFIER          | Provided mail form field / restricted field which is not associated with this mail type or provided restricted field that does not belong to this organisation | 400 Bad Request |
| VALIDATION_FAILED                 | One or more form fields validation failed due to invalid values                                                                                                | 400 Bad Request |

## Aconex Mail Services (version 2)

### View Mail Schema

#### View Mail Schema (Version 2)

This version provides extra link for restricted fields schema. Also the format of mail forms link was changed.

**This API has been deprecated in Version 2. Please use the View Mail Creation Schema and View Mail Search Schema instead.**

#### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element                      | Type (maxlength)      | Cardinality | Notes |
|------------------------------|-----------------------|-------------|-------|
| MailSchema                   | Group                 | 1           |       |
| projectName                  | Attribute String(100) | 1           |       |
| projectId                    | Attribute String      | 1           |       |
| * EntityCreationSchemaFields | Group                 | 1           |       |

|                           |                        |       |                                                                                                                                                                                                                                                                                      |
|---------------------------|------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** MultiValueSchemaField  | Group                  | 0..n  | There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order                                                                                                                                                                   |
| *** Attributes            | Group                  | 1     |                                                                                                                                                                                                                                                                                      |
| **** EntityField          | No type                | 1     |                                                                                                                                                                                                                                                                                      |
| **** MandatoryStatus      | Attribute String       | 1     | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"> <li>MANDATORY</li> <li>NOT_MANDATORY</li> <li>CONDITIONAL</li> </ul>                                                                                     |
| ***** MandatoryRules      | Group                  | 0...n | The child elements of this element describe the rules that make the field mandatory                                                                                                                                                                                                  |
| ***** Rule                | Group                  | 1...n | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                          |
| ***** Identifier          | String                 | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                        |
| ***** SchemaValues        | Group                  | 0...n |                                                                                                                                                                                                                                                                                      |
| ***** SchemaValue         | Group                  | 1...n |                                                                                                                                                                                                                                                                                      |
| ***** Id                  | Integer String         | 1...n | If the field the identifier of the rule refers to is a multi value schema field, this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                |
| *** DataType              | String                 | 1     | One of : <ul style="list-style-type: none"> <li>STRING</li> <li>BOOLEAN</li> <li>RATIO</li> <li>INTEGER</li> <li>DOUBLE</li> <li>LONG</li> <li>DATE</li> <li>COMPLEX</li> </ul>                                                                                                      |
| *** FieldName             | String(No Limit)       | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                     |
| *** Identifier            | String                 | 1     | Identifier to be used when using the field to create a piece of project mail. One of: <ul style="list-style-type: none"> <li>MailTypeId</li> <li>ReasonForIssue</li> <li>ResponseRequired</li> <li>Attribute1</li> <li>Attribute2</li> <li>Attribute3</li> <li>Attribute4</li> </ul> |
| *** SchemaValues          | Group                  | 1     |                                                                                                                                                                                                                                                                                      |
| **** SchemaValue          | Group                  | 0..n  |                                                                                                                                                                                                                                                                                      |
| **** Id                   | Integer(Signed 32 bit) | 0..1  | A valid value for this field                                                                                                                                                                                                                                                         |
| **** Value                | String(60)             | 1     | A string representation for the value                                                                                                                                                                                                                                                |
| **** Links                | Group                  | 0..1  | Currently used for EntityCreationSchemaFields/MultiValueSchemaField with MailTypeId Identifier only                                                                                                                                                                                  |
| ***** Link                | No type                | 0..1  | a link for mail form fields schema or restricted field schema for given mail type (if there are any)                                                                                                                                                                                 |
| ***** rel                 | Attribute              | 1     | Currently should be "mailFormFieldSchema" or "restrictedFieldSchema"                                                                                                                                                                                                                 |
| ***** href                | Attribute              | 1     | URI for mail form fields schema retrieval or restricted field schema retrieval                                                                                                                                                                                                       |
| ** SingleValueSchemaField | Group                  | 0..n  | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                                                                                                                    |
| *** Attributes            | Group                  | 1     |                                                                                                                                                                                                                                                                                      |
| **** EntityField          | No type                | 1     |                                                                                                                                                                                                                                                                                      |
| **** MandatoryStatus      | Attribute String       | 1     | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"> <li>MANDATORY</li> <li>NOT_MANDATORY</li> <li>CONDITIONAL</li> </ul>                                                                                     |

|                          |                           |       |                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ***** Rule               | Group                     | 1...n | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                                                                     |
| ***** Identifier         | String                    | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                                                                   |
| ***** SchemaValues       | Group                     | 0...n |                                                                                                                                                                                                                                                                                                                                                 |
| ***** SchemaValue        | Group                     | 1...n |                                                                                                                                                                                                                                                                                                                                                 |
| *****Id                  | Integer<br>String         | 1...n | If the field the identifier of the rule refers to is a multi value schema field,this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                                                                            |
| *** DataType             | String                    | 1     | One of :<br><ul style="list-style-type: none"><li>• STRING</li><li>• BOOLEAN</li><li>• RATIO</li><li>• INTEGER</li><li>• DOUBLE</li><li>• LONG</li><li>• DATE</li><li>• COMPLEX</li></ul>                                                                                                                                                       |
| *** FieldName            | String(No Limit)          | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                                |
| *** Identifier           | String                    | 1     | Identifier to be used when using the field to create a piece of project mail. One of:<br><ul style="list-style-type: none"><li>• TotalAttachmentCount</li><li>• MailSubject</li><li>• MailBody</li><li>• ToUserId</li><li>• CcUserId</li><li>• BccUserId</li><li>• ResponseRequiredDate</li><li>• Confidential</li><li>• RichMailText</li></ul> |
| * SearchSchemaFields     | Group                     | 1     |                                                                                                                                                                                                                                                                                                                                                 |
| ** MultiValueSchemaField | Group                     | 0..n  | There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order                                                                                                                                                                                                                              |
| *** Attributes           | Group                     | 1     |                                                                                                                                                                                                                                                                                                                                                 |
| **** SearchResultField   | No type                   | 0..1  | The presence of this element indicates that the field may be returned in search results                                                                                                                                                                                                                                                         |
| **** sortable            | Attribute<br>Boolean      | 1     | Determines if the field may be used to sort the search results                                                                                                                                                                                                                                                                                  |
| **** SearchableField     | No type                   | 0..1  | The presence of this element indicates that the field may be used as a search parameter                                                                                                                                                                                                                                                         |
| *** DataType             | String                    | 1     | One of:<br><ul style="list-style-type: none"><li>• STRING</li><li>• BOOLEAN</li><li>• RATIO</li><li>• INTEGER</li><li>• DOUBLE</li><li>• LONG</li><li>• DATE</li><li>• COMPLEX</li></ul>                                                                                                                                                        |
| *** FieldName            | String(No Limit)          | 0..1  | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                                |
| *** Identifier           | String                    | 0..1  | Identifier to be used as values for parameters when using the API service to search for Mail                                                                                                                                                                                                                                                    |
| *** SchemaValues         | Group                     | 1     |                                                                                                                                                                                                                                                                                                                                                 |
| **** SchemaValue         | Group                     | 0..n  |                                                                                                                                                                                                                                                                                                                                                 |
| **** Id                  | Integer(Signed<br>32 bit) | 0..1  | A valid value for this field                                                                                                                                                                                                                                                                                                                    |
| ***** Value              | String(60)                | 1     | A string representation for the value                                                                                                                                                                                                                                                                                                           |

|                           |                   |      |                                                                                                                                                                                                |
|---------------------------|-------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** SingleValueSchemaField | Group             | 0..n | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                              |
| *** Attributes            | Group             | 1    |                                                                                                                                                                                                |
| **** SearchResultField    | No type           | 0..1 | The presence of this element indicates that the field may be returned in search results                                                                                                        |
| **** sortable             | Attribute Boolean | 1    | Determines if the field may be used to sort the search results                                                                                                                                 |
| **** SearchableField      | No type           | 0..1 | The presence of this element indicates that the field may be used as a search parameter                                                                                                        |
| *** DataType              | String            | 1    | One of: <ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul> |
| *** FieldName             | String(No Limit)  | 1    | Field (label) name used in the application, for display purposes                                                                                                                               |
| *** Identifier            | String(60)        | 1    | Identifier to be used as values for parameters when using the API service to search for mail                                                                                                   |

#### Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
<MailSchema projectName="Hotel VIP Resort" projectId="1879048400">
  <EntityCreationSchemaFields>
    <MultiValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
      </Attributes>
      <DataType>INTEGER</DataType>
      <FieldName>Mail Types</FieldName>
      <Identifier>MailTypeId</Identifier>
      <SchemaValues>
        <SchemaValue>
          <Id>1879048520</Id>
          <Value>Contractors Advice</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048279</Id>
          <Value>Design Advice</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048516</Id>
          <Value>Internal Memorandum</Value>
          <!-- THIS IS NEW -->
          <Links>
            <Link rel="mailFormFieldSchema" href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048516/schema" />
            <Link rel="restrictedFieldSchema" href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/1879048516/schema" />
          </Links>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048497</Id>
          <Value>Non Conformance Report</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048521</Id>
          <Value>Notice</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>180</Id>
          <Value>Rejection Notice</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>10</Id>
          <Value>Request For Information</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048206</Id>
          <Value>Site Instruction</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>256</Id>
          <Value>Tender Transmittal</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>23</Id>
          <Value>Transmittal</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048208</Id>
          <Value>Variation</Value>
        </SchemaValue>
      </SchemaValues>
    </MultiValueSchemaField>
  </EntityCreationSchemaFields>
  <SearchSchemaFields>
    .....
  </SearchSchemaFields>
</MailSchema>

```

**View Mail Search Schema**

**View Mail Search Schema (Version 2)**

This service returns the mail search schema for the specified project's mail.

It provides information about performing a mail search. Fields may be used to construct a Lucene search query, filter search results, and to specify which fields return in the search results by making use of the field identifier.

The search schema fields describe identifiers to use for specific fields when performing searches. The mail searching service allows a Lucene query to filter results, and just as with "Configurable Fields" in Aconex, allows a caller to specify return fields in the search results. A fields identifier can be used in the Lucene query where the field has a 'Searchable' element, otherwise if the field has a 'SearchResultField' element, it can be requested in the search result response for each result.

## URL structure

```
HTTPS GET: https://{hostname}/api/projects/{projectid}/mail/schema/search
```

## Parameters

There are no query parameters required for this service.

## Request Fields

Not Applicable. HTTP GET operations have no request body.

## Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/schema/search
```

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element                  | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                 |
|--------------------------|------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SearchMailSchema         | Group                  | 1           |                                                                                                                                                                                       |
| * MultiValueSchemaField  | Group                  | 0..n        | There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order                                                                    |
| ** Attributes            | Group                  | 1           |                                                                                                                                                                                       |
| *** SearchResultField    | No type                | 0..1        | The presence of this element indicates that the field may be returned in search results                                                                                               |
| *** sortable             | Attribute Boolean      | 1           | Determines if the field may be used to sort the search results                                                                                                                        |
| *** SearchableField      | No type                | 0..1        | The presence of this element indicates that the field may be used as a search parameter                                                                                               |
| ** DataType              | String                 | 1           | One of: <ul style="list-style-type: none"><li>• STRING</li><li>• BOOLEAN</li><li>• RATIO</li><li>• INTEGER</li><li>• DOUBLE</li><li>• LONG</li><li>• DATE</li><li>• COMPLEX</li></ul> |
| ** FieldName             | String(No Limit)       | 0..1        | Field (label) name used in the application, for display purposes                                                                                                                      |
| ** Identifier            | String                 | 0..1        | Identifier to be used as values for parameters when using the API service to search for Mail                                                                                          |
| ** SchemaValues          | Group                  | 1           |                                                                                                                                                                                       |
| *** SchemaValue          | Group                  | 0..n        |                                                                                                                                                                                       |
| **** Id                  | Integer(Signed 32 bit) | 0..1        | A valid value for this field                                                                                                                                                          |
| **** Value               | String(60)             | 1           | A string representation for the value                                                                                                                                                 |
| * SingleValueSchemaField | Group                  | 0..n        | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                     |
| ** Attributes            | Group                  | 1           |                                                                                                                                                                                       |
| *** SearchResultField    | No type                | 0..1        | The presence of this element indicates that the field may be returned in search results                                                                                               |

|                     |                   |      |                                                                                                                                                                                                |
|---------------------|-------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** sortable        | Attribute Boolean | 1    | Determines if the field may be used to sort the search results                                                                                                                                 |
| *** SearchableField | No type           | 0..1 | The presence of this element indicates that the field may be used as a search parameter                                                                                                        |
| ** DataType         | String            | 1    | One of: <ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul> |
| ** FieldName        | String(No Limit)  | 1    | Field (label) name used in the application, for display purposes                                                                                                                               |
| ** Identifier       | String(60)        | 1    | Identifier to be used as values for parameters when using the API service to search for mail                                                                                                   |

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SearchMailSchema>
  <SingleValueSchemaField>
    <Attributes>
      <SearchResultField sortable="false"/>
    </Attributes>
    <DataType>COMPLEX</DataType>
    <FieldName>From</FieldName>
    <Identifier>fromUserDetails</Identifier>
  </SingleValueSchemaField>
  <SingleValueSchemaField>
    <Attributes>
      <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>To</FieldName>
    <Identifier>touserfullname</Identifier>
  </SingleValueSchemaField>
  <MultiValueSchemaField>
    <Attributes>
      <SearchResultField sortable="false"/>
      <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Attribute 1</FieldName>
    <Identifier>attribute</Identifier>
    <SchemaValues>
      <SchemaValue>
        <Value>Administration</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>Events Centre</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>Marina</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>North Tower Hotel</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>Podium</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>Retail Building</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>South Tower Hotel</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>Spa Building</Value>
      </SchemaValue>
    </SchemaValues>
  </MultiValueSchemaField>
  <SingleValueSchemaField>
    <Attributes>
```

```

        <SearchableField/>
    </Attributes>
    <DataType>DATE</DataType>
    <FieldName>Closed Out</FieldName>
    <Identifier>closedoutdate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true"/>
        <SearchableField/>
    </Attributes>
    <DataType>DATE</DataType>
    <FieldName>Sent Date</FieldName>
    <Identifier>sentdate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="false"/>
    </Attributes>
    <DataType>COMPLEX</DataType>
    <FieldName>Closed Out Details</FieldName>
    <Identifier>closedoutdetails</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true"/>
        <SearchableField/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Reason for Issue</FieldName>
    <Identifier>reasonforissueid</Identifier>
    <SchemaValues>
        <SchemaValue>
            <Id>1</Id>
            <Value>Issued for Approval</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>2</Id>
            <Value>Issued for Construction</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>4</Id>
            <Value>Issued for Information</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>7</Id>
            <Value>Issued for Review</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>8</Id>
            <Value>Issued for Tender</Value>
        </SchemaValue>
    </SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Body</FieldName>
    <Identifier>corrdata</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true"/>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Subject</FieldName>
    <Identifier>subject</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
    <Attributes>
        <SearchResultField sortable="false"/>
        <SearchableField/>
    </Attributes>
    <DataType>INTEGER</DataType>

```

```

<FieldName>Status</FieldName>
<Identifier>tostatusid</Identifier>
<SchemaValues>
  <SchemaValue>
    <Id>2</Id>
    <Value>Outstanding</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>3</Id>
    <Value>N/A</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>5</Id>
    <Value>Closed- Out</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>7</Id>
    <Value>Responded</Value>
  </SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchResultField sortable="false"/>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Number of attached documents</FieldName>
  <Identifier>attachedDocumentCount</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <SearchResultField sortable="true"/>
    <SearchableField/>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Mail Types</FieldName>
  <Identifier>corrtypeid</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Id>1</Id>
      <Value>Architect's Advice</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048316</Id>
      <Value>Client Advice</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048522</Id>
      <Value>Consultants Advice Notice</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048520</Id>
      <Value>Contractors Advice</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048519</Id>
      <Value>Design Change Request</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>76</Id>
      <Value>Document Share Advice</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048510</Id>
      <Value>Inspection Request</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048516</Id>
      <Value>Internal Memorandum</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048222</Id>
      <Value>Meeting Minutes</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048497</Id>
      <Value>Non Conformance Report</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>

```

```

        </SchemaValue>
        <SchemaValue>
            <Id>1879048521</Id>
            <Value>Notice</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048284</Id>
            <Value>Notice of Meeting</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>180</Id>
            <Value>Rejection Notice</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>10</Id>
            <Value>Request For Information</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048206</Id>
            <Value>Site Instruction</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048512</Id>
            <Value>Subcontractors Advice</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>401</Id>
            <Value>Supplier Document Transmittal</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>256</Id>
            <Value>Tender Transmittal</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>23</Id>
            <Value>Transmittal</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048208</Id>
            <Value>Variation</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>2003</Id>
            <Value>Variation Approval - CA</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>2002</Id>
            <Value>Variation Rejection - CA</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048270</Id>
            <Value>Variation Request</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>2001</Id>
            <Value>Variation Request - CA</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048310</Id>
            <Value>Workflow Notification</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>400</Id>
            <Value>Workflow Transmittal</Value>
        </SchemaValue>
    </SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="false"/>
    </Attributes>
    <DataType>LONG</DataType>
    <FieldName>Total file size of all attachments</FieldName>
    <Identifier>totalAttachmentsSize</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>

```

```

        <SearchResultField/>
    </Attributes>
    <DataType>BOOLEAN</DataType>
    <FieldName>No Action Required</FieldName>
    <Identifier>noninitiatornoactionrequired</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>From</FieldName>
    <Identifier>fromuserfullname</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
    <Attributes>
        <SearchResultField sortable="false"/>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Attribute 2</FieldName>
    <Identifier>secondaryattribute</Identifier>
    <SchemaValues>
        <SchemaValue>
            <Value>WP1.01 - Piling</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.02 - Sheet Piling & Retaining Walls</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.03 - Bulk Excavation (inc. Pile Mat & Probing)</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.04 - Ground Works (inc. Grade Concrete Slab)</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.05 - Superstructure Concrete</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP2.02 - Structural Steelwork</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP2.03 - Metal Decking</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP2.04 - Underground Drainage</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.01 - Cladding</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.02 - Planar Glazing</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.03 - Rain Screen Cladding</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.05 - Glazed Roof</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.07 - Fire System</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.08 - Alarm System</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.09 - Electrical Fitout</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.10 - Plumbing</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.01 - Builders Clean</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.02 - Dry Lining</Value>
        </SchemaValue>
    </SchemaValues>

```

```

        </SchemaValue>
        <SchemaValue>
            <Value>WP4.03 - Plaster & Screeding</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.04 - Suspended Ceilings</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.05 - Stone Floor Finishes</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.06 - Ceramic Tiling</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.07 - Carpets/Timbers/Vinyl Flooring</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.08 - Painting & Decoration</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.09 - Signage</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.10 - Artwork/Statues</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.11 - Internal Fitout</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP5.01 - Internal Electrical Installation</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP5.02 - Mains Electrical Supply</Value>
        </SchemaValue>
    </SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>To Organization Name</FieldName>
    <Identifier>totradingname</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true"/>
    </Attributes>
    <DataType>BOOLEAN</DataType>
    <FieldName>Confidential</FieldName>
    <Identifier>confidential</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>From Organization Name</FieldName>
    <Identifier>fromtradingname</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true"/>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Mail No</FieldName>
    <Identifier>docno</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true"/>
        <SearchableField/>
    </Attributes>
    <DataType>DATE</DataType>
    <FieldName>Due</FieldName>
    <Identifier>responsedate</Identifier>

```

```

</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchResultField sortable="false"/>
  </Attributes>
  <DataType>COMPLEX</DataType>
  <FieldName>Recipients</FieldName>
  <Identifier>mailRecipients</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchResultField sortable="true"/>
    <SearchableField/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Reference Number</FieldName>
  <Identifier>inreftomailno</Identifier>
</SingleValueSchemaField>
</SearchMailSchema>

```

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

## View Mail Creation Schema

### View Mail Creation Schema (Version 2)

This service returns the mail schema to create new mail in the specified project.

It provides information about fields used to create a new mail.

Note that the Mail Type field values in this API just include mail types that are allowed for creating new mail. This is different from the View Mail Schema which returns all the mail types allowed to use in a project.

## URL structure

```
HTTPS GET: https://{hostname}/api/projects/{projectid}/mail/schema/creation
```

## Parameters

There are no query parameters required for this service.

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/schema/creation
```

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*s indicate the parent-child depth.

| Element                     | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                                                                                                                              |
|-----------------------------|------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ComposeMailSchema           | Group                  | 1           |                                                                                                                                                                                                                                                                                                    |
| *MultiValueSchemaField      | Group                  | 0..n        | There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order                                                                                                                                                                                 |
| ** Attributes               | Group                  | 1           |                                                                                                                                                                                                                                                                                                    |
| *** EntityField             | No type                | 1           |                                                                                                                                                                                                                                                                                                    |
| *** MandatoryStatus         | Attribute String       | 1           | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"> <li>• MANDATORY</li> <li>• NOT_MANDATORY</li> <li>• CONDITIONAL</li> </ul>                                                                                             |
| **** MandatoryRules         | Group                  | 0...n       | The child elements of this element describe the rules that make the field mandatory                                                                                                                                                                                                                |
| ***** Rule                  | Group                  | 1...n       | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                        |
| ***** Identifier            | String                 | 1           | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                      |
| ***** SchemaValues          | Group                  | 0...n       |                                                                                                                                                                                                                                                                                                    |
| ***** SchemaValue           | Group                  | 1...n       |                                                                                                                                                                                                                                                                                                    |
| *****Id                     | Integer String         | 1...n       | If the field the identifier of the rule refers to is a multi value schema field,this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                               |
| ** DataType                 | String                 | 1           | One of : <ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul>                                                                                                    |
| ** FieldName                | String(No Limit)       | 1           | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                   |
| ** Identifier               | String                 | 1           | Identifier to be used when using the field to create a piece of project mail. One of: <ul style="list-style-type: none"> <li>• MailTypeId</li> <li>• ReasonForIssue</li> <li>• ResponseRequired</li> <li>• Attribute1</li> <li>• Attribute2</li> <li>• Attribute3</li> <li>• Attribute4</li> </ul> |
| ** SchemaValues             | Group                  | 1           |                                                                                                                                                                                                                                                                                                    |
| *** SchemaValue             | Group                  | 0..n        |                                                                                                                                                                                                                                                                                                    |
| **** Id                     | Integer(Signed 32 bit) | 0..1        | A valid value for this field                                                                                                                                                                                                                                                                       |
| **** Value                  | String(60)             | 1           | A string representation for the value                                                                                                                                                                                                                                                              |
| **** DefaultResponseDueDate | Date(In UTC format)    | 0..1        | Default Response date for the configured mail types.                                                                                                                                                                                                                                               |
| **** Links                  | Group                  | 0..1        | Currently used for ComposeMailSchema/MultiValueSchemaField with MailTypeId Identifier only                                                                                                                                                                                                         |
| ***** Link                  | No type                | 0..n        | a link for mail form fields schema or restricted field schema for given mail type (if there are any)                                                                                                                                                                                               |
| ***** rel                   | Attribute              | 1           | Currently should be "mailFormFieldSchema" or "restrictedFieldSchema"                                                                                                                                                                                                                               |
| ***** href                  | Attribute              | 1           | URI for mail form fields schema retrieval or restricted field schema retrieval                                                                                                                                                                                                                     |
| *SingleValueSchemaField     | Group                  | 0..n        | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                                                                                                                                  |
| ** Attributes               | Group                  | 1           |                                                                                                                                                                                                                                                                                                    |
| *** EntityField             | No type                | 1           |                                                                                                                                                                                                                                                                                                    |

|                                 |                  |       |                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** MandatoryStatus             | Attribute String | 1     | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"> <li>MANDATORY</li> <li>NOT_MANDATORY</li> <li>CONDITIONAL</li> </ul>                                                                                                                                     |
| **** Rule                       | Group            | 1...n | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                                                          |
| ***** Identifier                | String           | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                                                        |
| ***** SchemaValues              | Group            | 0...n |                                                                                                                                                                                                                                                                                                                                      |
| ***** SchemaValue               | Group            | 1...n |                                                                                                                                                                                                                                                                                                                                      |
| *****Id                         | Integer String   | 1...n | If the field the identifier of the rule refers to is a multi value schema field,this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                                                                 |
| ** DataType                     | String           | 1     | One of : <ul style="list-style-type: none"> <li>STRING</li> <li>BOOLEAN</li> <li>RATIO</li> <li>INTEGER</li> <li>DOUBLE</li> <li>LONG</li> <li>DATE</li> <li>COMPLEX</li> </ul>                                                                                                                                                      |
| ** FieldName                    | String(No Limit) | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                     |
| ** Identifier                   | String           | 1     | Identifier to be used when using the field to create a piece of project mail. One of: <ul style="list-style-type: none"> <li>TotalAttachmentCount</li> <li>MailSubject</li> <li>MailBody</li> <li>ToUserId</li> <li>CcUserId</li> <li>BccUserId</li> <li>ResponseRequiredDate</li> <li>Confidential</li> <li>RichMailText</li> </ul> |
| * MailTypes                     | Group            | 0...1 | Define configuration of mail types which are available in the current context.                                                                                                                                                                                                                                                       |
| ** MailType                     | Group            | 0...n | Define configuration of this mail type. Each "MailType" maps to a "SchemaValue" of the "MailTypeId" field.                                                                                                                                                                                                                           |
| ** id                           | Attribute        | 1     | The id of this mail type. This value matches the id of "SchemaValue" of "MailTypeId" field.                                                                                                                                                                                                                                          |
| ** displayName                  | Attribute        | 1     | Display name of this mail type.                                                                                                                                                                                                                                                                                                      |
| *** MailAutoDistribution        | Group            | 1     | Define configuration of mail auto distribution for this mail type.                                                                                                                                                                                                                                                                   |
| *** enabled                     | Attribute        | 1     | Indicates whether mail auto distribution is enabled for this mail type or not.                                                                                                                                                                                                                                                       |
| *** MailDistributionRestriction | Group            | 1     | Define configuration of mail distribution restriction setting for this mail type.                                                                                                                                                                                                                                                    |
| *** enabled                     | Attribute        | 1     | Indicates if mail distribution restriction is enabled for the mail type.                                                                                                                                                                                                                                                             |

#### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ComposeMailSchema>
  <SingleValueSchemaField>
    <Attributes>
      <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Body</FieldName>
    <Identifier>MailBody</Identifier>
  </SingleValueSchemaField>
  <MultiValueSchemaField>
    <Attributes>
      <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Mail Types</FieldName>
```

```

<Identifier>MailTypeId</Identifier>
<SchemaValues>
  <SchemaValue>
    <DefaultResponseDueDate>2019-10-29T06:57:42.284Z</DefaultResponseDueDate>
    <Id>1879048522</Id>
    <Value>Consultants Advice Notice</Value>
  </SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="CONDITIONAL">
      <MandatoryRules>
        <Rule>
          <Identifier>MailTypeId</Identifier>
          <SchemaValues>
            <SchemaValue>
              <Id>256</Id>
            </SchemaValue>
            <SchemaValue>
              <Id>23</Id>
            </SchemaValue>
          </SchemaValues>
        </Rule>
      </MandatoryRules>
    </EntityField>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Reason for Issue</FieldName>
  <Identifier>ReasonForIssue</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Id>1</Id>
      <Value>Issued for Approval</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>2</Id>
      <Value>Issued for Construction</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048193</Id>
      <Value>Issued for Coordination</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>4</Id>
      <Value>Issued for Information</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>7</Id>
      <Value>Issued for Review</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>8</Id>
      <Value>Issued for Tender</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Attribute 2</FieldName>
  <Identifier>Attribute2</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Value>WP3.04 - Gutters</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.03 - Rain Screen Cladding</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.03 - Plaster & Screeding</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP2.03 - Metal Decking</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>

```

```

<SchemaValue>
  <Value>WP4.09 - Signage</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.08 - Painting & Decoration</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP2.04 - Underground Drainage</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.10 - Plumbing</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.08 - Alarm System</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP5.01 - Internal Electrical Installation</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.11 - Internal Fitout</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.05 - Glazed Roof</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.01 - Builders Clean</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.03 - Bulk Excavation (inc. Pile Mat & Probing)</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.10 - Artwork/Statues</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.02 - Dry Lining</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.06 - Podium Mesh Cladding</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.07 - Fire System</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.04 - Ground Works (inc. Grade Concrete Slab)</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.05 - Superstructure Concrete</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.04 - Suspended Ceilings</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP5.02 - Mains Electrical Supply</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.02 - Planar Glazing</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.02 - Sheet Piling & Retaining Walls</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.01 - Cladding</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.07 - Carpets/Timbers/Vinyl Flooring</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.06 - Ceramic Tiling</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.01 - Piling</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.09 - Electrical Fitout</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.05 - Stone Floor Finishes</Value>

```

```

        </SchemaValue>
        <SchemaValue>
          <Value>WP2.02 - Structural Steelwork</Value>
        </SchemaValue>
      </SchemaValues>
    </MultiValueSchemaField>
    <MultiValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
      </Attributes>
      <DataType>INTEGER</DataType>
      <FieldName>Mail Types</FieldName>
      <Identifier>MailTypeId</Identifier>
      <SchemaValues>
        <SchemaValue>
          <Id>1879048516</Id>
          <Links>
            <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048516/schema"/>
            <Link rel="restrictedFieldsSchema" href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/1879048516/schema"/>
          </Links>
          <Value>Internal Memorandum</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048222</Id>
          <Links>
            <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048222/schema"/>
          </Links>
          <Value>Meeting Minutes</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048284</Id>
          <Value>Notice of Meeting</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>10</Id>
          <Value>Request For Information</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048512</Id>
          <Links>
            <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048512/schema"/>
          </Links>
          <Value>Subcontractors Advice</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>256</Id>
          <Value>Tender Transmittal</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>23</Id>
          <Value>Transmittal</Value>
        </SchemaValue>
      </SchemaValues>
    </MultiValueSchemaField>
    <SingleValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
      </Attributes>
      <DataType>BOOLEAN</DataType>
      <FieldName>Confidential</FieldName>
      <Identifier>Confidential</Identifier>
    </SingleValueSchemaField>
    <MultiValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
      </Attributes>
      <DataType>STRING</DataType>
      <FieldName>Attribute 1</FieldName>
      <Identifier>Attribute1</Identifier>
      <SchemaValues>
        <SchemaValue>
          <Value>North Tower Hotel</Value>
        </SchemaValue>

```

```

        <SchemaValue>
            <Value>Events Centre</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Administration</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Spa Building</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>South Tower Hotel</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Retail Building</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Marina</Value>
        </SchemaValue>
    </SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="CONDITIONAL">
            <MandatoryRules>
                <Rule>
                    <Identifier>ResponseRequired</Identifier>
                </Rule>
            </MandatoryRules>
        </EntityField>
    </Attributes>
    <DataType>DATE</DataType>
    <FieldName>Response Required Date</FieldName>
    <Identifier>ResponseRequiredDate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Cc</FieldName>
    <Identifier>CcUserId</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Total attachment count</FieldName>
    <Identifier>TotalAttachmentCount</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Rich Text</FieldName>
    <Identifier>RichMailText</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Subject</FieldName>
    <Identifier>MailSubject</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>To</FieldName>
    <Identifier>ToUserId</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>

```

```

</Attributes>
<DataType>INTEGER</DataType>
<FieldName>Response required</FieldName>
<Identifier>ResponseRequired</Identifier>
<SchemaValues>
  <SchemaValue>
    <Id>1</Id>
    <Value>Respond by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>2</Id>
    <Value>Approve by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>3</Id>
    <Value>Submit comments by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>4</Id>
    <Value>Revise and re-submit by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>5</Id>
    <Value>Submit quotation by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>6</Id>
    <Value>Fabricate in accordance with drawings and deliver by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>7</Id>
    <Value>Tender due by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>8</Id>
    <Value>Acknowledge by</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>9</Id>
    <Value>Action by</Value>
  </SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY"/>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Bcc</FieldName>
  <Identifier>BccUserId</Identifier>
</SingleValueSchemaField>
<MailTypes>
  <MailType id="1879048516" displayname="Internal Memorandum">
    <MailAutoDistribution enabled="true"></MailAutoDistribution>
    <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
  </MailType>
  <MailType id="1879048222" displayname="Meeting Minutes">
    <MailAutoDistribution enabled="false"></MailAutoDistribution>
    <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
  </MailType>
  <MailType id="1879048284" displayname="Notice of Meeting">
    <MailAutoDistribution enabled="false"></MailAutoDistribution>
    <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
  </MailType>
  <MailType id="10" displayname="Request For Information">
    <MailAutoDistribution enabled="false"></MailAutoDistribution>
    <MailDistributionRestriction enabled="true"></MailDistributionRestriction>
  </MailType>
  <MailType id="1879048512" displayname="Subcontractors Advice">
    <MailAutoDistribution enabled="false"></MailAutoDistribution>
    <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
  </MailType>
  <MailType id="256" displayname="Tender Transmittal">
    <MailAutoDistribution enabled="false"></MailAutoDistribution>
    <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
  </MailType>
  <MailType id="23" displayname="Transmittal">

```

```
<MailAutoDistribution enabled="false"></MailAutoDistribution>
<MailDistributionRestriction enabled="false"></MailDistributionRestriction>
</MailType>
</MailTypes>
</ComposeMailSchema>
```

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

## View Mail Reply Schema

### View Mail Reply Schema (Version 2)

This service returns the mail schema to reply a specified mail.

It provides information about fields used to compose a reply mail.

Note that the Mail Type field values in this API just include mail types that are allowed for replying the given mail.

### URL structure

The URL is specified in the **href** attribute of the **link** element contained in the View Mail Metadata response, with the **rel** attribute value of "replyMailSchema".

### Parameters

There are no query parameters required for this service.

### Sample request

https://au1.aconex.com/api/projects/1879048400/mail/1879051607/schema/reply

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*s indicate the parent-child depth.

| Element                | Type (maxlength) | Cardinality | Notes                                                                                                              |
|------------------------|------------------|-------------|--------------------------------------------------------------------------------------------------------------------|
| ComposeMailSchema      | Group            | 1           |                                                                                                                    |
| *MultiValueSchemaField | Group            | 0..n        | There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order |

|                             |                        |       |                                                                                                                                                                                                                                                                                                    |
|-----------------------------|------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** Attributes               | Group                  | 1     |                                                                                                                                                                                                                                                                                                    |
| *** EntityField             | No type                | 1     |                                                                                                                                                                                                                                                                                                    |
| *** MandatoryStatus         | Attribute String       | 1     | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"> <li>• MANDATORY</li> <li>• NOT_MANDATORY</li> <li>• CONDITIONAL</li> </ul>                                                                                             |
| **** MandatoryRules         | Group                  | 0...n | The child elements of this element describe the rules that make the field mandatory                                                                                                                                                                                                                |
| ***** Rule                  | Group                  | 1...n | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                        |
| ***** Identifier            | String                 | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                      |
| ***** SchemaValues          | Group                  | 0...n |                                                                                                                                                                                                                                                                                                    |
| ***** SchemaValue           | Group                  | 1...n |                                                                                                                                                                                                                                                                                                    |
| ***** Id                    | Integer String         | 1...n | If the field the identifier of the rule refers to is a multi value schema field, this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                              |
| ** DataType                 | String                 | 1     | One of : <ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul>                                                                                                    |
| ** FieldName                | String(No Limit)       | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                   |
| ** Identifier               | String                 | 1     | Identifier to be used when using the field to create a piece of project mail. One of: <ul style="list-style-type: none"> <li>• MailTypeId</li> <li>• ReasonForIssue</li> <li>• ResponseRequired</li> <li>• Attribute1</li> <li>• Attribute2</li> <li>• Attribute3</li> <li>• Attribute4</li> </ul> |
| ** SchemaValues             | Group                  | 1     |                                                                                                                                                                                                                                                                                                    |
| *** SchemaValue             | Group                  | 0..n  |                                                                                                                                                                                                                                                                                                    |
| **** Id                     | Integer(Signed 32 bit) | 0..1  | A valid value for this field                                                                                                                                                                                                                                                                       |
| **** Value                  | String(60)             | 1     | A string representation for the value                                                                                                                                                                                                                                                              |
| **** DefaultResponseDueDate | Date(In UTC format)    | 0..1  | Default Response date for the configured mail types.                                                                                                                                                                                                                                               |
| **** Links                  | Group                  | 0..1  | Currently used for ComposeMailSchema/MultiValueSchemaField with MailTypeId Identifier only                                                                                                                                                                                                         |
| ***** Link                  | No type                | 0..n  | a link for mail form fields schema or restricted field schema for given mail type (if there are any)                                                                                                                                                                                               |
| ***** rel                   | Attribute              | 1     | Currently should be "mailFormFieldSchema" or "restrictedFieldSchema"                                                                                                                                                                                                                               |
| ***** href                  | Attribute              | 1     | URI for mail form fields schema retrieval or restricted field schema retrieval                                                                                                                                                                                                                     |
| *SingleValueSchemaField     | Group                  | 0..n  | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                                                                                                                                  |
| ** Attributes               | Group                  | 1     |                                                                                                                                                                                                                                                                                                    |
| *** EntityField             | No type                | 1     |                                                                                                                                                                                                                                                                                                    |
| *** MandatoryStatus         | Attribute String       | 1     | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"> <li>• MANDATORY</li> <li>• NOT_MANDATORY</li> <li>• CONDITIONAL</li> </ul>                                                                                             |
| ***** Rule                  | Group                  | 1...n | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                        |

|                                 |                   |       |                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ***** Identifier                | String            | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                                                                                 |
| ***** SchemaValues              | Group             | 0...n |                                                                                                                                                                                                                                                                                                                                                               |
| ***** SchemaValue               | Group             | 1...n |                                                                                                                                                                                                                                                                                                                                                               |
| *****Id                         | Integer<br>String | 1...n | If the field the identifier of the rule refers to is a multi value schema field,this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                                                                                          |
| ** DataType                     | String            | 1     | One of :<br><br><ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul>                                                                                                                                                        |
| ** FieldName                    | String(No Limit)  | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                                              |
| ** Identifier                   | String            | 1     | Identifier to be used when using the field to create a piece of project mail. One of:<br><br><ul style="list-style-type: none"> <li>• TotalAttachmentCount</li> <li>• MailSubject</li> <li>• MailBody</li> <li>• ToUserId</li> <li>• CcUserId</li> <li>• BccUserId</li> <li>• ResponseRequiredDate</li> <li>• Confidential</li> <li>• RichMailText</li> </ul> |
| * MailTypes                     | Group             | 0...1 | Define configuration of mail types which are available in the current context.                                                                                                                                                                                                                                                                                |
| ** MailType                     | Group             | 0...n | Define configuration of this mail type. Each "MailType" maps to a "SchemaValue" of the "MailTypeId" field.                                                                                                                                                                                                                                                    |
| ** id                           | Attribute         | 1     | The id of this mail type. This value matches the id of "SchemaValue" of "MailTypeId" field.                                                                                                                                                                                                                                                                   |
| ** displayName                  | Attribute         | 1     | Display name of this mail type.                                                                                                                                                                                                                                                                                                                               |
| *** MailAutoDistribution        | Group             | 1     | Define configuration of mail auto distribution for this mail type.                                                                                                                                                                                                                                                                                            |
| *** enabled                     | Attribute         | 1     | Indicates whether mail auto distribution is enabled for this mail type or not.                                                                                                                                                                                                                                                                                |
| *** MailDistributionRestriction | Group             | 1     | Define configuration of mail distribution restriction setting for this mail type.                                                                                                                                                                                                                                                                             |
| *** enabled                     | Attribute         | 1     | Indicates if mail distribution restriction is enabled for the mail type.                                                                                                                                                                                                                                                                                      |

#### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ComposeMailSchema>
  <SingleValueSchemaField>
    <Attributes>
      <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Body</FieldName>
    <Identifier>MailBody</Identifier>
  </SingleValueSchemaField>
  <MultiValueSchemaField>
    <Attributes>
      <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Mail Types</FieldName>
    <Identifier>MailTypeId</Identifier>
    <SchemaValues>
      <SchemaValue>
        <DefaultResponseDueDate>2019-10-29T06:57:42.284Z</DefaultResponseDueDate>
        <Id>1879048522</Id>
        <Value>Consultants Advice Notice</Value>
      </SchemaValue>
    </SchemaValues>
  </MultiValueSchemaField>
</ComposeMailSchema>
```

```

</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="CONDITIONAL">
      <MandatoryRules>
        <Rule>
          <Identifier>MailTypeId</Identifier>
          <SchemaValues>
            <SchemaValue>
              <Id>256</Id>
            </SchemaValue>
            <SchemaValue>
              <Id>23</Id>
            </SchemaValue>
          </SchemaValues>
        </Rule>
      </MandatoryRules>
    </EntityField>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Reason for Issue</FieldName>
  <Identifier>ReasonForIssue</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Id>1</Id>
      <Value>Issued for Approval</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>2</Id>
      <Value>Issued for Construction</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048193</Id>
      <Value>Issued for Coordination</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>4</Id>
      <Value>Issued for Information</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>7</Id>
      <Value>Issued for Review</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>8</Id>
      <Value>Issued for Tender</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Attribute 2</FieldName>
  <Identifier>Attribute2</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Value>WP3.04 - Gutters</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.03 - Rain Screen Cladding</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.03 - Plaster & Screeding</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP2.03 - Metal Decking</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.09 - Signage</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.08 - Painting & Decoration</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP2.04 - Underground Drainage</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>

```

```

        </SchemaValue>
        <SchemaValue>
            <Value>WP3.10 - Plumbing</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.08 - Alarm System</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP5.01 - Internal Electrical Installation</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.11 - Internal Fitout</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.05 - Glazed Roof</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.01 - Builders Clean</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.03 - Bulk Excavation (inc. Pile Mat & Probing)</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.10 - Artwork/Statues</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.02 - Dry Lining</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.06 - Podium Mesh Cladding</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.07 - Fire System</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.04 - Ground Works (inc. Grade Concrete Slab)</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.05 - Superstructure Concrete</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.04 - Suspended Ceilings</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP5.02 - Mains Electrical Supply</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.02 - Planar Glazing</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.02 - Sheet Piling & Retaining Walls</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.01 - Cladding</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.07 - Carpets/Timbers/Vinyl Flooring</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.06 - Ceramic Tiling</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP1.01 - Piling</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.09 - Electrical Fitout</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.05 - Stone Floor Finishes</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP2.02 - Structural Steelwork</Value>
        </SchemaValue>
    </SchemaValues>
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    <Attributes>

```

```

        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Mail Types</FieldName>
    <Identifier>MailTypeId</Identifier>
    <SchemaValues>
        <SchemaValue>
            <Id>1879048516</Id>
            <Links>
                <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context
/1879048400/subcontext/1879048516/schema"/>
                <Link rel="restrictedFieldsSchema" href="/api/projects/1879048400/restrictedfields
/organization/1879048492/mailtype/1879048516/schema"/>
            </Links>
            <Value>Internal Memorandum</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048222</Id>
            <Links>
                <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context
/1879048400/subcontext/1879048222/schema"/>
            </Links>
            <Value>Meeting Minutes</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048284</Id>
            <Value>Notice of Meeting</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>10</Id>
            <Value>Request For Information</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048512</Id>
            <Links>
                <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context
/1879048400/subcontext/1879048512/schema"/>
            </Links>
            <Value>Subcontractors Advice</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>256</Id>
            <Value>Tender Transmittal</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>23</Id>
            <Value>Transmittal</Value>
        </SchemaValue>
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    <Attributes>
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    </Attributes>
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    <FieldName>Confidential</FieldName>
    <Identifier>Confidential</Identifier>
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<MultiValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
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    <FieldName>Attribute 1</FieldName>
    <Identifier>Attribute1</Identifier>
    <SchemaValues>
        <SchemaValue>
            <Value>North Tower Hotel</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Events Centre</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Administration</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Spa Building</Value>
        </SchemaValue>
    </SchemaValues>

```

```

        </SchemaValue>
        <SchemaValue>
            <Value>South Tower Hotel</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Retail Building</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Marina</Value>
        </SchemaValue>
    </SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="CONDITIONAL">
            <MandatoryRules>
                <Rule>
                    <Identifier>ResponseRequired</Identifier>
                </Rule>
            </MandatoryRules>
        </EntityField>
    </Attributes>
    <DataType>DATE</DataType>
    <FieldName>Response Required Date</FieldName>
    <Identifier>ResponseRequiredDate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Cc</FieldName>
    <Identifier>CcUserId</Identifier>
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<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
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    <FieldName>Total attachment count</FieldName>
    <Identifier>TotalAttachmentCount</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
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    <FieldName>Rich Text</FieldName>
    <Identifier>RichMailText</Identifier>
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        <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
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    <FieldName>Subject</FieldName>
    <Identifier>MailSubject</Identifier>
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<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="MANDATORY"/>
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    <FieldName>To</FieldName>
    <Identifier>ToUserId</Identifier>
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        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
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    <FieldName>Response required</FieldName>
    <Identifier>ResponseRequired</Identifier>
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        <SchemaValue>
            <Id>1</Id>
            <Value>Respond by</Value>
        </SchemaValue>
    </SchemaValues>

```

```

        </SchemaValue>
        <SchemaValue>
            <Id>2</Id>
            <Value>Approve by</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>3</Id>
            <Value>Submit comments by</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>4</Id>
            <Value>Revise and re-submit by</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>5</Id>
            <Value>Submit quotation by</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>6</Id>
            <Value>Fabricate in accordance with drawings and deliver by</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>7</Id>
            <Value>Tender due by</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>8</Id>
            <Value>Acknowledge by</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>9</Id>
            <Value>Action by</Value>
        </SchemaValue>
    </SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
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    <FieldName>Bcc</FieldName>
    <Identifier>BccUserId</Identifier>
</SingleValueSchemaField>
<MailTypes>
    <MailType id="1879048516" displayname="Internal Memorandum">
        <MailAutoDistribution enabled="true"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="1879048222" displayname="Meeting Minutes">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="1879048284" displayname="Notice of Meeting">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="10" displayname="Request For Information">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="1879048512" displayname="Subcontractors Advice">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="256" displayname="Tender Transmittal">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="23" displayname="Transmittal">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
</MailTypes>
</ComposeMailSchema>

```

# Prerequisites

## Required Permissions

There are no required permissions to use this service.

## Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

# View Mail Forward Schema

## View Mail Forward Schema (Version 2)

This service returns the mail schema to forward a specified mail.

It provides information about fields used to compose a forwarding mail.

Note that the Mail Type field values in this API just include mail types that are allowed for forwarding the given mail.

## URL structure

The URL is specified in the **href** attribute of the **link** element contained in the View Mail Metadata response, with the **rel** attribute value of "forwardMailSchema".

## Parameters

There are no query parameters required for this service.

## Sample request

https://au1.aconex.com/api/projects/1879048400/mail/1879051607/schema/forward

## Request Fields

Not Applicable. HTTP GET operations have no request body.

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element                | Type (maxlength) | Cardinality | Notes                                                                                                                                                                                              |
|------------------------|------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ComposeMailSchema      | Group            | 1           |                                                                                                                                                                                                    |
| *MultiValueSchemaField | Group            | 0..n        | There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order                                                                                 |
| ** Attributes          | Group            | 1           |                                                                                                                                                                                                    |
| *** EntityField        | No type          | 1           |                                                                                                                                                                                                    |
| *** MandatoryStatus    | Attribute String | 1           | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"><li>• MANDATORY</li><li>• NOT_MANDATORY</li><li>• CONDITIONAL</li></ul> |
| **** MandatoryRules    | Group            | 0...n       | The child elements of this element describe the rules that make the field mandatory                                                                                                                |

|                             |                        |       |                                                                                                                                                                                                                                                                                               |
|-----------------------------|------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ***** Rule                  | Group                  | 1...n | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                   |
| ***** Identifier            | String                 | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                 |
| ***** SchemaValues          | Group                  | 0...n |                                                                                                                                                                                                                                                                                               |
| ***** SchemaValue           | Group                  | 1...n |                                                                                                                                                                                                                                                                                               |
| *****Id                     | Integer<br>String      | 1...n | If the field the identifier of the rule refers to is a multi value schema field,this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                          |
| ** DataType                 | String                 | 1     | One of :<br><ul style="list-style-type: none"><li>• STRING</li><li>• BOOLEAN</li><li>• RATIO</li><li>• INTEGER</li><li>• DOUBLE</li><li>• LONG</li><li>• DATE</li><li>• COMPLEX</li></ul>                                                                                                     |
| ** FieldName                | String(No Limit)       | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                              |
| ** Identifier               | String                 | 1     | Identifier to be used when using the field to create a piece of project mail. One of:<br><ul style="list-style-type: none"><li>• MailTypeld</li><li>• ReasonForIssue</li><li>• ResponseRequired</li><li>• Attribute1</li><li>• Attribute2</li><li>• Attribute3</li><li>• Attribute4</li></ul> |
| ** SchemaValues             | Group                  | 1     |                                                                                                                                                                                                                                                                                               |
| *** SchemaValue             | Group                  | 0..n  |                                                                                                                                                                                                                                                                                               |
| **** Id                     | Integer(Signed 32 bit) | 0..1  | A valid value for this field                                                                                                                                                                                                                                                                  |
| **** Value                  | String(60)             | 1     | A string representation for the value                                                                                                                                                                                                                                                         |
| **** DefaultResponseDueDate | Date(In UTC format)    | 0..1  | Default Response date for the configured mail types.                                                                                                                                                                                                                                          |
| **** Links                  | Group                  | 0..1  | Currently used for ComposeMailSchema/MultiValueSchemaField with MailTypeld Identifier only                                                                                                                                                                                                    |
| **** Link                   | No type                | 0..n  | a link for mail form fields schema or restricted field schema for given mail type (if there are any)                                                                                                                                                                                          |
| **** rel                    | Attribute              | 1     | Currently should be "mailFormFieldSchema" or "restrictedFieldSchema"                                                                                                                                                                                                                          |
| **** href                   | Attribute              | 1     | URI for mail form fields schema retrieval or restricted field schema retrieval                                                                                                                                                                                                                |
| *SingleValueSchemaField     | Group                  | 0..n  | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                                                                                                                             |
| ** Attributes               | Group                  | 1     |                                                                                                                                                                                                                                                                                               |
| *** EntityField             | No type                | 1     |                                                                                                                                                                                                                                                                                               |
| *** MandatoryStatus         | Attribute<br>String    | 1     | Determines if the field must be specified when creating a piece of project mail. One of:<br><ul style="list-style-type: none"><li>• MANDATORY</li><li>• NOT_MANDATORY</li><li>• CONDITIONAL</li></ul>                                                                                         |
| ***** Rule                  | Group                  | 1...n | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                   |
| ***** Identifier            | String                 | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                 |
| ***** SchemaValues          | Group                  | 0...n |                                                                                                                                                                                                                                                                                               |
| ***** SchemaValue           | Group                  | 1...n |                                                                                                                                                                                                                                                                                               |
| *****Id                     | Integer<br>String      | 1...n | If the field the identifier of the rule refers to is a multi value schema field,this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                          |

|                                 |                  |       |                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** DataType                     | String           | 1     | One of : <ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul>                                                                                                                                                        |
| ** FieldName                    | String(No Limit) | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                                       |
| ** Identifier                   | String           | 1     | Identifier to be used when using the field to create a piece of project mail. One of: <ul style="list-style-type: none"> <li>• TotalAttachmentCount</li> <li>• MailSubject</li> <li>• MailBody</li> <li>• ToUserId</li> <li>• CcUserId</li> <li>• BccUserId</li> <li>• ResponseRequiredDate</li> <li>• Confidential</li> <li>• RichMailText</li> </ul> |
| * MailTypes                     | Group            | 0...1 | Define configuration of mail types which are available in the current context.                                                                                                                                                                                                                                                                         |
| ** MailType                     | Group            | 0...n | Define configuration of this mail type. Each "MailType" maps to a "SchemaValue" of the "MailTypeId" field.                                                                                                                                                                                                                                             |
| ** id                           | Attribute        | 1     | The id of this mail type. This value matches the id of "SchemaValue" of "MailTypeId" field.                                                                                                                                                                                                                                                            |
| ** displayName                  | Attribute        | 1     | Display name of this mail type.                                                                                                                                                                                                                                                                                                                        |
| *** MailAutoDistribution        | Group            | 1     | Define configuration of mail auto distribution for this mail type.                                                                                                                                                                                                                                                                                     |
| *** enabled                     | Attribute        | 1     | Indicates whether mail auto distribution is enabled for this mail type or not.                                                                                                                                                                                                                                                                         |
| *** MailDistributionRestriction | Group            | 1     | Define configuration of mail distribution restriction setting for this mail type.                                                                                                                                                                                                                                                                      |
| *** enabled                     | Attribute        | 1     | Indicates if mail distribution restriction is enabled for the mail type.                                                                                                                                                                                                                                                                               |

#### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ComposeMailSchema>
  <SingleValueSchemaField>
    <Attributes>
      <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Body</FieldName>
    <Identifier>MailBody</Identifier>
  </SingleValueSchemaField>
  <MultiValueSchemaField>
    <Attributes>
      <EntityField MandatoryStatus="MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Mail Types</FieldName>
    <Identifier>MailTypeId</Identifier>
    <SchemaValues>
      <SchemaValue>
        <DefaultResponseDueDate>2019-10-29T06:57:42.284Z</DefaultResponseDueDate>
        <Id>1879048522</Id>
        <Value>Consultants Advice Notice</Value>
      </SchemaValue>
    </SchemaValues>
  </MultiValueSchemaField>
  <MultiValueSchemaField>
    <Attributes>
      <EntityField MandatoryStatus="CONDITIONAL">
        <MandatoryRules>
          <Rule>
            <Identifier>MailTypeId</Identifier>
            <SchemaValues>
              <SchemaValue>
                <Id>256</Id>
              </SchemaValue>
            </SchemaValues>
          </Rule>
        </MandatoryRules>
      </EntityField>
    </Attributes>
  </MultiValueSchemaField>

```

```

        </SchemaValue>
        <SchemaValue>
            <Id>23</Id>
        </SchemaValue>
    </SchemaValues>
</Rule>
</MandatoryRules>
</EntityField>
</Attributes>
<DataType>INTEGER</DataType>
<FieldName>Reason for Issue</FieldName>
<Identifier>ReasonForIssue</Identifier>
<SchemaValues>
    <SchemaValue>
        <Id>1</Id>
        <Value>Issued for Approval</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>2</Id>
        <Value>Issued for Construction</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>1879048193</Id>
        <Value>Issued for Coordination</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>4</Id>
        <Value>Issued for Information</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>7</Id>
        <Value>Issued for Review</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>8</Id>
        <Value>Issued for Tender</Value>
    </SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Attribute 2</FieldName>
    <Identifier>Attribute2</Identifier>
    <SchemaValues>
        <SchemaValue>
            <Value>WP3.04 - Gutters</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.03 - Rain Screen Cladding</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.03 - Plaster & Screeding</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP2.03 - Metal Decking</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.09 - Signage</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP4.08 - Painting & Decoration</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP2.04 - Underground Drainage</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.10 - Plumbing</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP3.08 - Alarm System</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>WP5.01 - Internal Electrical Installation</Value>
        </SchemaValue>
    </SchemaValues>

```

```

    <SchemaValue>
      <Value>WP4.11 - Internal Fitout</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.05 - Glazed Roof</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.01 - Builders Clean</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP1.03 - Bulk Excavation (inc. Pile Mat & Probing)</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.10 - Artwork/Statues</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.02 - Dry Lining</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.06 - Podium Mesh Cladding</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.07 - Fire System</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP1.04 - Ground Works (inc. Grade Concrete Slab)</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP1.05 - Superstructure Concrete</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.04 - Suspended Ceilings</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP5.02 - Mains Electrical Supply</Value>
    </SchemaValue>
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    </SchemaValue>
    <SchemaValue>
      <Value>WP1.02 - Sheet Piling & Retaining Walls</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.01 - Cladding</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.07 - Carpets/Timbers/Vinyl Flooring</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.06 - Ceramic Tiling</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP1.01 - Piling</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.09 - Electrical Fitout</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.05 - Stone Floor Finishes</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP2.02 - Structural Steelwork</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="MANDATORY"/>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Mail Types</FieldName>
  <Identifier>MailTypeId</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Id>1879048516</Id>
      <Links>
        <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context

```

```

/1879048400/subcontext/1879048516/schema"/>
    <Link rel="restrictedFieldsSchema" href="/api/projects/1879048400/restrictedfields
/organization/1879048492/mailtype/1879048516/schema"/>
    </Links>
    <Value>Internal Memorandum</Value>
</SchemaValue>
<SchemaValue>
    <Id>1879048222</Id>
    <Links>
        <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context
/1879048400/subcontext/1879048222/schema"/>
    </Links>
    <Value>Meeting Minutes</Value>
</SchemaValue>
<SchemaValue>
    <Id>1879048284</Id>
    <Value>Notice of Meeting</Value>
</SchemaValue>
<SchemaValue>
    <Id>10</Id>
    <Value>Request For Information</Value>
</SchemaValue>
<SchemaValue>
    <Id>1879048512</Id>
    <Links>
        <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context
/1879048400/subcontext/1879048512/schema"/>
    </Links>
    <Value>Subcontractors Advice</Value>
</SchemaValue>
<SchemaValue>
    <Id>256</Id>
    <Value>Tender Transmittal</Value>
</SchemaValue>
<SchemaValue>
    <Id>23</Id>
    <Value>Transmittal</Value>
</SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>BOOLEAN</DataType>
    <FieldName>Confidential</FieldName>
    <Identifier>Confidential</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Attribute 1</FieldName>
    <Identifier>Attribute1</Identifier>
    <SchemaValues>
        <SchemaValue>
            <Value>North Tower Hotel</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Events Centre</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Administration</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Spa Building</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>South Tower Hotel</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Retail Building</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Marina</Value>
        </SchemaValue>
    </SchemaValues>

```

```

        </SchemaValues>
    </MultiValueSchemaField>
    <SingleValueSchemaField>
        <Attributes>
            <EntityField MandatoryStatus="CONDITIONAL">
                <MandatoryRules>
                    <Rule>
                        <Identifier>ResponseRequired</Identifier>
                    </Rule>
                </MandatoryRules>
            </EntityField>
        </Attributes>
        <DataType>DATE</DataType>
        <FieldName>Response Required Date</FieldName>
        <Identifier>ResponseRequiredDate</Identifier>
    </SingleValueSchemaField>
    <SingleValueSchemaField>
        <Attributes>
            <EntityField MandatoryStatus="NOT_MANDATORY"/>
        </Attributes>
        <DataType>INTEGER</DataType>
        <FieldName>Cc</FieldName>
        <Identifier>CcUserId</Identifier>
    </SingleValueSchemaField>
    <SingleValueSchemaField>
        <Attributes>
            <EntityField MandatoryStatus="MANDATORY"/>
        </Attributes>
        <DataType>INTEGER</DataType>
        <FieldName>Total attachment count</FieldName>
        <Identifier>TotalAttachmentCount</Identifier>
    </SingleValueSchemaField>
    <SingleValueSchemaField>
        <Attributes>
            <EntityField MandatoryStatus="MANDATORY"/>
        </Attributes>
        <DataType>STRING</DataType>
        <FieldName>Rich Text</FieldName>
        <Identifier>RichMailText</Identifier>
    </SingleValueSchemaField>
    <SingleValueSchemaField>
        <Attributes>
            <EntityField MandatoryStatus="MANDATORY"/>
        </Attributes>
        <DataType>STRING</DataType>
        <FieldName>Subject</FieldName>
        <Identifier>MailSubject</Identifier>
    </SingleValueSchemaField>
    <SingleValueSchemaField>
        <Attributes>
            <EntityField MandatoryStatus="MANDATORY"/>
        </Attributes>
        <DataType>INTEGER</DataType>
        <FieldName>To</FieldName>
        <Identifier>ToUserId</Identifier>
    </SingleValueSchemaField>
    <MultiValueSchemaField>
        <Attributes>
            <EntityField MandatoryStatus="NOT_MANDATORY"/>
        </Attributes>
        <DataType>INTEGER</DataType>
        <FieldName>Response required</FieldName>
        <Identifier>ResponseRequired</Identifier>
        <SchemaValues>
            <SchemaValue>
                <Id>1</Id>
                <Value>Respond by</Value>
            </SchemaValue>
            <SchemaValue>
                <Id>2</Id>
                <Value>Approve by</Value>
            </SchemaValue>
            <SchemaValue>
                <Id>3</Id>
                <Value>Submit comments by</Value>
            </SchemaValue>
            <SchemaValue>

```

```

        <Id>4</Id>
        <Value>Revise and re-submit by</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>5</Id>
        <Value>Submit quotation by</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>6</Id>
        <Value>Fabricate in accordance with drawings and deliver by</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>7</Id>
        <Value>Tender due by</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>8</Id>
        <Value>Acknowledge by</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>9</Id>
        <Value>Action by</Value>
    </SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
    </Attributes>
    <DataType>INTEGER</DataType>
    <FieldName>Bcc</FieldName>
    <Identifier>BccUserId</Identifier>
</SingleValueSchemaField>
<MailTypes>
    <MailType id="1879048516" displayname="Internal Memorandum">
        <MailAutoDistribution enabled="true"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="1879048222" displayname="Meeting Minutes">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="1879048284" displayname="Notice of Meeting">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="10" displayname="Request For Information">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="1879048512" displayname="Subcontractors Advice">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="256" displayname="Tender Transmittal">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
    <MailType id="23" displayname="Transmittal">
        <MailAutoDistribution enabled="false"></MailAutoDistribution>
        <MailDistributionRestriction enabled="false"></MailDistributionRestriction>
    </MailType>
</MailTypes>
</ComposeMailSchema>

```

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

---

## View Mail Forms Fields Schema

### View Mail Forms Fields Schema (Version 2)

This service returns the **mail forms fields** schema for the specified project's mail type. Consumers must follow the links provided in response payload of mail schema.

#### URL structure

The URL is specified in the **href** attribute of the **link** element contained in the mail schema responses, with the **rel** attribute value of "mailFormFieldSchema".

If-None-Match header should be provided if [ETag value is known](#).

#### Parameters

There are no query parameters required for this service.

#### Interface

##### Request Fields

Not Applicable. HTTP GET operations have no request body.

#### Sample of schema section for reply

```
<SchemaValues>
  <SchemaValue>
    <Id>1879048522</Id>
    <Links>
      <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048522/schema/reply/1879053086"/>
    </Links>
    <Value>Consultants Advice Notice</Value>
  </SchemaValue>
  <SchemaValue>
    <Id>1879048516</Id>
    <Links>
      <Link rel="mailFormFieldsSchema" href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048516/schema/reply/1879053086"/>
      <Link rel="restrictedFieldsSchema" href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/1879048516/schema"/>
    </Links>
    <Value>Internal Memorandum</Value>
  </SchemaValue>
</SchemaValues>
```

Sample request following link provide in the [View Mail Reply Schema](#) response.

```
https://au1.aconex.com/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048522/schema/reply/1879053086 [HTTP Header]
Accept: application/vnd.aconex.mail.v2+xml
If-None-Match: 5d678h
```

#### Response Headers

Server will provide response with [ETag](#) header:

Etag: "5d678h"

Client should provide E-Tag in request with If-None-Match header.

If-None-Match: "5d678h"

If tag is provided in request and schema has not changed since last retrieval, server will respond with 302 Not Modified without payload. Otherwise server will return full payload.

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element           | Type(maxlength)   | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MailFormFields    | Group             | 1           | List of mail form fields.                                                                                                                                                                                                                                                                                                                                                               |
| * MailFormField   | Group             | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                         |
| * type            | Attribute String  | 1           | The mail form field data type which will be one of: <ul style="list-style-type: none"><li>• BOOLEAN</li><li>• SINGLE_LINE_TEXT</li><li>• MULTI_LINE_TEXT</li><li>• DATE</li><li>• NUMBER</li><li>• SINGLE_SELECT</li><li>• MULTI_SELECT</li><li>• USER</li></ul>                                                                                                                        |
| * mandatory       | Attribute Boolean | 1           | Value for mandatory field must be provided on sending.                                                                                                                                                                                                                                                                                                                                  |
| * identifier      | Attribute String  | 1           | Mail forms field identifier.                                                                                                                                                                                                                                                                                                                                                            |
| ** Label          | String            | 1           | Localized mail forms field label.                                                                                                                                                                                                                                                                                                                                                       |
| ** HintText       | String            | 0..1        | Localized mail forms field hint text.                                                                                                                                                                                                                                                                                                                                                   |
| ** Specifications | Group             | 0..1        | Contextual information for the mail forms field value e.g. unit name/quantity.                                                                                                                                                                                                                                                                                                          |
| *** Specification | Group             | 1..n        |                                                                                                                                                                                                                                                                                                                                                                                         |
| *** name          | Attribute String  | 1           | Specification name (refer to <a href="#">Unit Table</a> ): <ul style="list-style-type: none"><li>• unitQuantity (for NUMBER type only, e.g. length)</li><li>• unitName (for NUMBER type only, e.g. metre)</li><li>• minLength (for SINGLE_LINE_TEXT type only, e.g. 10)</li><li>• maxLength (e.g. 20)</li><li>• options (for SINGLE_SELECT, MULTI_SELECT and USER types only)</li></ul> |
| *** Option        | Group             | 0..n        | Possible options for SINGLE_SELECT and USER types                                                                                                                                                                                                                                                                                                                                       |
| *** id            | Attribute String  | 0..1        | Optional ID for an Option, if option id is different from the option text                                                                                                                                                                                                                                                                                                               |

## Sample response

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<MailFormFields>
  <MailFormField type="DATE" mandatory="false" identifier="deadline_date">
    <HintText>What is the deadline?</HintText>
    <Label>Deadline</Label>
  </MailFormField>
  <MailFormField type="BOOLEAN" mandatory="false" identifier="completed_boolean">
    <HintText>Is the task complete?</HintText>
    <Label>Completed?</Label>
  </MailFormField>
  <MailFormField type="MULTI_LINE_TEXT" mandatory="false" identifier="feedback_multiLineText">
    <HintText>Any feedback?</HintText>
    <Label>Feedback</Label>
    <Specifications>
      <Specification name="maxLength">4000</Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="SINGLE_LINE_TEXT" mandatory="false" identifier="colour_singleLineText">
    <HintText>What is your favourite colour?</HintText>
    <Label>Favourite Colour</Label>
    <Specifications>
      <Specification name="maxLength">20</Specification>
      <Specification name="minLength">0</Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="NUMBER" mandatory="false" identifier="pipelength_number_length_metre">
    <HintText>What is your pipe length?</HintText>
    <Label>Pipe Length</Label>
    <Specifications>
      <Specification name="maxLength">25</Specification>
      <Specification name="unitName">metre</Specification>
      <Specification name="unitQuantity">length</Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="SINGLE_SELECT" mandatory="false" identifier="status_singleSelect">
    <HintText>Proposal status</HintText>
    <Label>Status</Label>
    <Specifications>
      <Specification name="options">
        <Option>Rejected</Option>
        <Option>Approved</Option>
        <Option>Proposed</Option>
      </Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="MULTI_SELECT" mandatory="false" identifier="Multiselectfield_multiSelect">
    <HintText></HintText>
    <Label>MultiSelectField</Label>
    <Specifications>
      <Specification name="options">
        <Option>MultiSelect-Option-1</Option>
        <Option>MultiSelect-Option-2</Option>
        <Option>MultiSelect-Option-3</Option>
        <Option>MultiSelect-Option-4</Option>
      </Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="USER" mandatory="false" identifier="assignee_user">
    <HintText>Assignee for a job</HintText>
    <Label>Assignee</Label>
    <Specifications>
      <Specification name="options">
        <Option id="123457">John Smith - Aconex</Option>
        <Option id="178599">Mary Brown - Majestic Builders</Option>
        <Option id="9874561252">John White</Option>
      </Specification>
    </Specifications>
  </MailFormField>
</MailFormFields>

```

## Error Codes Specific to the Service

There are no error codes specific to this service.

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

## Related APIs

- View Mail Metadata
- Create Mail
- Reply Mail
- Forward Mail
- Register Mail
- View Mail Schema
- View Restrict Fields Schema

---

## View Restricted Fields Schema

### View Restricted Fields Schema (Version 2)

This service returns the restricted fields schema for the specified project's mail type that belong to user's organisation. Consumer must follow links provided in the response

#### URL structure

The URL is specified in the **href** attribute of the **link** element contained in the mail schema related responses, with the **rel** attribute value of "restrictedFieldSchema".

If-None-Match header should be provided if [ETag value is known](#).

#### Parameters

There are no query parameters required for this service.

#### Interface

##### Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample response of [View Mail Creation Schema](#), [View Mail Reply Schema](#) or [View Mail Forward Schema](#).

```
<SchemaValues>
  <SchemaValue>
    <Id>1879048516</Id>
    <Links>
      <Link rel="restrictedFieldsSchema" href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/1879048516/schema"/>
    </Links>
    <Value>Internal Memorandum</Value>
  </SchemaValue>
</SchemaValues>
```

Sample request of following links in response of [View Mail Creation Schema](#), [View Mail Reply Schema](#) or [View Mail Forward Schema](#).

<https://au1.aconex.com/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/1879048516/schema>

[HTTP Header]  
If-None-Match: 5d678h

#### Note

This URL is specified in the response of View Restricted Field Schema API

Sample:

```
<Link rel="restrictedFieldSchema" href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/1879048516/schema" />
```

#### Response Headers

Server will provide response with [ETag](#) header:

ETag: "5d678h"

Client should provide E-Tag in request with If-None-Match header.

If-None-Match: "5d678h"

If tag is provided in request and schema has not changed since last retrieval, server will respond with 304 Not Modified without payload. Otherwise server will return full payload.

#### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element           | Type(maxlength)   | Cardinality | Notes                                                                                                                                                                                                                                                             |
|-------------------|-------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RestrictedFields  | Group             | 1           | List of restricted fields.                                                                                                                                                                                                                                        |
| * RestrictedField | Group             | 0..n        |                                                                                                                                                                                                                                                                   |
| * type            | Attribute String  | 1           | The restricted field data type which will be one of: <ul style="list-style-type: none"><li>• BOOLEAN</li><li>• SINGLE_LINE_TEXT</li><li>• MULTI_LINE_TEXT</li><li>• DATE</li><li>• NUMBER</li><li>• SINGLE_SELECT</li><li>• MULTI_SELECT</li><li>• USER</li></ul> |
| * mandatory       | Attribute Boolean | 1           | Value for mandatory field must be provided on sending.                                                                                                                                                                                                            |
| * identifier      | Attribute String  | 1           | restricted field identifier.                                                                                                                                                                                                                                      |
| ** Label          | String            | 1           | Localized restricted field label.                                                                                                                                                                                                                                 |
| ** HintText       | String            | 0..1        | Localized restricted field hint text.                                                                                                                                                                                                                             |
| ** Specifications | Group             | 0..1        | Contextual information for the restricted field value e.g. unit name/quantity.                                                                                                                                                                                    |
| *** Specification | Group             | 1..n        |                                                                                                                                                                                                                                                                   |

|            |                  |      |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** name   | Attribute String | 1    | Specification name (refer to <a href="#">Unit Table</a> ): <ul style="list-style-type: none"> <li>• unitQuantity (for NUMBER type only, e.g. length)</li> <li>• unitName (for NUMBER type only, e.g. metre)</li> <li>• minLength (for SINGLE_LINE_TEXT type only, e.g. 10)</li> <li>• maxLength (e.g. 20)</li> <li>• options (for SINGLE_SELECT, MULTI_SELECT and USER types only)</li> </ul> |
| *** Option | Group            | 0..n | Possible options for SINGLE_SELECT and USER types                                                                                                                                                                                                                                                                                                                                             |
| *** id     | Attribute String | 0..1 | Optional ID for an Option, if option id is different from the option text                                                                                                                                                                                                                                                                                                                     |

#### Sample response

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RestrictedFields>
  <RestrictedField type="DATE" mandatory="false" identifier="restricted_deadline_date">
    <HintText>What is the deadline?</HintText>
    <Label>Deadline</Label>
  </RestrictedField>
  <RestrictedField type="BOOLEAN" mandatory="false" identifier="restricted_completed_boolean">
    <HintText>Is the task complete?</HintText>
    <Label>Completed?</Label>
  </RestrictedField>
  <RestrictedField type="MULTI_LINE_TEXT" mandatory="false" identifier="restricted_feedback_multiLineText">
    <HintText>Any feedback?</HintText>
    <Label>Feedback</Label>
    <Specifications>
      <Specification name="maxLength">4000</Specification>
    </Specifications>
  </RestrictedField>
  <RestrictedField type="SINGLE_LINE_TEXT" mandatory="false" identifier="restricted_colour_singleLineText">
    <HintText>What is your favourite colour?</HintText>
    <Label>Favourite Colour</Label>
    <Specifications>
      <Specification name="maxLength">20</Specification>
      <Specification name="minLength">0</Specification>
    </Specifications>
  </RestrictedField>
  <RestrictedField type="NUMBER" mandatory="false" identifier="restricted_pipelength_number_length_metre">
    <HintText>What is your pipe length?</HintText>
    <Label>Pipe Length</Label>
    <Specifications>
      <Specification name="maxLength">25</Specification>
      <Specification name="unitName">metre</Specification>
      <Specification name="unitQuantity">length</Specification>
    </Specifications>
  </RestrictedField>
  <RestrictedField type="SINGLE_SELECT" mandatory="false" identifier="restricted_status_singleSelect">
    <HintText>Proposal status</HintText>
    <Label>Status</Label>
    <Specifications>
      <Specification name="options">
        <Option>Rejected</Option>
        <Option>Approved</Option>
        <Option>Proposed</Option>
      </Specification>
    </Specifications>
  </RestrictedField>
  <RestrictedField type="MULTI_SELECT" mandatory="false" identifier="Restrictedmultiselectfield_multiSelect">
    <HintText></HintText>
    <Label>RestrictedMultiSelectField</Label>
    <Specifications>
      <Specification name="options">
        <Option>RF-MultiSelect-Option-1</Option>
        <Option>RF-MultiSelect-Option-2</Option>
        <Option>RF-MultiSelect-Option-3</Option>
        <Option>RF-MultiSelect-Option-4</Option>
      </Specification>
    </Specifications>
  </RestrictedField>
  <RestrictedField type="USER" mandatory="false" identifier="assignee_user">
    <HintText>Assignee for a job</HintText>
    <Label>Assignee</Label>
    <Specifications>
      <Specification name="options">
        <Option id="123457">John Smith - Aconex</Option>
        <Option id="178599">Mary Brown - Majestic Builders</Option>
        <Option id="9874561252">John White</Option>
      </Specification>
    </Specifications>
  </RestrictedField>
</RestrictedFields>

```

There are no error codes specific to this service.

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

## Related APIs

- View Mail Metadata
  - Create Mail
  - Reply Mail
  - Forward Mail
  - Register Mail
  - View Mail Form Fields Schema
- 

## List Mail

### List Mail (Version 2)

The service executes a search of an organization's project mailbox.

#### Notes:

1. The use of this service is closely linked to information returned by the *View Mail Schema* API service, specifically the SearchSchemaFields returned by that service. The identifiers specified in the search schema fields can be used as values to the parameters of this request to filter search results as well as specify data to return in the response for each search result.

#### Specifying fields to return

The service allows you to request specific data for each mail search result by populating the return\_fields parameter with a comma separated list of identifiers (specified by the search schema fields in the mail schema). By default, the service returns only the mailId for **every mail item** in the selected mailbox. It is important to note that if an identifier is provided which is not specified as a search result field, an error will be returned and the search will not execute.

#### Sorting results

It is possible to sort the search results by a specific field. This is done by providing a single value to the sort\_field parameter when performing the request. Once again, all possible identifiers must be specified as sortable. The fields that can be sorted on must be a SearchResultField and have their sortable attribute set to true. It is also possible to specify the sort direction (ascending or descending).

#### Mailbox searching

The authorizing user **must select one** of the available mailboxes to search:

- inbox
- sentbox
- draftbox

#### Search type

The service provides the ability to perform different types of searches.

**Limited** - Limit the number of search results to be returned.

**Full** - Request all available results for the search (DEPRECATED - recommended to use PAGED instead)

**Paged** - Request a specific page from a large set of results.

**Count** - Return only the number of results for the search.

**Note:** *search\_type FULL is deprecated and will be removed July 30 2020. We advise users who were previously using FULL to use the PAGED search\_type instead.*

Two parameters are involved in specifying the type of search to be performed (and if limited, the number of results to return). The `search_type` parameter determines the type of search, and the `search_result_size` allows you to specify the maximum number of results for a limited search. Note for limited searches, the value specified for `search_result_size` must be at least (and a multiple of) 25.

By default, a number limited search is performed with the maximum number of results returned being set at 250.

Optional search parameters may be specified in the request URL in order to:

- retrieve a subset of the mail items, that match filter values
- specify additional mail metadata fields to be returned in the search results
- limit the number of items returned in the search results
- specify the field to sort the search results by, and in what order (ascending or descending).

### URL structure

HTTP GET: `https://{hostname}/api/projects/{projectid}/mail?{parameters}`

### Parameters

| Parameters   | Type<br>(maxlength) | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------|---------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mail_box     | String              | 1           | One of; <ul style="list-style-type: none"><li>• inbox</li><li>• sentbox</li><li>• draftbox</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| search_query | String(no limit)    | 0..1        | Lucene search query.<br><br>Field names available for searching: <ul style="list-style-type: none"><li>• attribute</li><li>• secondaryattribute</li><li>• thirdattribute</li><li>• fourthattribute</li><li>• closedoutdate</li><li>• corrddata</li><li>• corrtypeid</li><li>• docno</li><li>• fromtradingname</li><li>• fromuserfullname</li><li>• inreftomailno</li><li>• reasonforissueid</li><li>• respondedate</li><li>• sentdate</li><li>• subject</li><li>• tostatusid</li><li>• totradingname</li><li>• touserfullname</li><li>• noninitiatornoactionrequired</li></ul> <b>Note:</b> Without a <code>search_query</code> , every document in the project is returned. Please refer to notes below for further information about Lucene. |

|                    |                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_fields      | String(no limit) | 0..1  | <p>A comma-separated list of mail fields to return in the search results.</p> <p>Field names available to be returned in the response are:</p> <ul style="list-style-type: none"> <li>• attribute</li> <li>• closedoutdetails</li> <li>• confidential</li> <li>• corrtypeid</li> <li>• docno</li> <li>• fromUserDetails</li> <li>• inreftomailno</li> <li>• mailRecipients</li> <li>• reasonforissueid</li> <li>• respondedate</li> <li>• secondaryattribute</li> <li>• sentdate</li> <li>• subject</li> <li>• tostatusid</li> <li>• totalAttachmentsSize</li> <li>• totalLocalAttachmentsSize</li> <li>• attachedDocumentCount</li> <li>• allAttachmentCount</li> </ul>                                                                                                                                                                                                                                                                                                                             |
| search_type        | String           | 0..1  | <p>One of;</p> <ul style="list-style-type: none"> <li>• NUMBER_LIMITED - return a maximum number of results. Please refer to search_result_size parameter which is mandatory for this search type.</li> <li>• FULL - return <b>all</b> matching results (DEPRECATED - recommend to use PAGED search_type instead)</li> <li>• COUNT_ONLY - return <b>only</b> a count of items. As no other information can be retrieved, the following parameters are ignored for this search_type: <ul style="list-style-type: none"> <li>◦ return_fields</li> <li>◦ search_result_size</li> <li>◦ sort_field</li> <li>◦ sort_direction</li> </ul> </li> <li>• PAGED - return results in "pages" of variable size. Please refer to page_size and page_number parameters which are mandatory for this search type. The following parameters are ignored: search_result_size.<br/> <b>Note:</b> Without this parameter specified, your search defaults to NUMBER_LIMITED with a search_result_size of 250.</li> </ul> |
| page_size          | Integer          | 0...1 | <p>This parameter is available <b>only</b> if search_type is explicitly set to PAGED. If specified, the value <b>must</b> be a number that is divisible by <b>25</b>. Without this parameter specified, this defaults to <b>25</b>.<br/> Note: This parameter has a maximum value of 500</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| page_number        | Integer          | 0..1  | <p>This parameter is available <b>only</b> if search_type is explicitly set to PAGED. If specified, the value <b>must</b> be between "1" and the value of the "TotalPages" attribute that is in the response, otherwise an error is returned. Without this parameter specified, this defaults to <b>1</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| search_result_size | Integer          | 0..1  | <p>This parameter is available <b>only</b> if search_type is explicitly set to NUMBER_LIMITED. The value <b>must</b> be a number that is divisible by <b>25</b>. Without this parameter specified, this defaults to <b>250</b>.<br/> Note: This parameter has a maximum value of 500</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| sort_field         | String           | 0..1  | <p>The name of the field to sort the search results by. Results can only be sorted by a single field, although it does <b>not</b> have to be one of the fields specified in the return_fields parameter.</p> <p>Field names available for sorting are:</p> <ul style="list-style-type: none"> <li>• confidential</li> <li>• corrtypeid</li> <li>• docno</li> <li>• inreftomailno</li> <li>• reasonforissueid</li> <li>• respondedate</li> <li>• sentdate</li> <li>• subject</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| sort_direction     | String           | 0..1  | <p>One of;</p> <ul style="list-style-type: none"> <li>• ASC, ascending order</li> <li>• DESC, descending order</li> </ul> <p><b>Note:</b> Without this parameter specified, sort defaults to ASC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Interface

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

[https://au1.aconex.com/api/projects/1879048428/mail?mail\\_box=inbox&return\\_fields=closedoutdetails,tostatusid,mailRecipients,fromUserDetails,subject,attribute,docno,reasonforissueid,corrtypeid,sentdate,secondaryattribute&search\\_type=NUMBER\\_LIMITED&search\\_query=tostatusid:2&sort\\_field=sentdate](https://au1.aconex.com/api/projects/1879048428/mail?mail_box=inbox&return_fields=closedoutdetails,tostatusid,mailRecipients,fromUserDetails,subject,attribute,docno,reasonforissueid,corrtypeid,sentdate,secondaryattribute&search_type=NUMBER_LIMITED&search_query=tostatusid:2&sort_field=sentdate)

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element                          | Type (maxlength)    | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|---------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MailSearch                       | Group               | 1           |                                                                                                                                                                                                                                                                                                                                           |
| TotalResults                     | Attribute Integer   | 1           | The number of mail items that match the search_query.<br><br><b>Notes:</b><br><br>1. If a paged search is performed, this number represents all pages (including those not returned in the current page of results)<br>2. If a number limited search is performed, this number represents the number of results returned in the response. |
| TotalResultsOnPage               | Attribute Integer   | 0..1        | The number of results on the current page.<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                                         |
| TotalPages                       | Attribute Integer   | 0..1        | The total number of pages available for the specified page_size.<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                   |
| PageSize                         | Attribute Integer   | 0..1        | The page size for the search (will match specified page_size).<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                     |
| CurrentPage                      | Attribute Integer   | 0..1        | The current page of results (will match specified page_number).<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                    |
| * SearchResults                  | Group               | 1           |                                                                                                                                                                                                                                                                                                                                           |
| ** Mail                          | Group               | 0..n        |                                                                                                                                                                                                                                                                                                                                           |
| ** MailId                        | Attribute String    | 1           |                                                                                                                                                                                                                                                                                                                                           |
| ***AllAttachmentCount            | Integer             | 0..1        | A count indicating the number of attached local files, documents, and project mails. Returned when return_fields parameter includes the value "allAttachmentCount".                                                                                                                                                                       |
| *** Attribute1                   | Group               | 0..1        | Returned when return_fields parameter includes the value "attribute"                                                                                                                                                                                                                                                                      |
| **** AttributeTypeNames          | Group               | 0..1        |                                                                                                                                                                                                                                                                                                                                           |
| ***** AttributeTypeName          | String(200)         | 0..n        |                                                                                                                                                                                                                                                                                                                                           |
| **** AttributeType               | String              | 1           | Constant: PRIMARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                               |
| *** Attribute2                   | Group               | 0..1        | Returned when return_fields parameter includes the value "secondaryattribute"                                                                                                                                                                                                                                                             |
| **** AttributeTypeNames          | Group               | 0..1        |                                                                                                                                                                                                                                                                                                                                           |
| ***** AttributeTypeName          | String(200)         | 0..n        |                                                                                                                                                                                                                                                                                                                                           |
| **** AttributeType               | String              | 1           | Constant: SECONDARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                             |
| *** ClosedOutDetails             | Group               | 0..1        | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutByOrganizationName | String(60)          | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutByOrganizationId   | String              | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutByUserName         | String(33)          | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutByUserId           | String              | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutDate               | Date(In UTC format) | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| *** Confidential                 | Boolean             | 0..1        | Returned when return_fields parameter includes the value "confidential"                                                                                                                                                                                                                                                                   |

|                        |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** CorrespondenceType | String(200) | 0..1 | Returned when return_fields parameter includes the value "corrtypeid"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| *** ToUsers            | Group       | 0..1 | Returned when return_fields parameter includes the value "mailRecipients"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| **** Recipient         | Group       | 1..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ***** OrganizationId   | String      | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ***** OrganizationName | String(60)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ***** Read             | Boolean     | 1    | Returns true/false based on the read/unread status of mail by "to user"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ***** FirstName        | String      | 1    | User First Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ***** LastName         | String      | 1    | User Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ***** Status           | String      | 1    | <p>Specifies the status of the mail for this distribution which will be one of:</p> <ul style="list-style-type: none"> <li>• Outstanding</li> <li>• N/A</li> <li>• Responded</li> <li>• Overdue</li> <li>• Closed-Out</li> <li>• No Action Required</li> </ul> <p>Configured available values for Responded</p> <ul style="list-style-type: none"> <li>• Closed</li> <li>• Completed</li> <li>• Answered</li> </ul> <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> <li>• Confirmed</li> <li>• Accepted</li> <li>• Agreed</li> <li>• Closed</li> </ul> |
| ***** DistributionType | String      | 1    | <p>One of;</p> <ul style="list-style-type: none"> <li>• TO</li> <li>• CC</li> <li>• BCC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ***** OrganizationName | String(60)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ***** UserId           | String      | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| *** MailNo             |             | 0..1 | Returned when return_fields parameter includes the value "docno"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| *** FromUserDetails    | Group       | 0..1 | Returned when return_fields parameter includes the value "fromUserDetails"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| **** OrganizationId    | String      | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| **** OrganizationName  | String(60)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| **** UserId            | String      | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| **** FirstName         | String      | 1    | User First Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| **** LastName          | String      | 1    | User Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *** ReasonForIssue     | String(200) | 0..1 | Returned when return_fields parameter includes the value "reasonforissueid"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| *** SentDate           | String      | 0..1 | Returned when return_fields parameter includes the value "sentdate"<br>UTC format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                     |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** Status          | String(20)  | 0..1 | <p>Returned when return_fields parameter includes the value "tostatusid"</p> <p>Specifies the status of the mail which will be one of:</p> <ul style="list-style-type: none"> <li>• Outstanding</li> <li>• N/A</li> <li>• Responded</li> <li>• Partial</li> <li>• Overdue</li> <li>• Closed-Out</li> </ul> <p>Configured available values for Responded</p> <ul style="list-style-type: none"> <li>• Closed</li> <li>• Completed</li> <li>• Answered</li> </ul> <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> <li>• Confirmed</li> <li>• Accepted</li> <li>• Agreed</li> <li>• Closed</li> </ul> |
| *** Subject         | String(250) | 0..1 | Returned when return_fields parameter includes the value "subject"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| *** ReferenceNumber | String      | 0..1 | Returned when return_fields parameter includes the value "inreftomailno"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *** HasAttachments  | Boolean     | 0..1 | Returned when return_fields parameter includes the value "hasAttachments". This field will return true if the mail has attachments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Sample NUMBER\_LIMITED search type response**

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<MailSearch TotalResults="1">
  <SearchResults>
    <Mail MailId="1879052617">
      <AllAttachmentCount>10</AllAttachmentCount>
      <Attribute1>
        <AttributeTypeNames>
          <AttributeTypeName>External Works</AttributeTypeName>
          <AttributeTypeName>Car Park</AttributeTypeName>
          <AttributeTypeName>Office Tower</AttributeTypeName>
        </AttributeTypeNames>
        <AttributeType>PRIMARY_ATTRIBUTE</AttributeType>
      </Attribute1>
      <Attribute2>
        <AttributeTypeNames>
          <AttributeTypeName>IEQ</AttributeTypeName>
        </AttributeTypeNames>
        <AttributeType>SECONDARY_ATTRIBUTE</AttributeType>
      </Attribute2>
      <CorrespondenceType>Request For Information</CorrespondenceType>
      <ToUsers>
        <Recipient>
          <OrganizationId>1879048492</OrganizationId>
          <OrganizationName>Majestic Builders</OrganizationName>
          <Read>true</Read>
          <Status>Overdue</Status>
          <DistributionType>T0</DistributionType>
          <FirstName>Patrick</FirstName>
          <Name>Mr Patrick O'Leary</Name>
          <UserId>1879049107</UserId>
          <LastName>O'Leary</LastName>
        </Recipient>
        <Recipient>
          <OrganizationId>1879048492</OrganizationId>
          <OrganizationName>Majestic Builders</OrganizationName>
          <Read>false</Read>
          <Status>Overdue</Status>
          <DistributionType>T0</DistributionType>
          <FirstName>Tim</FirstName>
          <Name>Mr Tim Yeung</Name>
          <UserId>1879049123</UserId>
          <LastName>Yeung</LastName>
        </Recipient>
      </ToUsers>
      <MailNo>VIP-RFI-000001</MailNo>
      <ReferenceNumber>VIP-RFI-000001</ReferenceNumber>
      <FromUserDetails>
        <OrganizationId>1879048491</OrganizationId>
        <OrganizationName>VIP Group</OrganizationName>
        <FirstName>Peter</FirstName>
        <Name>Mr Peter Chitwood</Name>
        <UserId>1879049119</UserId>
        <LastName>Chitwood</LastName>
      </FromUserDetails>
      <LocalAttachmentsFileSize>12345</LocalAttachmentsFileSize>
      <ReasonForIssue></ReasonForIssue>
      <SentDate>2007-11-22T23:27:11.373Z</SentDate>
      <Status>Overdue</Status>
      <Subject>IEQ-14 - Formaldehyde Minimisation of wood products </Subject>
    </Mail>
  </SearchResults>
</MailSearch>

```

Sample PAGED search type response

```
<?xml version="1.0"?>
<MailSearch TotalResultsOnPage="5" TotalResults="55" TotalPages="2" PageSize="50" CurrentPage="2">
  <SearchResults>
    <Mail MailId="106">
      <MailNo>CAN-000002</MailNo>
    </Mail>
    <Mail MailId="29">
      <MailNo>CAN-000001</MailNo>
    </Mail>
    <Mail MailId="1053">
      <MailNo>CA-000001</MailNo>
    </Mail>
    <Mail MailId="1412">
      <MailNo>59_28_TD</MailNo>
    </Mail>
    <Mail MailId="1408">
      <MailNo>58_7_TD</MailNo>
    </Mail>
  </SearchResults>
</MailSearch>
```

#### Sample COUNT\_ONLY search type response

```
<?xml version="1.0"?>
<MailSearch TotalResults="55"/>
```

#### Error Codes Specific to the Service

| StatusCode               | Description                                                                 | HTTP Status Code |
|--------------------------|-----------------------------------------------------------------------------|------------------|
| INVALID_PARAMETER_VALUE  | If a value for a provided parameter is not valid in anyway or unexpected    | 400              |
| INVALID_RESULT_SET_FIELD | If a field requested as part of the results is not a valid result set field | 400              |
| INVALID_SORT_FIELD       | If the field specified to sort on is not a valid sortable field             | 400              |
| MALFORMED_QUERY          | If the query provided is not a correctly structured Lucene query            | 400              |

#### Prerequisites

##### Required Permissions

There are no required permissions to use this service.

##### Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of active fields, prior to constructing a search request.

#### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user does not have access to the specified project.

The service cannot search multiple mailboxes at the same time.

The service will **not** find mail items that are both marked as "Confidential" and where the authorizing user is **not** a recipient (or the sender for sent mails) or does not have the secured asset to view all organization mail.

#### Further Reading

Introductory notes about Lucene queries may be found here:

[http://lucene.apache.org/core/3\\_5\\_0/queryparsersyntax.html](http://lucene.apache.org/core/3_5_0/queryparsersyntax.html)

#### Related APIs

- List Mail Schema
- View Mail Metadata
- Mark Mail As Read
- Download Mail Attachment

## Mail Search (POST) - Project Fields Support

### Mail Search (POST) - Project Fields Support

The service executes a mail search for a project using a JSON request payload and returns results in Mail V2 XML format.

#### Notes:

1. This API aligns with existing Mail search behavior for mailbox/search/sort/paging validation.
2. Request body is mandatory.

#### Specifying fields to return

Use `returnFields` in the request body to control which fields are returned for each mail result. This is equivalent to `return_fields` in List Mail (GET) APIs with extra support of Project Fields which also can be added in `return_fields` as fully qualified names.

#### Sorting results

Use `sortField` and `sortDirection` in the request body.

#### Mailbox searching

Use `mailBox` to select mailbox scope (for example: ALLBOX, INBOX, SENTBOX, DRAFTBOX).

#### Search type

Use `searchType` with existing mail search options (for example PAGED, NUMBER\_LIMITED, COUNT\_ONLY, FULL).

`pageSize` and `pageNumber` are used for paged searches.

#### URL structure

```
HTTP POST: https://{hostname}/api/projects/{projectId}/mail/search?effective_user={username}&chunkedResponse={true|false}
```

#### Parameters

| Parameters      | Type    | Cardinality | Notes                                                                    |
|-----------------|---------|-------------|--------------------------------------------------------------------------|
| effective_user  | String  | 0..1        | Effective user for request execution (same behavior as other Mail APIs). |
| chunkedResponse | Boolean | 0..1        | Optional. If true, response may be returned chunked.                     |

#### Interface

##### Request Fields (JSON body)

| Field            | Type          | Cardinality | Notes                                                                          |
|------------------|---------------|-------------|--------------------------------------------------------------------------------|
| searchQuery      | String        | 0..1        | Lucene search query expression. + is interpreted as a space during processing. |
| returnFields     | Array[String] | 0..1        | Fields to return in each mail result.                                          |
| mailBox          | String        | 0..1        | Mailbox scope (example: ALLBOX).                                               |
| searchType       | String        | 0..1        | Search mode (example: PAGED).                                                  |
| searchResultSize | String        | 0..1        | Search result size for compatible search types.                                |
| sortField        | String        | 0..1        | Field used for sorting.                                                        |
| sortDirection    | String        | 0..1        | ASC or DESC.                                                                   |
| pageSize         | String        | 0..1        | Page size for paged search.                                                    |
| pageNumber       | String        | 0..1        | Page number for paged search.                                                  |

#### Sample request URL

```
https://localhost:8443/api/projects/1879048400/mail/search
```

#### Sample request body

```
{
  "searchQuery": "completed_boolean:1+toastatusid:2",
  "mailBox": "ALLBOX",
  "searchType": "PAGED",
  "pageSize": "50",
  "pageNumber": "1",
  "sortField": "sentdate",
  "sortDirection": "DESC",
  "returnFields": [
    "mailformfield1",
    "mailformfield2",
    "subject",
    "attribute",
    "closedoutdetails",
    "confidential",
    "docno",
    "fromUserDetails",
    "mailRecipients",
  ]
}
```

#### Sample cURL request

```
curl --location 'https://localhost:8443/api/projects/1879048400/mail/search' \
--header 'Accept: application/vnd.aconex.mail.v2+xml;charset=UTF-8' \
--header 'Content-Type: application/json' \
--header 'Accept-Encoding: chunked' \
--data '{
  "searchQuery": "completed_boolean:1+toastatusid:2",
  "mailBox": "ALLBOX",
  "searchType": "PAGED",
  "pageSize": "50",
  "pageNumber": "1",
  "sortField": "sentdate",
  "sortDirection": "DESC",
  "returnFields": [
    "subject",
    "attribute",
    "closedoutdetails",
    "confidential",
    "docno",
    "fromUserDetails",
    "mailRecipients",
    "completed_boolean"
  ]
}'
```

#### Response format

- Content type: application/vnd.aconex.mail.v2+xml
- Response root element: MailSearch
- Includes page metadata attributes and SearchResults/Mail entries.

#### Sample response highlights

- MailSearch CurrentPage="1" PageSize="50" TotalPages="1" TotalResults="1" TotalResultsOnPage="1"
- Mail MailId="1879053088"
- MailNo: MAJ-INM-000003
- Subject: View Mail Test 1
- Confidential: true
- MailFormFields/MailFormField/Identifier: completed\_boolean
- MailFormFields/MailFormField/Value: true

#### Full sample response (XML)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<MailSearch CurrentPage="1" PageSize="50" TotalPages="1" TotalResults="1" TotalResultsOnPage="1">
  <SearchResults>
```

```
<Mail MailId="1879053088">
  <Attribute1>
    <AttributeTypeNames>
      <AttributeTypeName>Spa Building</AttributeTypeName>
      <AttributeTypeName>Marina</AttributeTypeName>
    </AttributeTypeNames>
    <AttributeType>PRIMARY_ATTRIBUTE</AttributeType>
  </Attribute1>
  <Confidential>true</Confidential>
  <ToUsers>
    <Recipient>
      <OrganizationId>1879048221</OrganizationId>
      <OrganizationName>Brisbane Concretors</OrganizationName>
      <Read>false</Read>
      <Status>Overdue</Status>
      <DistributionType>T0</DistributionType>
      <FirstName>Barney</FirstName>
      <Name>Mr Barney Baynes</Name>
      <UserId>1879048247</UserId>
      <LastName>Baynes</LastName>
    </Recipient>
    <Recipient>
      <OrganizationId>1879048431</OrganizationId>
      <OrganizationName>JPS Kitchens</OrganizationName>
      <Read>false</Read>
      <Status>Overdue</Status>
      <DistributionType>T0</DistributionType>
      <FirstName>Chyou Genji</FirstName>
      <Name>Mr Chyou Genji Chen</Name>
      <UserId>1879048676</UserId>
      <LastName>Chen</LastName>
    </Recipient>
    <Recipient>
      <OrganizationId>1879048517</OrganizationId>
      <OrganizationName>Andreas Metal</OrganizationName>
      <Read>false</Read>
      <Status>Overdue</Status>
      <DistributionType>T0</DistributionType>
      <FirstName>Amar</FirstName>
      <Name>Mr Amar Singh</Name>
      <UserId>1879049203</UserId>
      <LastName>Singh</LastName>
    </Recipient>
    <Recipient>
      <OrganizationId>1879048432</OrganizationId>
      <OrganizationName>Syarikat Usaha Ramai Sdn. Bhd</OrganizationName>
      <Read>false</Read>
      <Status>N/A</Status>
      <DistributionType>CC</DistributionType>
      <FirstName>Fatimah</FirstName>
      <Name>Mrs Fatimah Amin</Name>
      <UserId>1879048702</UserId>
      <LastName>Amin</LastName>
    </Recipient>
    <Recipient>
      <OrganizationId>1879048427</OrganizationId>
      <OrganizationName>Infinitel</OrganizationName>
      <Read>false</Read>
      <Status>N/A</Status>
      <DistributionType>CC</DistributionType>
      <FirstName>Emily</FirstName>
      <Name>Ms Emily Auber</Name>
      <UserId>1879048791</UserId>
      <LastName>Auber</LastName>
    </Recipient>
    <Recipient>
      <OrganizationId>1879048501</OrganizationId>
      <OrganizationName>Indi Plumbing</OrganizationName>
      <Read>false</Read>
      <Status>N/A</Status>
      <DistributionType>CC</DistributionType>
```

```

        <FirstName>Derek</FirstName>
        <Name>Mr Derek Matthews</Name>
        <UserId>1879049161</UserId>
        <LastName>Matthews</LastName>
    </Recipient>
    <Recipient>
        <OrganizationId>1879048248</OrganizationId>
        <OrganizationName>Hao Traders</OrganizationName>
        <Read>false</Read>
        <Status>N/A</Status>
        <DistributionType>BCC</DistributionType>
        <FirstName>Hao</FirstName>
        <Name>Mr Hao Nguyen</Name>
        <UserId>1879048383</UserId>
        <LastName>Nguyen</LastName>
    </Recipient>
    <Recipient>
        <OrganizationId>1879048436</OrganizationId>
        <OrganizationName>Gulf Wide Consultants</OrganizationName>
        <Read>false</Read>
        <Status>N/A</Status>
        <DistributionType>BCC</DistributionType>
        <FirstName>Ghadeer</FirstName>
        <Name>Mrs Ghadeer Al Basha</Name>
        <UserId>1879048723</UserId>
        <LastName>Al Basha</LastName>
    </Recipient>
    <Recipient>
        <OrganizationId>1879048501</OrganizationId>
        <OrganizationName>Indi Plumbing</OrganizationName>
        <Read>false</Read>
        <Status>N/A</Status>
        <DistributionType>BCC</DistributionType>
        <FirstName>Indi</FirstName>
        <Name>Mr Indi Taft</Name>
        <UserId>1879049116</UserId>
        <LastName>Taft</LastName>
    </Recipient>
</ToUsers>
<MailNo>MAJ-INM-000003</MailNo>
<FromUserDetails>
    <OrganizationId>1879048492</OrganizationId>
    <OrganizationName>Majestic Builders</OrganizationName>
    <FirstName>Patrick</FirstName>
    <Name>Mr Patrick O\Leary</Name>
    <UserId>1879049107</UserId>
    <LastName>O\Leary</LastName>
</FromUserDetails>
<Links>
    <Link href="/api/projects/null/mail/1879053088/schema/reply" rel="replyMailSchema"/>
    <Link href="/api/projects/null/mail/1879053088/schema/forward" rel="forwardMailSchema"/>
</Links>
<MailFormFields>
    <MailFormField>
        <Identifier>completed_boolean</Identifier>
        <Value>true</Value>
    </MailFormField>
</MailFormFields>
<Subject>View Mail Test 1</Subject>
</Mail>
</SearchResults>
</MailSearch>

```

#### Error Codes Specific to the Service

| StatusCode              | Description                                          | HTTP Status Code |
|-------------------------|------------------------------------------------------|------------------|
| INVALID_PARAMETER_VALUE | Invalid value for mailbox/search/sort/paging fields. | 400              |

|                 |                                          |     |
|-----------------|------------------------------------------|-----|
| MALFORMED_QUERY | searchQuery is not a valid Lucene query. | 400 |
|-----------------|------------------------------------------|-----|

## Prerequisites

### Required Permissions

There are no additional permissions beyond normal project mail access.

## Constraints

- Request body is mandatory.
- Existing search validation rules for mailbox/search/sort/paging apply.

## Related APIs

- [External API - List Mail Service\(v2\)](#)
- View Mail Schema
- View Mail Metadata

## View Mail Metadata

### View Mail Metadata (Version 2)

#### Request Fields

Not Applicable. HTTP GET operations have no request body.

#### Sample request

```
HTTPS GET: https://{hostname}/api/projects/{projectid}/mail/{mailId}
```

#### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element                         | Type (maxlength) | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                            | Group            | 1           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MailId                          | Attribute String | 1           | This is the mail id of the mail.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| * ApprovalStatus                | String           | 1           | One of : <ul style="list-style-type: none"> <li>• Don't Process</li> <li>• Error</li> <li>• Waiting Approval</li> <li>• Approved</li> <li>• Rejected</li> </ul>                                                                                                                                                                                                                                                                                    |
| * Attachments                   | Group            | 1           | This section lists attachments on this mail.                                                                                                                                                                                                                                                                                                                                                                                                       |
| ** RegisteredDocumentAttachment | Group            | 0..n        | Registered documents may <b>only</b> be attached to mail items of "Transmittal" or "Tender Transmittal" mail type (CorrespondenceType response field).                                                                                                                                                                                                                                                                                             |
| ** attachmentId                 | Attribute String | 1           | This is a reference to a registered document. <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. attachmentId is <b>not</b> the same value as the documentId. Please refer to the <i>Download Mail Attachment</i> API service for further information.</li> <li>2. When the transmittal attachment is confidential AND the user is not in the transmittal recipient list or documents access list, attachmentId is omitted.</li> </ol> |
| *** Confidential                | boolean          | 1           | Confidentiality status of the attached registered document, as determined from the sender's point of view. <p><b>Note:</b> This status value is retained if the correspondence is forwarded, with attachments intact; i.e the status always reflects the current confidentiality of the <b>original</b> sender's document, even after the correspondence has been sent.</p>                                                                        |

|                        |                      |      |                                                                                                                                                                                                                                                                                                                                    |
|------------------------|----------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** DocumentId         | String               | 0..1 | The id of the registered document attached to this sent mail.<br><br><b>Note:</b> This document belongs to the sender of the mail and is only available to sender organization users; i.e. is not provided for received mail of which RegisteredAs is the relevant field.                                                          |
| *** DocumentNo         | String(30)           | 1    | The document number of the registered document attached to this mail.                                                                                                                                                                                                                                                              |
| *** FileName           | String(255)          | 1    | The filename of the registered document attached to this mail.                                                                                                                                                                                                                                                                     |
| *** FileSize           | Long (64-bit signed) | 1    | The filesize (measured in bytes) of the registered document attached to this mail.                                                                                                                                                                                                                                                 |
| *** Revision           | String(15)           | 1    | The revision value associated with the registered document.                                                                                                                                                                                                                                                                        |
| *** RevisionDate       | String               | 1    | UTC Timezone in the format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                            |
| *** RegisteredAs       | String               | 0..1 | The id of the attached registered document in the recipient organization's document register.<br><br><b>Note:</b> This is available only if the document has already been registered from the mail. Also only available to recipient organizations; i.e. is not provided for sent mails of which documentId is the relevant field. |
| *** Status             | String(20)           | 1    | The status value associated with the registered document.                                                                                                                                                                                                                                                                          |
| *** Title              | String(120)          | 1    | The title value associated with the registered document.                                                                                                                                                                                                                                                                           |
| ** LocalFileAttachment | Group                | 0..n | Local files may <b>only</b> be attached to mail items that are <b>not</b> either "Transmittal" or "Tender Transmittal" mail types (CorrespondenceType response field).                                                                                                                                                             |
| ** attachmentId        | Attribute String     | 1    | This is a reference to the attached file. Please refer to the <i>Download Mail Attachment</i> API service for further information.                                                                                                                                                                                                 |
| *** FileSize           | Long (64-bit signed) | 1    | The filesize of the attachment (measured in bytes).                                                                                                                                                                                                                                                                                |
| *** FileName           | String(255)          | 1    | The filename of the attachment.                                                                                                                                                                                                                                                                                                    |
| ** MailAttachment      | Group                | 0..n | Other mails may be attached to mails of <b>any</b> mail type.                                                                                                                                                                                                                                                                      |
| *** MailId             | String               | 1    | The id of the mail attached to this mail.<br><br><b>Note:</b> This id may be specified to the <i>View Mail Metadata</i> API service to obtain more information for the attached mail.                                                                                                                                              |
| *** FromName           | String(61)           | 1    | FirstName + " " + LastName                                                                                                                                                                                                                                                                                                         |
| *** FromOrg            | String(60)           | 1    | The organization's Trading Name.                                                                                                                                                                                                                                                                                                   |
| *** MailNo             | String(26)           | 1    | The mail number of the attached mail.                                                                                                                                                                                                                                                                                              |
| *** SentDate           | String               | 1    | UTC Timezone in the format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                            |
| *** Subject            | String(250)          | 1    |                                                                                                                                                                                                                                                                                                                                    |
| * Attribute1           | Group                | 0..1 |                                                                                                                                                                                                                                                                                                                                    |
| ** AttributeTypeNames  | Group                | 1    |                                                                                                                                                                                                                                                                                                                                    |
| *** AttributeTypeName  | String(200)          | 0..n |                                                                                                                                                                                                                                                                                                                                    |
| ** AttributeType       | String               | 1    | Constant: PRIMARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                        |
| * Attribute2           | Group                | 0..1 |                                                                                                                                                                                                                                                                                                                                    |
| ** AttributeTypeNames  | Group                | 1    |                                                                                                                                                                                                                                                                                                                                    |
| *** AttributeTypeName  | String(200)          | 0..n |                                                                                                                                                                                                                                                                                                                                    |
| ** AttributeType       | String               | 1    | Constant: SECONDARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                      |
| * Attribute3           | Group                | 0..1 |                                                                                                                                                                                                                                                                                                                                    |
| ** AttributeTypeNames  | Group                | 1    |                                                                                                                                                                                                                                                                                                                                    |
| *** AttributeTypeName  | String(200)          | 0..n |                                                                                                                                                                                                                                                                                                                                    |
| ** AttributeType       | String               | 1    | Constant: THIRD_ATTRIBUTE                                                                                                                                                                                                                                                                                                          |
| * Attribute4           | Group                | 0..1 |                                                                                                                                                                                                                                                                                                                                    |
| ** AttributeTypeNames  | Group                | 1    |                                                                                                                                                                                                                                                                                                                                    |

|                       |                  |       |                                                                                                                                                                                                               |
|-----------------------|------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** AttributeTypeName | String(200)      | 0..n  |                                                                                                                                                                                                               |
| ** AttributeType      | String           | 1     | Constant: FOURTH_ATTRIBUTE                                                                                                                                                                                    |
| * MailData            | String           | 1     | The body of the mail.<br><br><b>Note:</b> Includes formatting metadata such as font and text alignment. The mail body is capped at a maximum size of 2GB.                                                     |
| * ConfidentialFlag    | Short            | 1     | 0 = Not Confidential<br>1 = Confidential                                                                                                                                                                      |
| * ProjectDetails      | Group            | 1     |                                                                                                                                                                                                               |
| ** address1           | String(80)       | 1     |                                                                                                                                                                                                               |
| ** address2           | String(80)       | 1     |                                                                                                                                                                                                               |
| ** address3           | String(80)       | 1     |                                                                                                                                                                                                               |
| ** city               | String(50)       | 1     |                                                                                                                                                                                                               |
| ** country            | String(100)      | 1     |                                                                                                                                                                                                               |
| ** logoPath           | String(510)      | 1     |                                                                                                                                                                                                               |
| ** name               | String(200)      | 1     |                                                                                                                                                                                                               |
| ** postCode           | String(20)       | 1     |                                                                                                                                                                                                               |
| ** state              | String(50)       | 1     |                                                                                                                                                                                                               |
| * CorrespondenceType  | String(60)       | 1     |                                                                                                                                                                                                               |
| * ToUsers             | Group            | 1     |                                                                                                                                                                                                               |
| ** Recipient          | Group            | 1..n  |                                                                                                                                                                                                               |
| *** OrganizationId    | String           | 1     |                                                                                                                                                                                                               |
| *** OrganizationName  | String(60)       | 1     |                                                                                                                                                                                                               |
| *** Status            | String           | 1     | Specifies the status of the mail for this distribution which will be one of:<br><br><ul style="list-style-type: none"> <li>• OUTSTANDING</li> <li>• N/A</li> <li>• RESPONDED</li> <li>• CLOSED-OUT</li> </ul> |
| *** DistributionType  | String           | 1     | One of;<br><br><ul style="list-style-type: none"> <li>• TO</li> <li>• CC</li> <li>• BCC</li> </ul>                                                                                                            |
| *** Name              | String(87)       | 1     | The name of the recipient (including title).                                                                                                                                                                  |
| *** UserId            | String           | 1     |                                                                                                                                                                                                               |
| * MailNo              | String(26)       | 1     |                                                                                                                                                                                                               |
| * Fax                 | String(42)       | 1     |                                                                                                                                                                                                               |
| * Footer              | String(700)      | 1     |                                                                                                                                                                                                               |
| * FromUserDetails     | Group            | 1     |                                                                                                                                                                                                               |
| ** OrganizationId     | String           | 1     |                                                                                                                                                                                                               |
| ** LogoPath           | Group            | 0...1 | This element will contain an attribute providing the full HTTP path to the logo of the said organization, provided one had been set at the time of creation for this mail.                                    |
| ** href               | Attribute String | 0...1 | If the LogoPath element is present, this attribute will exist and its value will be a full HTTP path to the sender organization's logo at the time of creation for this mail.                                 |
| ** OrganizationName   | String(60)       | 1     |                                                                                                                                                                                                               |
| ** Name               | String(87)       | 1     | The name of the sender (including title).                                                                                                                                                                     |
| ** UserId             | String           | 1     |                                                                                                                                                                                                               |
| * InRefToMailId       | String           | 1     | The id of the "In Ref To" item that this mail refers to.                                                                                                                                                      |
| * Notes               | Group            | 1     |                                                                                                                                                                                                               |

|                             |                  |       |                                                                                                                                                                                                                                                                                           |
|-----------------------------|------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** Note                     | Group            | 0..n  |                                                                                                                                                                                                                                                                                           |
| *** FromUserId              | String           | 1     |                                                                                                                                                                                                                                                                                           |
| *** NoteContents            | String           | 1     | Up to 2GB per note.                                                                                                                                                                                                                                                                       |
| *** TimeCreated             | String           | 1     | UTC timezone yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                 |
| * ProjectId                 | String           | 1     |                                                                                                                                                                                                                                                                                           |
| * ReasonForIssue            | String(200)      | 1     | May be an empty element.                                                                                                                                                                                                                                                                  |
| * ResponseRequired          | Group            | 0..1  |                                                                                                                                                                                                                                                                                           |
| ** ResponseRequiredDate     | DateTime         | 1     | UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                   |
| ** ResponseRequiredMessage  | String           | 1     | May be an empty element.                                                                                                                                                                                                                                                                  |
| * RichMailText              | Boolean          | 1     |                                                                                                                                                                                                                                                                                           |
| * MailRegistrationDetails   | Group            | 1     | Data contained in this element's children allow you to determine if the mail has been registered into the organization's Inbox (or not).                                                                                                                                                  |
| ** IsRegistered             | Boolean          | 1     | A true/false value where true means the mail is a registered mail.                                                                                                                                                                                                                        |
| ** RegisteredByUserFullName | String           | 0...1 | The full name (including title) of the person who registered the mail.<br><b>Note:</b> This will only appear if the IsRegistered value is true.                                                                                                                                           |
| ** RegisteredByUserId       | String           | 0...1 | The user id of the person who registered the mail.<br><b>Note:</b> This will only appear if the IsRegistered value is true.                                                                                                                                                               |
| * SentDate                  | String           | 1     | UTC timezone yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                 |
| * Status                    | String(20)       | 1     | Specifies the status of the (overall) mail which will be one of: <ul style="list-style-type: none"> <li>• OUTSTANDING</li> <li>• N/A</li> <li>• RESPONDED</li> <li>• PARTIAL</li> <li>• CLOSED-OUT</li> </ul>                                                                             |
| * Subject                   | String(250)      | 1     |                                                                                                                                                                                                                                                                                           |
| * ThreadId                  | String           | 1     | The id of the thread that this mail belongs to.                                                                                                                                                                                                                                           |
| * FaxLog                    | Boolean          | 1     | Indicates if the mail is associated to a FaxLog.                                                                                                                                                                                                                                          |
| * MailFormFields            | Group            | 0..1  | List of <a href="#">mail form field</a> values.                                                                                                                                                                                                                                           |
| ** MailFormField            | Group            | 1..n  |                                                                                                                                                                                                                                                                                           |
| *** DataType                | String           | 1     | The <a href="#">mail form field</a> data type which will be one of: <ul style="list-style-type: none"> <li>• BOOLEAN</li> <li>• SINGLE_LINE_TEXT</li> <li>• MULTI_LINE_TEXT</li> <li>• DATE</li> <li>• NUMBER</li> <li>• SINGLE_SELECT</li> <li>• MULTI_SELECT</li> <li>• USER</li> </ul> |
| *** Identifier              | String           | 1     | Mail form field identifier.                                                                                                                                                                                                                                                               |
| *** Label                   | String           | 1     | Localized mail form field label.                                                                                                                                                                                                                                                          |
| *** Value                   | String           | 1     | <a href="#">Mail form field</a> value (may be an empty element).<br>Date value is in ISO 8601 format i.e. yyyy-MM-dd.                                                                                                                                                                     |
| *** Specifications          | Group            | 0..1  | Contextual information for the <a href="#">mail form field</a> value e.g. unit name/quantity.                                                                                                                                                                                             |
| **** Specification          | Group            | 1..n  |                                                                                                                                                                                                                                                                                           |
| **** name                   | Attribute String | 1     | Specification name (refer to Unit Table): <ul style="list-style-type: none"> <li>• unitQuantity (e.g. length)</li> <li>• unitName (e.g. metre)</li> </ul>                                                                                                                                 |
| * RestrictedFields          | Group            | 0..1  | List of restricted field values.                                                                                                                                                                                                                                                          |

|                    |                  |      |                                                                                                                                                                                                                                                                            |
|--------------------|------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** RestrictedField | Group            | 1..n |                                                                                                                                                                                                                                                                            |
| *** DataType       | String           | 1    | The restricted field data type which will be one of: <ul style="list-style-type: none"> <li>• BOOLEAN</li> <li>• SINGLE_LINE_TEXT</li> <li>• MULTI_LINE_TEXT</li> <li>• DATE</li> <li>• NUMBER</li> <li>• SINGLE_SELECT</li> <li>• MULTI_SELECT</li> <li>• USER</li> </ul> |
| *** Identifier     | String           | 1    | Restricted field identifier.                                                                                                                                                                                                                                               |
| *** Label          | String           | 1    | Localized restricted field label.                                                                                                                                                                                                                                          |
| *** Value          | String           | 1    | Restricted field value (may be an empty element).<br>Date value is in ISO 8601 format i.e. yyyy-MM-dd.                                                                                                                                                                     |
| *** Specifications | Group            | 0..1 | Contextual information for the restricted field value e.g. unit name/quantity.                                                                                                                                                                                             |
| **** Specification | Group            | 1..n |                                                                                                                                                                                                                                                                            |
| **** name          | Attribute String | 1    | Specification name (refer to Unit Table): <ul style="list-style-type: none"> <li>• unitQuantity (e.g. length)</li> <li>• unitName (e.g. metre)</li> </ul>                                                                                                                  |
| * Links            | Group            | 1    |                                                                                                                                                                                                                                                                            |
| ** Link            | No type          | 0..n | A link for a resource related to this mail                                                                                                                                                                                                                                 |
| ** rel             | Attribute        | 1    | Should be one of: <ul style="list-style-type: none"> <li>• "replyMailSchema": schema used to reply to this mail</li> <li>• "forwardMailSchema": schema used to forward this mail</li> </ul> Other resources could be added in the future.                                  |
| ** href            | Attribute        | 1    | URI for the resource                                                                                                                                                                                                                                                       |

#### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<Mail MailId="1879053551">
  ....
  <!-- THIS IS NEW -->
  <MailFormFields>
    <MailFormField>
      <DataType>DATE</DataType>
      <Identifier>deadline_date</Identifier>
      <Label>Deadline</Label>
      <Value></Value>
    </MailFormField>
    <MailFormField>
      <DataType>BOOLEAN</DataType>
      <Identifier>completed_boolean</Identifier>
      <Label>Completed?</Label>
      <Value></Value>
    </MailFormField>
    <MailFormField>
      <DataType>MULTI_LINE_TEXT</DataType>
      <Identifier>feedback_multiLineText</Identifier>
      <Label>Feedback</Label>
      <Value></Value>
    </MailFormField>
    <MailFormField>
      <DataType>SINGLE_LINE_TEXT</DataType>
      <Identifier>colour_singleLineText</Identifier>
      <Label>Favourite Colour</Label>
      <Value></Value>
    </MailFormField>
    <MailFormField>
      <DataType>NUMBER</DataType>
      <Identifier>pipelength_number_length_metre</Identifier>
      <Label>Pipe Length</Label>
      <Specifications>
        <Specification name="unitQuantity">length</Specification>
      </Specifications>
    </MailFormField>
  </MailFormFields>

```

```

        <Specification name="unitName">metre</Specification>
    </Specifications>
    <Value></Value>
</MailFormField>
<MailFormField>
    <DataType>SINGLE_SELECT</DataType>
    <Identifier>status_singleSelect</Identifier>
    <Label>Status</Label>
    <Value></Value>
</MailFormField>
<MailFormField>
    <DataType>MULTI_SELECT</DataType>
    <Identifier>Multiselectfield_multiSelect</Identifier>
    <Label>MultiSelectField</Label>
    <Value>MultiSelect-Option-2, MultiSelect-Option-3</Value>
</MailFormField>
<MailFormField>
    <DataType>USER</DataType>
    <Identifier>assignee_user</Identifier>
    <Label>Assignee</Label>
    <Value>Peter Lim Chee Goh - Majestic Builders, Antony Taylor - Majestic Builders</Value>
</MailFormField>
</MailFormFields>
<RestrictedFields>
    <RestrictedField>
        <DataType>DATE</DataType>
        <Identifier>restricted_deadline_date</Identifier>
        <Label>Deadline</Label>
        <Value>2013-10-13</Value>
    </RestrictedField>
    <RestrictedField>
        <DataType>BOOLEAN</DataType>
        <Identifier>restricted_completed_boolean</Identifier>
        <Label>Completed?</Label>
        <Value>true</Value>
    </RestrictedField>
    <RestrictedField>
        <DataType>MULTI_LINE_TEXT</DataType>
        <Identifier>restricted_instructions_multiLineText</Identifier>
        <Label>Instructions</Label>
        <Value>Please provide the comments in a bullet point format. Keep descriptions short to aid reader</
Value>
    </RestrictedField>
    <RestrictedField>
        <DataType>SINGLE_LINE_TEXT</DataType>
        <Identifier>restricted_preferredFormat_singleLineText</Identifier>
        <Label>Preferred Format</Label>
        <Value>plain text</Value>
    </RestrictedField>
    <RestrictedField>
        <DataType>NUMBER</DataType>
        <Identifier>restricted_distance_number_length_metre</Identifier>
        <Label>Distance</Label>
        <Specifications>
            <Specification name="unitQuantity">length</Specification>
            <Specification name="unitName">metre</Specification>
        </Specifications>
        <Value>123</Value>
    </RestrictedField>
    <RestrictedField>
        <DataType>SINGLE_SELECT</DataType>
        <Identifier>restricted_status_singleSelect</Identifier>
        <Label>Status</Label>
        <Value>Rejected</Value>
    </RestrictedField>
    <RestrictedField>
        <DataType>MULTI_SELECT</DataType>
        <Identifier>Restrictedmultiselectfield_multiSelect</Identifier>
        <Label>RestrictedMultiSelectField</Label>
        <Value>RF-MultiSelect-Option-1, RF-MultiSelect-Option-4</Value>
    </RestrictedField>
    <RestrictedField>
        <DataType>USER</DataType>
        <Identifier>restricted_assignee_user</Identifier>
        <Label>Assignee</Label>
        <Value>Peter Lim Chee Goh - Majestic Builders, Antony Taylor - Majestic Builders</Value>
    </RestrictedField>

```

```
</RestrictedFields>
<Links>
  <Link rel="replyMailSchema" href="/api/projects/1879048400/mail/1879053112/schema/reply"/>
  <Link rel="forwardMailSchema" href="/api/projects/1879048400/mail/1879053112/schema/forward"/>
</Links>
</Mail>
```

## Mark Mail as Read

### Mark Mail As Read

This service marks mail items as read.

#### Notes:

1. The user must be a recipient of the mail.
2. This will also remove unread tasks for the user.

### URL structure

```
HTTP PUT: https://{hostname}/api/projects/{projectid}/mail/{mailid}/markRead
```

### Parameters

No Parameters

### Request Fields

This operation have no request body.

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/1879053540/markRead
```

### Response Fields

No Response Body. Only "Status OK" will be returned if no error occurred.

### Error Codes specific to the service

| StatusCode                   | Description                                                          | Http Status Code |
|------------------------------|----------------------------------------------------------------------|------------------|
| ENTITY_NOT_FOUND             | The mail id specified does not correspond to an actual mail          | 400              |
| ENTITY_NOT_VISIBLE           | The mail trying to be viewed is not visible to the requesting user   | 401              |
| ENTITY_NOT_FOUND_FOR_PROJECT | The mail trying to be viewed does not exist on the specified project | 400              |

### Prerequisites

#### Required Permissions

Should have required permissions and setup for accessing APIs

#### Preferences/Module Setup

Not Applicable.

### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The service will not mark the mail as read if the user is not the recipient of the mail.

The service returns Status OK even if the mail is already read.

Related APIs

- View Mail Metadata

Mark Mail as Unread

Mark Mail As Unread

This service marks mail items as Unread.

Notes:

1. The user must be a recipient of the mail.
2. This will also add unread tasks for the user.

URL structure

HTTP PUT: https://{hostname}/api/projects/{projectid}/mail/{mailid}/markUnread

Parameters

No Parameters

Request Fields

This operation have no request body.

Sample request

https://au1.aconex.com/api/projects/1879048400/mail/1879053540/markUnread

Response Fields

No Response Body. Only "Status OK" will be returned if no error occurred.

Error Codes specific to the service

| StatusCode                   | Description                                                          | Http Status Code |
|------------------------------|----------------------------------------------------------------------|------------------|
| ENTITY_NOT_FOUND             | The mail id specified does not correspond to an actual mail          | 400              |
| ENTITY_NOT_VISIBLE           | The mail trying to be viewed is not visible to the requesting user   | 401              |
| ENTITY_NOT_FOUND_FOR_PROJECT | The mail trying to be viewed does not exist on the specified project | 400              |

Prerequisites

Required Permissions

Should have required permissions and setup for accessing APIs

Preferences/Module Setup

Not Applicable.

Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The service will not mark the mail as Unread if the user is not the recipient of the mail.

The service returns Status OK even if the mail is already Unread.

Related APIs

- View Mail Metadata
- Mark Mail as Read

Download Mail Attachment

Download Mail Attachment

The service retrieves a single attachment file associated with the specified mail item.

Notes:

1. If the attachment is a file containing markups, the marked-up version can be downloaded by adding the optional keyword "markedup" to the URL.
2. Marked up attachments are returned in PDF format. Attachments without markup are retrieved in their original format.
3. The filename of the attachment will be stripped of semi-colons, should any exist.
4. All files retrieved are base-64 encoded.
5. This API honors the project preference Rename files on download to include Document Number and Revision when the attachment is a registered document. When this preference is enabled, files downloaded through the API are renamed to include the document number and revision, consistent with downloads from the web UI.
6. The Content-Disposition response header includes both filename and filename\* parameters. The filename\* parameter is the UTF-8 capable parameter, so clients that support it can usually decode it and recover the correct filename. The filename parameter, is intended to be an ASCII-safe fallback for clients that do not consume filename\*.

URL structure

HTTP GET: https://{hostname}/api/projects/{projectid}/mail/{mailid}/attachments/{attachmentid}/[markedup]

Parameters

| Parameters | Type(maxlength) | Cardinality | Notes |
|------------|-----------------|-------------|-------|
|------------|-----------------|-------------|-------|

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

https://au1.aconex.com/api/projects/1879048400/mail/1879099264/attachments/1879027449/markedup

Response Fields

Not applicable. The response is a binary stream of the file associated with the attachment.

Sample response

Not applicable.

Error Codes Specific to the Service

| StatusCode                      | Description                                    | HTTP Status Code |
|---------------------------------|------------------------------------------------|------------------|
| CANNOT_DOWNLOAD_MAIL_ATTACHMENT | Cannot download an attachment which is a mail. | 400 Bad Request  |

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not applicable.

Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The authorizing user cannot download the file attachment if the mail item is both marked as "Confidential" and where the authorizing user is **not** a recipient (or the sender for sent mails).

Due to the URL structure, the service can only retrieve one attachment at a time. Unlike the GUI, the service cannot retrieve multiple attachments in a single request.

The service can only return file attachments. Attachments that are other mail items cannot be retrieved using this service, instead please refer to *View Mail Metadata* API service for further information.

Related APIs

- List Mail
- View Mail Metadata

Create Mail

Create Mail (Version 2)

The service creates a new mail item in the specified project.

Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name          | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                             |
|---------------------|------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                | Group                  | 1           |                                                                                                                                                                                   |
| * AttachedDocId     | String                 | 0..n        |                                                                                                                                                                                   |
| * Attribute1+       | String(200)            | 0..n        |                                                                                                                                                                                   |
| * Attribute2+       | String(200)            | 0..n        |                                                                                                                                                                                   |
| * Attribute3+       | String(200)            | 0..n        |                                                                                                                                                                                   |
| * Attribute4+       | String(200)            | 0..n        |                                                                                                                                                                                   |
| * BccUserId         | String                 | 0..n        | UserId(s) of BCC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                              |
| * CcUserId          | String                 | 0..n        | UserId(s) of CC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                               |
| * Confidential      | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail |
| * MailBody          | String(2GB)            | 0..1        | If body contains html or special characters, the content must be escaped or enclosed in a CDATA tag: For e.g. <![CDATA[<h1>Test Header </h1><b>test mail ]]>                      |
| * MailSubject*      | String(250)            | 1           |                                                                                                                                                                                   |
| * MailTypeId*       | Integer(32-bit signed) | 1           |                                                                                                                                                                                   |
| * ReasonForIssue+   | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                   |
| * ResponseRequired+ | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                   |

|                         |                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * ResponseRequiredDate  | String                 | 0..1 | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                                                                                                                                 |
| * RichMailText*         | Boolean                | 1    | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text.                                                                                                                                                                                                                                                                                                                                            |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1    | Value of '0' if no the correspondence contains no attachments                                                                                                                                                                                                                                                                                                                                                                                                                       |
| * ToUserId*             | String                 | 0..n | UserId(s) of TO recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                                                                                                                 |
| * MailFormFields+       | Group                  | 0..1 | Mail Form field values.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ** MailFormField+       | String                 | 0..n | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"> <li>boolean: true, false</li> <li>number: 123, 145.3, -45 etc</li> <li>date: yyyy-mm-dd e.g. 2014-02-23</li> <li>singleLineText: single line of text</li> <li>multiLineText: text separated by newline characters</li> <li>singleSelect: option text</li> <li>multiSelect: option text</li> <li>user: user id. if one field has multiple values, they should be in separate elements</li> </ul>  |
| ** identifier*          | Attribute              | 1    | Mail Form field identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| * RestrictedFields+     | Group                  | 0..1 | Restricted field values.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ** RestrictedField+     | String                 | 0..n | Restricted field value. Allowed values per type: <ul style="list-style-type: none"> <li>boolean: true, false</li> <li>number: 123, 145.3, -45 etc</li> <li>date: yyyy-mm-dd e.g. 2014-02-23</li> <li>singleLineText: single line of text</li> <li>multiLineText: text separated by newline characters</li> <li>singleSelect: option text</li> <li>multiSelect: option text</li> <li>user: user id. if one field has multiple values, they should be in separate elements</li> </ul> |
| ** identifier*          | Attribute              | 1    | Restricted field identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Specifying Header for API Version 2

The Content-Type header of the entire payload must be "multipart/mixed".

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v2+xml", and **there must be an empty line** between the header and the XML payload.

### Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/

[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary
Content-Type: application/vnd.aconex.mail.v2+xml

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>
<MailBody>
...
</MailBody>
```

```
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>4</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="job_singleLineText">Software Engineer</MailFormField>
  <MailFormField identifier="experience_multiLineText">Experienced in all aspects of the software lifecycle.<
/MailFormField>
  <MailFormField identifier="satisfaction_singleSelect">High</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
  <MailFormField identifier="commute_number_length_kilometre">25</MailFormField>
  <MailFormField identifier="assignee_user">1879049124</MailFormField>
  <MailFormField identifier="assignee_user">1879049123</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_paymentdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_job_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_experience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_satisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RFMultiSelect-Option-1<
/RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RFMultiSelect-Option-2<
/RestrictedField>
  <RestrictedField identifier="restricted_commute_number_length_kilometre">25</RestrictedField>
  <RestrictedField identifier="assignee_user">1879049249</MailFormField>
  <RestrictedField identifier="assignee_user">1879049250</MailFormField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary
X-DocumentId: 1879099024

--myboundary
X-DocumentId: 1879099380

--myboundary
X-MailId: 1879048223

--myboundary
X-Filename: localFile01.pdf

%PDF-1.2
%âãÿÓ

1 0 obj
<<
/Type /Catalog
/Pages 3 0 R
/Outlines 2 0 R
>>
endobj
2 0 obj
<<
/Type /Outlines
/Count 0
>>
endobj
3 0 obj
<<
/Type /Pages
/Count 1
/Kids [6 0 R ]
>>
endobj
4 0 obj
[/PDF /ImageC ]
```

```
endobj
5 0 obj
<<
/Producer (ViewCompanion)
/CreationDate (Monday, 22 May 2006 12:40:35 AM)
>>
endobj
7 0 obj
<</Length 8 0 R
/Filter [/FlateDecode]

>>
stream
xœi»»@eÉ®,æ`ÿÄþ,Âx?Üâ©6...ë]@€PÓ'£ß×`2,fŽU|Ö8,,ãTwEEæïA2ß$sp÷ÿù`ÿ~ÿý¿þè?¡ó4ý[ÿüßþ-7ðÿú?
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ıµ/O¿7"ê:ÿX‰æ×FVü9Wum¶²...6KmıĒ ©ÃJ3ŽFEMş#•] h@*mür ...6ÿ,`ÍÆr*Ū>:Ùç6]θ-GÀ¿ViàI{ }þ=m¿~İgııŬkh³OI{"zo=ı¼-«Ōž1êêı63
&-O_0³ÿĒ°- kù€{úq÷ı¿İkùÁŞ>M{G:³Q!Y'X;Ōðc{&KYÓ'Øµ Ō†ŌŌ"±@Ēù©z{ðáóG"è>u8&4ĐLÇ@:ÚtĂ`¬÷Ž}#Ag²;-
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UúEI;±Ū!,ª´k+ šSksw´PVŌ!Ē
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,Z>≥ı!Űü¥Žt4ó¤6Ē•-f*k+fjĐ|@ŰŪ|Đæºÿñ™>Ē<5òoŌfĒ}ŌÑĀÈ‰#OFÎÚŚ'-Ē<5òendstream
endobj
8 0 obj
419504
endobj
6 0 obj
<<
/Type /Page
/Parent 3 0 R
/Resources <<
/ProcSet 4 0 R
>>
/MediaBox [ 0 0 2306 1610 ]
/CropBox [ 0 0 2306 1610 ]
/Contents 7 0 R
>>
endobj
xref
0 9
0000000000 65535 f
0000000002 1 00000 n
0000000093 0 0000 n
00000000145 0 0000 n
0000000211 0 0000 n
0000000245 0 0000 n
0000419956 0 0000 n
00000000346 0 0000 n
0000419931 0 0000 n
trailer
<<
/Size 9
/Root 1 0 R
/Info 5 0 R
>>
startxref
420118
%%EOF

--myboundary
X-Filename: localFile02.xls

l=XıôĀ`ēáuP1»MhŸ9£Mà-İV@dDAı×aV×B™[Ÿ^fJĀ-P$`Ō„AŪV^...óıf
İH ín÷þÜ-Æé"á€d>òzİü`næ"ÇŚ¹ €Ō©đ'>äbµ- -&ûŬîĀ¤2»Æv¹÷þĀKyİ¼¤óòD:²¤ææ,AGM`Ō\nzĒÇıŬĀ™ă‰.uİ†YC‰6ıOMF`â3o¶rĀŬ$`Ā5...
µüăĀNH...T[XF64İT,Næ~ŪĒMŌēE)`#ÿ5¤XYf`ø¤¤

--myboundary--
```

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">

    <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

### Sample error response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
    <ErrorCode>FIELD_LENGTH_EXCEEDED</ErrorCode>
    <ErrorDescription>Field colour_singleLineText exceeded the max. allowed length 20: sfsdf1;kf;dk;lkf;ldssfsdfsdfs</ErrorDescription>
    <RequestID>if6e2vpa</RequestID>
    <SystemTime>2015-09-30T16:05:35.007+10:00</SystemTime>
</Error>
```

### Saving to Drafts

To save to drafts, add the optional query parameter `is_draft` with value 'true' like the sample below:

[https://au1.aconex.com/api/projects/1879048422/mail?is\\_draft=true](https://au1.aconex.com/api/projects/1879048422/mail?is_draft=true)

The request payload remains the same, and the response comes with **sendStatus="Drafted"** for the **SendMailResult** element.

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>

<SendMailResult sendStatus="Drafted">
    <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

### Error Codes Specific to the Service

| Status Code                       | Description                                                                                                              | HTTP Status Code |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------|
| Status Code                       | Description                                                                                                              | HTTP Status Code |
| BAD_BASE64_DATA                   | The base64 data for the file <filename> was found to be invalid...                                                       | 400 Bad Request  |
| NO_RECIPIENTS                     | No recipients to send mail to specified                                                                                  | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                      | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                            | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : Cannot send to recipients that are not in the same organization    | 400 Bad Request  |
| INVALID_FUTURE_DATE               | The date [InvalidDate] for the field [FieldName] must be in the future                                                   | 400 Bad Request  |
| INVALID_FIELD_VALUE               | Provided value [InvalidValue] is not valid for field <Fieldname>                                                         | 400 Bad Request  |
| UNEXPECTED_FIELD_VALUE            | User provided unnecessary property value. ReasonForIssue is only valid certain mail types.                               | 400 Bad Request  |
| MULTIPLE_ATTACHMENT_HEADERS_FOUND | Multiple headers received for multipart attachment <code>x-document, -abcdefg-</code> . Only a single header is expected | 400 Bad Request  |

|                                |                                                                                                                                                                |                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| INVALID_ATTACHMENT_COUNT       | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments        | 400 Bad Request |
| CANNOT_ATTACH_LOCAL_FILES      | Cannot attach local files for mail type which is a transmittal                                                                                                 | 400 Bad Request |
| FIELD_LENGTH_EXCEEDED          | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                             | 400 Bad Request |
| FIELD_LENGTH_TOO_SHORT         | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                             | 400 Bad Request |
| DUPLICATED_FIELD               | Provided multiple mail form fields / restricted fields with same identifier                                                                                    | 400 Bad Request |
| INVALID_FIELD_IDENTIFIER       | Provided mail form field / restricted field which is not associated with this mail type or provided restricted field that does not belong to this organisation | 400 Bad Request |
| INVALID_FIELD_HIERARCHY_VALUES | Provided mail form field values do not correspond to hierarchy values defined on the project                                                                   | 400 Bad Request |

## Reply Mail

### Reply Mail (Version 2)

The service creates a reply to an existing mail item in the specified project.

#### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name              | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                                        |
|-------------------------|------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                    | Group                  | 1           |                                                                                                                                                                                                              |
| * Attribute1+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute2+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute3+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute4+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * BccUserId             | String                 | 0..n        | UserId(s) of BCC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                         |
| * CcUserId              | String                 | 0..n        | UserId(s) of CC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                          |
| * Confidential          | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this mail.<br><br><b>Note:</b> An exception is where a user has the secured asset to search ANY confidential mail.                     |
| * MailBody              | String(2GB)            | 0..1        |                                                                                                                                                                                                              |
| * MailSubject*          | String(250)            | 1           |                                                                                                                                                                                                              |
| * MailTypeId*           | Integer(32-bit signed) | 1           |                                                                                                                                                                                                              |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                              |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                              |
| * ResponseRequiredDate  | String                 | 0..1        | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-ddT'hh:mm:ss.SSS'Z'                                                                                                           |
| * RichMailText*         | Boolean                | 1           | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text                                                                      |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1           | The number of attachments expected in this correspondence. This value is verified against the total number of "parts" included in the request. A value of '0' if the correspondence contains no attachments. |

|                     |           |      |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * ToUserId*         | String    | 0..n | UserId(s) of TO recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                                 |
| * MailFormFields+   | Group     | 0..1 | Mail Form field values.                                                                                                                                                                                                                                                                                                                                                                             |
| ** MailFormField+   | String    | 0..n | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"> <li>• boolean: true, false</li> <li>• number: 123, 145.3, -45 etc</li> <li>• date: yyyy-mm-dd e.g. 2014-02-23</li> <li>• singleLineText: single line of text</li> <li>• multiLineText: text separated by newline characters</li> <li>• singleSelect: option text</li> <li>• multiSelect: option text</li> </ul>  |
| ** identifier*      | Attribute | 0..1 | Mail Form field identifier                                                                                                                                                                                                                                                                                                                                                                          |
| * RestrictedFields+ | Group     | 0..1 | Restricted field values.                                                                                                                                                                                                                                                                                                                                                                            |
| ** RestrictedField+ | String    | 0..n | Restricted field value. Allowed values per type: <ul style="list-style-type: none"> <li>• boolean: true, false</li> <li>• number: 123, 145.3, -45 etc</li> <li>• date: yyyy-mm-dd e.g. 2014-02-23</li> <li>• singleLineText: single line of text</li> <li>• multiLineText: text separated by newline characters</li> <li>• singleSelect: option text</li> <li>• multiSelect: option text</li> </ul> |
| ** identifier*      | Attribute | 1    | Restricted field identifier                                                                                                                                                                                                                                                                                                                                                                         |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Specifying Header for API Version 2

The Content-Type header of the entire payload must be "multipart/mixed".

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v2+xml", and **there must be an empty line** between the header and the XML payload.

### Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/1879049444/reply
```

```

[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>
<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>0</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_cpaymentdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_cjob_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_cexperience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_csatisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="restricted_ccommute_number_length_kilometre">25</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-1<
/RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-2<
/RestrictedField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary--

```

#### Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
  <SendMailResult sendStatus="MailSent">

    <NewMailId>1879053577</NewMailId>
  </SendMailResult>

```

#### Sample error response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>FIELD_LENGTH_EXCEEDED</ErrorCode>
  <ErrorDescription>Field colour_singleLineText exceeded the max. allowed length 20: sfsdf1;kf;dk;lkf;
ldssfsdfsdfs</ErrorDescription>
  <RequestID>if6e2vpa</RequestID>
  <SystemTime>2015-09-30T16:05:35.007+10:00</SystemTime>
</Error>
```

### Saving to Drafts

To save to drafts, add the optional query parameter `is_draft` with value 'true' like the sample below:

[https://au1.aconex.com/api/projects/1879048422/mail/1879049444/reply?is\\_draft=true](https://au1.aconex.com/api/projects/1879048422/mail/1879049444/reply?is_draft=true)

The request payload remains the same, and the response comes with **sendStatus="Drafted"** for the **SendMailResult** element.

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
  <SendMailResult sendStatus="Drafted">

    <NewMailId>1879053577</NewMailId>
  </SendMailResult>
```

### Error Codes Specific to the Service

| Status Code              | Description                                                                                                                                                    | HTTP Status Code |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Status Code              | Description                                                                                                                                                    | HTTP Status Code |
| BAD_BASE64_DATA          | The base64 data for the file <filename> was found to be invalid...                                                                                             | 400 Bad Request  |
| NO_RECIPIENTS            | No recipients to send mail to specified                                                                                                                        | 400 Bad Request  |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                            | 400 Bad Request  |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                                  | 400 Bad Request  |
| INVALID_FIELD_VALUE      | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                               | 400 Bad Request  |
| INVALID_ATTACHMENT_COUNT | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments        | 400 Bad Request  |
| UNEXPECTED_FIELD_VALUE   | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                                | 400 Bad Request  |
| FIELD_LENGTH_EXCEEDED    | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                             | 400 Bad Request  |
| FIELD_LENGTH_TOO_SHORT   | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                             | 400 Bad Request  |
| DUPLICATED_FIELD         | Provided mail form custom fields / restricted fields with same identifier                                                                                      | 400 Bad Request  |
| INVALID_FIELD_IDENTIFIER | Provided mail form field / restricted field which is not associated with this mail type or provided restricted field that does not belong to this organisation | 400 Bad Request  |

## Forward Mail

### Forward Mail (Version 2)

The service creates a forward of an existing mail item in the specified project.

### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name              | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                    | Group                  | 1           |                                                                                                                                                                                                                                                                                                                                                                                            |
| * Attribute1+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                            |
| * Attribute2+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                            |
| * Attribute3+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                            |
| * Attribute4+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                                                            |
| * BccUserId             | String                 | 0..n        | UserId(s) of BCC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                       |
| * CcUserId              | String                 | 0..n        | UserId(s) of CC recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                        |
| * Confidential          | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail                                                                                                                                                                                                          |
| * MailBody              | String(2GB)            | 0..1        |                                                                                                                                                                                                                                                                                                                                                                                            |
| * MailSubject*          | String(250)            | 1           |                                                                                                                                                                                                                                                                                                                                                                                            |
| * MailTypeId*           | Integer(32-bit signed) | 1           |                                                                                                                                                                                                                                                                                                                                                                                            |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                                                                                                                                                                                                            |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                                                                                                                                                                                                            |
| * ResponseRequiredDate  | String                 | 0..1        | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                                        |
| * RichMailText*         | Boolean                | 1           | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, ie Set to plain text                                                                                                                                                                                                                                               |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1           | The number of attachments expected in this correspondence. This value is verified against the total number of "parts" included in the request. A value of '0' if the correspondence contains no attachments.                                                                                                                                                                               |
| * ToUserId*             | String                 | 0..n        | UserId(s) of TO recipients. When mail distribution rule is configured to the mail type in use, recipient(s) may be added automatically by the rule.                                                                                                                                                                                                                                        |
| * MailFormFields+       | Group                  | 0..1        | Mail Form field values.                                                                                                                                                                                                                                                                                                                                                                    |
| ** MailFormField+       | String                 | 0..n        | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"><li>• boolean: true, false</li><li>• number: 123, 145.3, -45 etc</li><li>• date: yyyy-mm-dd e.g. 2014-02-23</li><li>• singleLineText: single line of text</li><li>• multiLineText: text separated by newline characters</li><li>• singleSelect: option text</li><li>• multiSelect: option text</li></ul> |
| ** identifier*          | Attribute              | 1           | Mail Form field identifier                                                                                                                                                                                                                                                                                                                                                                 |
| * RestrictedFields+     | Group                  | 0..1        | Restricted field values.                                                                                                                                                                                                                                                                                                                                                                   |

|                        |           |      |                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| **<br>RestrictedField+ | String    | 0..n | Restricted field value. Allowed values per type: <ul style="list-style-type: none"> <li>• boolean: true, false</li> <li>• number: 123, 145.3, -45 etc</li> <li>• date: yyyy-mm-dd e.g. 2014-02-23</li> <li>• singleLineText: single line of text</li> <li>• multiLineText: text separated by newline characters</li> <li>• singleSelect: option text</li> <li>• multiSelect: option text</li> </ul> |
| ** identifier*         | Attribute | 1    | Restricted field identifier                                                                                                                                                                                                                                                                                                                                                                         |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

Refer to the sample request(s) below for further detail.

### Specifying Header for API Version 2

The Content-Type header of the entire payload must be "multipart/mixed".

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v2+xml", and **there must be an empty line** between the header and the XML payload.

### Sample request

<https://au1.aconex.com/api/projects/1879048422/mail/1879049444/forward>

```
[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>
<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>5</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-2</MailFormField>
  <MailFormField identifier="Multiselectfield_multiSelect">MultiSelect-Option-4</MailFormField>
</MailFormFields>
<RestrictedFields>
  <RestrictedField identifier="restricted_completed_boolean">false</RestrictedField>
  <RestrictedField identifier="restricted_cpaymentdue_date">2013-12-20</RestrictedField>
  <RestrictedField identifier="restricted_cjob_singleLineText">Software Engineer</RestrictedField>
  <RestrictedField identifier="restricted_cexperience_multiLineText">Experienced in all aspects of the
software lifecycle.</RestrictedField>
  <RestrictedField identifier="restricted_csatisfaction_singleSelect">High</RestrictedField>
  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-Option-1</RestrictedField>

  <RestrictedField identifier="Restrictedmultiselectfield_multiSelect">RF-MultiSelect-
Option-2</RestrictedField>
  <RestrictedField identifier="restricted_ccommute_number_length_kilometre">25</RestrictedField>
</RestrictedFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary
.....
```

#### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">

  <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

#### Sample error response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>FIELD_LENGTH_EXCEEDED</ErrorCode>
  <ErrorDescription>Field colour_singleLineText exceeded the max. allowed length 20: sfsdf1;kf;dk;lkf;
ldssfsdfsdfs</ErrorDescription>
  <RequestID>if6e2vpa</RequestID>
  <SystemTime>2015-09-30T16:05:35.007+10:00</SystemTime>
</Error>
```

### Saving to Drafts

To save to drafts, add the optional query parameter `is_draft` with value 'true' like the sample below:

[https://au1.aconex.com/api/projects/1879048422/mail/1879049444/forward?is\\_draft=true](https://au1.aconex.com/api/projects/1879048422/mail/1879049444/forward?is_draft=true)

The request payload remains the same, and the response comes with **sendStatus="Drafted"** for the **SendMailResult** element.

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="Drafted">
  <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

### Error Codes Specific to the Service

| Status Code              | Description                                                                                                                                                    | HTTP Status Code |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Status Code              | Description                                                                                                                                                    | HTTP Status Code |
| BAD_BASE64_DATA          | The base64 data for the file <filename> was found to be invalid...                                                                                             | 400 Bad Request  |
| NO_RECIPIENTS            | No recipients to send mail to specified                                                                                                                        | 400 Bad Request  |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                            | 400 Bad Request  |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                                  | 400 Bad Request  |
| INVALID_FIELD_VALUE      | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                               | 400 Bad Request  |
| INVALID_ATTACHMENT_COUNT | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments        | 400 Bad Request  |
| UNEXPECTED_FIELD_VALUE   | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                                | 400 Bad Request  |
| FIELD_LENGTH_EXCEEDED    | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                             | 400 Bad Request  |
| FIELD_LENGTH_TOO_SHORT   | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                             | 400 Bad Request  |
| DUPLICATED_FIELD         | Provided mail form custom fields / restricted fields with same identifier                                                                                      | 400 Bad Request  |
| INVALID_FIELD_IDENTIFIER | Provided mail form field / restricted field which is not associated with this mail type or provided restricted field that does not belong to this organisation | 400 Bad Request  |

## Register Mail

### Register Mail (Version 2)

The service registers a new mail item on behalf of another user, in the specified project.

#### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name              | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                    | Group                  | 1           |                                                                                                                                                                                                                                                                                                                                                         |
| * AttachedDocId         | String                 | 0..n        |                                                                                                                                                                                                                                                                                                                                                         |
| * Attribute1+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                         |
| * Attribute2+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                         |
| * Attribute3+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                         |
| * Attribute4+           | String(200)            | 0..n        |                                                                                                                                                                                                                                                                                                                                                         |
| * BccUserId             | String                 | 0..n        | UserId(s) of BCC recipient. Can only be users within the same organization as the authorizing user.                                                                                                                                                                                                                                                     |
| * CcUserId              | String                 | 0..n        | UserId(s) of CC recipient. Can only be users within the same organization as the authorizing user.                                                                                                                                                                                                                                                      |
| * Confidential          | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail                                                                                                                                                                       |
| * FromUserId*           | String                 | 1           | UserId of the user that this mail is registered on behalf of. As the cardinality suggests, only a single From User may be specified                                                                                                                                                                                                                     |
| * MailBody              | String(2GB)            | 0..1        | If body contains HTML or special characters, the content must be escaped or enclosed in a CDATA tag: For e.g. <![CDATA[<h1>Test Header </h1><b>test mail ]]>                                                                                                                                                                                            |
| * MailSubject*          | String(250)            | 1           |                                                                                                                                                                                                                                                                                                                                                         |
| * MailTypeId*           | Integer(32-bit signed) | 1           |                                                                                                                                                                                                                                                                                                                                                         |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                                                                                                                                                                         |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                                                                                                                                                                         |
| * ResponseRequiredDate  | String                 | 0..1        | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                     |
| * RichMailText*         | Boolean                | 1           | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text                                                                                                                                                                                                                 |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1           | Value of '0' if no the correspondence contains no attachments                                                                                                                                                                                                                                                                                           |
| * ToUserId*             | String                 | 1..n        | UserId(s) of TO recipient. Can only be users within the same organization as the authorizing user.                                                                                                                                                                                                                                                      |
| * MailFormFields+       | Group                  | 0..1        | Mail Form field values.                                                                                                                                                                                                                                                                                                                                 |
| ** MailFormField+       | String                 | 0..n        | Mail Form field value. Allowed values per type: <ul style="list-style-type: none"><li>• boolean: true, false</li><li>• number: 123, 145.3, -45 etc</li><li>• date: yyyy-mm-dd e.g. 2014-02-23</li><li>• singleLineText: single line of text</li><li>• multiLineText: text separated by newline characters</li><li>• singleSelect: option text</li></ul> |
| ** identifier*          | Attribute              | 1           | Mail Form field identifier                                                                                                                                                                                                                                                                                                                              |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

#### Specifying Header for API Version 2

The Content-Type header of the entire payload must be "multipart/mixed" .

The Content-Type header of part that contains the mail XML must be "application/vnd.aconex.mail.v2+xml", and there must be an empty line between the header and the XML payload.

#### Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/

[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]
--myboundary

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<FromUserId>1879049257</FromUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>
<MailBody>
...
</MailBody>
<MailSubject>Test Create Mail 0015</MailSubject>
<MailTypeId>1879048200</MailTypeId>
<ReasonForIssue>4</ReasonForIssue>
<ResponseRequired>3</ResponseRequired>
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>
<RichMailText>true</RichMailText>
<TotalAttachmentCount>0</TotalAttachmentCount>
<ToUserId>1879049087</ToUserId>
<ToUserId>1879049309</ToUserId>
<!-- THIS IS NEW -->
<MailFormFields>
  <MailFormField identifier="completed_boolean">false</MailFormField>
  <MailFormField identifier="paymentdue_date">2013-12-20</MailFormField>
</MailFormFields>
<!-- THIS IS NEW -->
</Mail>
--myboundary--
```

#### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
  <SendMailResult sendStatus="MailSent">

    <NewMailId>1879053577</NewMailId>
  </SendMailResult>
```

#### Sample error response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>FIELD_LENGTH_EXCEEDED</ErrorCode>
  <ErrorDescription>Field colour_singleLineText exceeded the max. allowed length 20: sfsdf1;kf;dk;lkf;
ldssfsdfsdfs</ErrorDescription>
  <RequestID>if6e2vpa</RequestID>
  <SystemTime>2015-09-30T16:05:35.007+10:00</SystemTime>
</Error>
```

## Error Codes Specific to the Service

| Status Code                       | Description                                                                                                                                                    | HTTP Status Code |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Status Code                       | Description                                                                                                                                                    | HTTP Status Code |
| BAD_BASE64_DATA                   | The base64 data for the file <filename> was found to be invalid...                                                                                             | 400 Bad Request  |
| MISSING_FROM_USER                 | From user must be specified                                                                                                                                    | 400 Bad Request  |
| MULTIPLE_FROM_USERS_SPECIFIED     | Multiple from users specified                                                                                                                                  | 400 Bad Request  |
| INVALID_FROM_USER                 | The from user specified is invalid                                                                                                                             | 400 Bad Request  |
| NO_RECIPIENTS                     | No recipients to send mail to specified                                                                                                                        | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                            | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                                  | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : Cannot send to recipients that are not in the same organization                                          | 400 Bad Request  |
| INVALID_RECIPIENT_TYPE            | BCC recipient type cannot be specified                                                                                                                         | 400 Bad Request  |
| INVALID_FUTURE_DATE               | The date [InvalidDate] for the field [FieldName] must be in the future                                                                                         | 400 Bad Request  |
| INVALID_FIELD_VALUE               | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                               | 400 Bad Request  |
| UNEXPECTED_FIELD_VALUE            | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                                | 400 Bad Request  |
| MULTIPLE_ATTACHMENT_HEADERS_FOUND | Multiple headers received for multipart attachment. Only a single header is expected                                                                           | 400 Bad Request  |
| INVALID_ATTACHMENT_COUNT          | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments        | 400 Bad Request  |
| CANNOT_ATTACH_LOCAL_FILES         | Cannot attach local files for mail type which is a transmittal                                                                                                 | 400 Bad Request  |
| FIELD_LENGTH_EXCEEDED             | Provided mail form fields / restricted fields value is more than the maximum allowed length for it                                                             | 400 Bad Request  |
| FIELD_LENGTH_TOO_SHORT            | Provided mail form fields / restricted fields value is less than the minimum allowed length for it                                                             | 400 Bad Request  |
| DUPLICATED_FIELD                  | Provided mail form custom fields / restricted fields with same identifier                                                                                      | 400 Bad Request  |
| INVALID_FIELD_IDENTIFIER          | Provided mail form field / restricted field which is not associated with this mail type or provided restricted field that does not belong to this organisation | 400 Bad Request  |

# View Mail Thread

## View Mail Thread

This service returns a user-based view for a given mail thread.

### Notes:

- 1. Mail threads may spread across different organizations and/or could include mails which are confidential to certain users; these factors are considered in populating the mail thread view.
- 2. Thread Ids can be retrieved from the View Mail Metadata service response for a mail.

## URL structure

HTTP GET: https://{hostname}/api/projects/{projectid}/mail/{threadid}/thread

## Parameters

| Parameters | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
|------------|------------------|-------------|-------|

## Interface

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

https://au1.aconex.com/api/projects/1879048400/mail/1879052499/thread

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*s indicate the parent-child depth. Important to note that the response for this service is a hierarchical recursive structure based around the Mail element. Mail elements will be nested within each other under the Replies tag.

| Element    | Type (maxlength) | Cardinality | Notes                                                                                                                                                                                                                                                                                      |
|------------|------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thread     | Group            | 1           | Thread may contain have any number of mails                                                                                                                                                                                                                                                |
| ThreadId   | Attribute String |             | The ID of the thread                                                                                                                                                                                                                                                                       |
| * Mail     | Group            | 1..n        | This element is recursive once it is past the Thread Group. If the Mail Id is the same as the Thread Id, that means the Mail Id is the first email of that thread                                                                                                                          |
| * MailId   | Attribute String |             | The ID of the Mail                                                                                                                                                                                                                                                                         |
| ** InRefTo | Empty            | 1           |                                                                                                                                                                                                                                                                                            |
| ** MailId  | Attribute String |             | The ID of the mail that <b>this</b> mail is "In Ref To"                                                                                                                                                                                                                                    |
| ** Replies | Group            | 0..1        | Replies can have any number of Mail elements.                                                                                                                                                                                                                                              |
| *** Mail   | Group            | 0..n        | This represents a child of this mail, meaning it is either a response or forwarded mail based on its parent.                                                                                                                                                                               |
| *ReplyType | String(*)        | 1           | One of : <ul style="list-style-type: none"><li>• NEVER_RESPONDED (Represents a root mail or an individual mail - no forwards or replies exist for this mail)</li><li>• REPLY (represents a reply to the parent mail)</li><li>• FORWARD (represents a forward of the parent mail)</li></ul> |

### Sample response 1

(General response where user have access to root mail, forwarded mails and a reply.)

```

<Thread ThreadId = "2487">
  <Mail MailId = "2487">
    <InRefTo MailId = "2487"/>
    <Replies>
      <Mail MailId = "2488">
        <InRefTo MailId = "2487"/>
        <Replies>
          <Mail MailId = "2492">
            <InRefTo MailId = "2487"/>
            <ReplyType>REPLY</ReplyType>
          </Mail>
          <Mail MailId = "2490">
            <InRefTo MailId = "2487"/>
            <ReplyType>FORWARD</ReplyType>
          </Mail>
        </Replies>
        <ReplyType>FORWARD</ReplyType>
      </Mail>
      <Mail MailId = "2491">
        <InRefTo MailId = "2487"/>
        <ReplyType>FORWARD</ReplyType>
      </Mail>
    </Replies>
    <ReplyType>NEVER_RESPONDED</ReplyType>
  </Mail>
</Thread>

```

## Sample response 2

(View to the same thread from different organization which does not have access to the root mail.  
The two forwarded mails becomes top level mails.)

```

<Thread ThreadId = "2487">
  <Mail MailId = "2488">
    <InRefTo MailId = "2487"/>
    <Replies>
      <Mail MailId = "2492">
        <InRefTo MailId = "2487"/>
        <ReplyType>REPLY</ReplyType>
      </Mail>
      <Mail MailId = "2489">
        <InRefTo MailId = "2487"/>
        <Replies>
          <Mail MailId = "2490">
            <InRefTo MailId = "2487"/>
            <ReplyType>FORWARD</ReplyType>
          </Mail>
        </Replies>
        <ReplyType>FORWARD</ReplyType>
      </Mail>
    </Replies>
    <ReplyType>FORWARD</ReplyType>
  </Mail>
  <Mail MailId = "2491">
    <InRefTo MailId = "2487"/>
    <ReplyType>FORWARD</ReplyType>
  </Mail>
</Thread>

```

## Error Codes Specific to the Service

| Status Code      | Description                                                     | HTTP Status Code |
|------------------|-----------------------------------------------------------------|------------------|
| ENTITY_NOT_FOUND | The thread id specified does not correspond to an actual thread | 400              |

|                              |                                                                        |     |
|------------------------------|------------------------------------------------------------------------|-----|
| ENTITY_NOT_VISIBLE           | The thread trying to be viewed is not visible to the requesting user   | 401 |
| ENTITY_NOT_FOUND_FOR_PROJECT | The thread trying to be viewed does not exist on the specified project | 400 |

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The service will not return information of mail items that is marked as "Confidential", if the authorizing user is **not** a recipient (or the sender for sent mails) or does not have the secured asset to view all organization mails.

## Related APIs

- View Mail Metadata

## View Fax Log

### View Fax Log

This service retrieves the fax log for mail which were sent out as a fax.

**Note:** If there are no fax logs for a mail, search result size is 0 and no logs are returned.

### URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/mail/{mailid}/faxlog
```

## Parameters

| Parameters | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
|------------|------------------|-------------|-------|

## Interface

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/1879099264/faxlog
```

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element    | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
| ViewFaxLog | Group            | 1           |       |

|                  |                   |      |                                                                                                                                         |
|------------------|-------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TotalResults     | Attribute Integer | 1    | The number of fax logs found for the specified mail                                                                                     |
| * SearchResults  | Group             | 1    |                                                                                                                                         |
| ** FaxLog        | Group             | 0..n |                                                                                                                                         |
| *** Confirmation | DateTime          | 1    | Date when fax was delivered (in UTC format)                                                                                             |
| *** FaxNumber    | String            | 1    | Fax number specified when sending the mail                                                                                              |
| *** FaxSentTo    | String(123)       | 1    | The user name and organization name of the recipient, e.g. Tom Cruise - High Rise Architecture                                          |
| *** Queued       | DateTime          | 1    | Date when fax was scheduled to be sent (in UTC format)                                                                                  |
| *** Status       | String            | 1    | Current fax delivery status. One of: <ul style="list-style-type: none"> <li>• Pending</li> <li>• Delivered</li> <li>• Failed</li> </ul> |

### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ViewFaxLog TotalResults="1">
  <SearchResults>
    <FaxLog>
      <Confirmation/>
      <FaxNumber>+61 3 12345678</FaxNumber>
      <FaxSentTo>Tom Cruise-High Rise Architecture renamed</FaxSentTo>
      <Queued>2010-03-02T00:45:15.710Z</Queued>
      <Status>Pending</Status>
    </FaxLog>
  </SearchResults>
</ViewFaxLog>
```

### Error Codes Specific to the Service

| Status Code | Description | HTTP Status Code |
|-------------|-------------|------------------|
|-------------|-------------|------------------|

### Prerequisites

#### Required Permissions

The authorizing user (specified in the request header) must have access to the mail for which the fax log was requested.

#### Preferences/Module Setup

Not applicable.

### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user does not have access to the specified project or mail.

### Related APIs

- View Mail Metadata

## Mail Last Updated

### Mail Last Updated

Return mail items including associated mail last modified time-stamp for a project.

**Note:** If optional parameter 'everythingsince' (representing everything since a time stamp) is provided, the service returns all mail ids and associated last updated dates from the hour of the given time stamp in the request.

## URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/mail/integrity?queryparams
```

## Parameters

| Parameters      | Type(maxlength)                        | Notes                                                                                                                                                                                                               |
|-----------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| username        | String(61)                             | Mandatory.                                                                                                                                                                                                          |
| password        |                                        | Mandatory.                                                                                                                                                                                                          |
| everythingsince | String representation of UTC dateTime. | Optional. If not provided, full list of ids are returned.<br><b>Note:</b> Only supports hour granularity. Non zero minutes, seconds and milliseconds values in the request will cause an InvalidParameterException. |
| mail_box        | String                                 | Mandatory. One of: <ul style="list-style-type: none"><li>• INBOX</li><li>• SENTBOX</li><li>• DRAFTBOX</li></ul>                                                                                                     |

## Examples/Samples

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/integrity?everythingsince=2001-10-26T19:00:00.000Z&mail_box=INBOX
```

### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<IntegrityCheckResults>
  <Mail id="3707" lastModifiedDate="2007-10-11T03:53:10.313Z" />
</IntegrityCheckResults>
```

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element               | Type (maxlength) | Cardinality | Notes                                      |
|-----------------------|------------------|-------------|--------------------------------------------|
| Mail                  |                  | 0..n        |                                            |
| id                    | String           | 1           | Mail identifier assigned by the system     |
| lastModifiedDate      | xsd:dateTime     | 1           | Last update time for mail id in UTC format |
| IntegrityCheckResults |                  | 1           | XML Root Element                           |

## Error Codes Specific to the Service

| Status Code | Description | HTTP Status Code |
|-------------|-------------|------------------|
|-------------|-------------|------------------|

## Prerequisites

### Required Permissions

The authorizing user (specified in the request header) must have permission to search organization mail, To view all mail for an organization. If this is not the case, only users specific mail will be returned.

### Preferences/Module Setup

Not applicable.

Constraints

The request will fail if:

The specified Project or Organization is in any of the following states:

- De-activated
- Disconnected

The authorizing user does not have access to the specified project.

Related APIs

- Documents Last Updated

Delete Draft

Delete Draft

Service to delete the list of draft mails.

API Request Criteria

Possible Exception that can occur with this API

- **ENTITY\_NOT\_FOUND** - When the mail ID does not exist in the database.
- **ENTITY\_NOT\_VISIBLE** - When the user has no access to view the mail. (Example - when the mail is confidential or user has no permission to view Organization mail or user is from different Organization)
- **ACCESS\_FAILED\_FOR\_PROJECT** - When user has no permission to access Web Service API
- **INVALID\_MAIL\_IDS** - When an null value is passed in the list
- **INTERNAL\_ERROR** - When an illegal body is passed

When any of the above exceptions is raised on any of the given mail ID(s), none of the mail ID(s) would proceed to deletion process. It's like an all or none scenario.

The "NotDeleted" status in the response signifies that the mail is in a state of "sent" or "awaiting for approval".

**Note:** There is a limit set by the application on number of mailId that can be passed for delete per call. Current value is 100 mailIds/call.

Request Body

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Type(maxlength) | Cardinality | Notes                                    |
|-----------------|-------------|------------------------------------------|
| List<Long>      | 1           | Simple list of mail ID(s) to be deleted. |

Sample Request

```
POST /api/projects/1879048400/mail/draft/delete? HTTP/1.1
Host: localhost:8443
Accept: application/vnd.aconex.mail.v2+xml; charset=UTF-8;q=0.5
Content-Type: application/json
Authorization: Basic 1234XYZsample

[1879053108, 1879053126]
```

Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field Name        | Type(maxlength)  | Cardinality | Notes                                                                                                                     |
|-------------------|------------------|-------------|---------------------------------------------------------------------------------------------------------------------------|
| Field Name        | Type(maxlength)  | Cardinality | Notes                                                                                                                     |
| DeleteMailResults | Group            | 1           | Contains list of responses for individual mail IDs                                                                        |
| *DeleteMailResult | Group            | 0..n        | Contains deleted status of the mail                                                                                       |
| *deleteStatus     | Attribute String | 1           | Describes if deletion was successful or not <ul style="list-style-type: none"> <li>Deleted</li> <li>NotDeleted</li> </ul> |
| **MailId          | Long             | 1           | Contains mail Id of the result                                                                                            |

### Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<DeleteMailResults>
  <DeleteMailResult deleteStatus="NotDeleted">
    <MailId>1879053108</MailId>
  </DeleteMailResult>
  <DeleteMailResult deleteStatus="Deleted">
    <MailId>1879053126</MailId>
  </DeleteMailResult>
</DeleteMailResults>
```

## View Mail Saved Searches

### View Mail Saved Searches

This service returns information about the mail saved searches for a given project.

### URL structure

```
HTTPS GET: https://{hostname}/api/projects/{projectid}/mail/savedSearches
```

### Parameters

There are no query parameters required for this service.

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/savedSearches
```

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element                  | Type  | Cardinality | Notes                                                                                                                                          |
|--------------------------|-------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| SavedSearchGroups        | Group | 1           | Will contain only<br>OrgWideSavedSearchGroup,<br><br>ProjectWideSavedSearchGroup,<br><br>StandardSavedSearchGroup,<br><br>UserSavedSearchGroup |
| *OrgWideSavedSearchGroup | Group | 1           | Describes the set of saved searches that are shared org wide and available to the user                                                         |

|                                   |         |      |                                                                                                                                                   |
|-----------------------------------|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| *ProjectWideSavedSearchGroup      | Group   | 1    | Describes the set of saved searches that are shared project wide and available to the user                                                        |
| *StandardSavedSearchGroup         | Group   | 1    | Describes the default set of saved searches available on any project                                                                              |
| *UserSavedSearchGroup             | Group   | 1    | Describes the set of saved searches created by and available only to this user. (Not shared)                                                      |
| **Id                              | String  | 1    | An Id to represent the saved search group                                                                                                         |
| **Label                           | String  | 1    | A description for the saved search group                                                                                                          |
| **Type                            | Integer | 1    | Takes values:<br>1 - Saved searches created by a user<br>2 - Saved searches created by system                                                     |
| **SavedSearches                   | Group   | 1    | The set of saved searches that conforms to the parent saved search group                                                                          |
| ***SavedSearch                    | Group   | 0..n | A group representing data about a single saved search                                                                                             |
| ****CanEdit                       | boolean | 1    | Whether the saved search can be edited                                                                                                            |
| ****CanShare                      | boolean | 1    | Whether the saved search can be shared across the org                                                                                             |
| ****CanShareProjectWide           | boolean | 1    | Whether the saved search can be shared across the project                                                                                         |
| ****Id                            | Integer | 1    | A Unique identifier representing this saved search                                                                                                |
| ****Name                          | String  | 1    | Name of the saved search                                                                                                                          |
| ****OrganizationID                | Integer | 1    | Organization ID of the user that created this search                                                                                              |
| ****OwnedByUser                   | boolean | 1    | Boolean representing whether this user owns the search                                                                                            |
| ****ProjectID                     | Integer | 1    | Project Id this search was created for                                                                                                            |
| ****ProjectOwningOrg              | boolean | 1    | Whether the logged in user is part of the project owning org                                                                                      |
| ****Shared                        | boolean | 1    | Whether the search is shared org wide                                                                                                             |
| ****SharedProjectWide             | boolean | 1    | Whether the search is shared project wide                                                                                                         |
| ****UserID                        | Integer | 1    | Logged in User ID                                                                                                                                 |
| ****CorrespondenceSearchQuery     | Group   | 1    | A group that represents the parameters of this search                                                                                             |
| *****docno                        | String  | 0..1 | Mail number used in the search query                                                                                                              |
| *****corrtypeids                  | Group   | 0..1 | A group representing the mail types passed as parameter to the search                                                                             |
| *****corrtypeid                   | Integer | 0..n | A single Mail type ID                                                                                                                             |
| *****tostatusids                  | Group   | 0..1 | A group of Integers representing the statuses passed as parameter to the search                                                                   |
| *****tostatusid                   | Integer | 0..n | An ID representing mail status<br>Can take Values:<br>1 - Partial<br>2 - Outstanding<br>3 - N/A<br>5 - Closed Out<br>7 - Responded<br>8 - Overdue |
| *****mailBox                      | String  | 1    | The mailbox on which this search was performed, can take values:<br>ALLBOX<br>INBOX<br>SENTBOX<br>DRAFTBOX                                        |
| *****noninitiatornoactionrequired | boolean | 1    | Describes whether results should include No Action Required                                                                                       |
| *****sentdate1                    | String  | 0..1 | Date time for when the mail was sent in<br>UTC format yyyy-MM-ddT'hh:mm:ss.SSS'Z'                                                                 |
| *****sentdate2                    | String  | 0..1 | Present when the sentDateQualifier is BETWEEN                                                                                                     |

|                             |         |      |                                                                                                                                                                                                                                              |
|-----------------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *****sentDateQualifier      | String  | 0..1 | Qualifier for the sent date parameter, can be one of:<br>LAST7DAYS<br>LAST30DAYS<br>LAST90DAYS<br>NEXT7DAYS<br>NEXT30DAYS<br>NEXT90DAYS<br>YESTERDAY<br>TODAY<br>TOMORROW<br>BETWEEN<br>BEFORE<br>ON<br>AFTER                                |
| *****respondedate1          | String  | 0..1 | response due date in UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                 |
| *****respondedate2          | String  | 0..1 | Present when the respondedateQualifier is BETWEEN                                                                                                                                                                                            |
| *****respondedateQualifier  | String  | 0..1 | Qualifier for the sent date parameter, can be one of:<br>LAST7DAYS<br>LAST30DAYS<br>LAST90DAYS<br>NEXT7DAYS<br>NEXT30DAYS<br>NEXT90DAYS<br>YESTERDAY<br>TODAY<br>TOMORROW<br>BETWEEN<br>BEFORE<br>ON<br>AFTER                                |
| *****subject                | String  | 0..1 | subject field                                                                                                                                                                                                                                |
| *****corrdata               | String  | 0..1 | correspondence body field                                                                                                                                                                                                                    |
| *****org                    | String  | 0..1 | Will contain the fromtradingname for inbox and totradingname for sentbox                                                                                                                                                                     |
| *****searchOrganizationId   | Long    | 0..1 | if present, results will contain mails from corresponding organization for inbox, and mails to corresponding organization for sentbox                                                                                                        |
| *****comments               | String  | 0..1 | search parameter for comments                                                                                                                                                                                                                |
| *****attribute              | Group   | 0..1 | Attribute 1                                                                                                                                                                                                                                  |
| *****secondaryattribute     | Group   | 0..1 | Attribute 2                                                                                                                                                                                                                                  |
| *****thirdattribute         | Group   | 0..1 | Attribute 3                                                                                                                                                                                                                                  |
| *****fourthattribute        | Group   | 0..1 | Attribute 4                                                                                                                                                                                                                                  |
| *****attributeOption        | String  | 0..n | An individual option value passed as parameter for any of the above 4 groups                                                                                                                                                                 |
| *****showMyMailOnly         | boolean | 1    | Describes whether the results should only include user's incoming/outgoing mail only                                                                                                                                                         |
| *****showUnreadOnly         | boolean | 1    | Describes whether results should include only unread mail.                                                                                                                                                                                   |
| *****touserfullname         | String  | 0..1 | Describes the name of a recipient of mails to be included in the results.                                                                                                                                                                    |
| *****fromuserfullname       | String  | 0..1 | Describes the name of the sender of mails to be included in the results.                                                                                                                                                                     |
| *****reasonforissueids      | Group   | 1    | A group of reason for issue id parameters for the search.                                                                                                                                                                                    |
| *****reasonforissueid       | Long    | 0..n | An integer representing a reason for issue id                                                                                                                                                                                                |
| *****closedOutDateQualifier | String  | 0..1 | Qualifier for the closed out date parameter, can be one of:<br>LAST7DAYS<br>LAST30DAYS<br>LAST90DAYS<br>NEXT7DAYS<br>NEXT30DAYS<br>NEXT90DAYS<br>YESTERDAY<br>TODAY<br>TOMORROW<br>BETWEEN<br>BEFORE<br>ON<br>AFTER                          |
| *****closedOutDate1         | String  | 0..1 | Closed out date in UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                   |
| *****closedOutDate2         | String  | 0..1 | Present when closedOutDateQualifier is BETWEEN                                                                                                                                                                                               |
| *****excludeTransmittals    | Boolean | 1    | Specifies whether results should exclude mails of type 'Transmittal' when all the following conditions are true:<br>-no mail type is passed as parameter to search<br>-showTransmittalsOnly is false<br>-excludeAllTransmittalTypes is false |

|                                |         |      |                                                                                                                                                            |
|--------------------------------|---------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ****excludeAllTransmittalTypes | Boolean | 1    | Specifies whether results should exclude mails of all transmittal types when mail types are not specified as search param and showTransmittalsOnly is true |
| ****toFlags                    | Group   | 1    | A group of Integers describing the type of recipients passed as parameter to the search                                                                    |
| *****toFlag                    | Integer | 0..n | Can take values :<br>0 - user in to recipient<br>1 - user in cc recipient<br>2 - user in bcc recipients                                                    |
| *****showTransmittalsOnly      | boolean | 1    | Specifies whether the results should only contain transmittals, used when list of mail type param is empty                                                 |
| ****closedOutByOrg             | String  | 0..1 | Search param describing the org that closed out any mail                                                                                                   |
| ****closedOutByUser            | String  | 0..1 | Search param describing the user that closed out any mail                                                                                                  |
| ****confidential               | boolean | 1    | Specifies if results should include only confidential mail                                                                                                 |
| ****fromtradingname            | String  | 0..1 | Describes a name passed as a "From Organization" parameter when running a search from the inbox                                                            |
| ****totradingname              | String  | 0..1 | Describes a name passed as a "To Organization" parameter when running a search from the sentbox                                                            |
| ****customFieldFilters         | Group   | 1    | Describes the group of custom field filters that applies to the search                                                                                     |
| *****customFieldFilter         | Group   | 0..n |                                                                                                                                                            |
| *****fieldName                 | String  | 1    | The type of the custom field that this filter applies to. Will be the fully qualified name of the custom field.                                            |
| *****type                      | String  | 1    | Can be one of:<br>BooleanCustomField<br>TextCustomField<br>MultiSelectCustomField<br>DateCustomField                                                       |
| *****fieldValue                | String  | 1    | Present in case of BooleanCustomField and TextCustomField                                                                                                  |
| *****fieldValues               | Group   | 1    | Present in case of MultiSelectCustomField                                                                                                                  |
| *****values                    | String  | 0..n | An option selected for the multiselect custom field filter                                                                                                 |
| *****dateQualifier             | String  | 1    | Present in case of DateCustomField                                                                                                                         |
| *****date1                     | String  | 0..1 | Present in case of DateCustomField                                                                                                                         |
| *****date2                     | String  | 0..1 | Present in case of DateCustomField                                                                                                                         |
| *****dateRange                 | Group   | 1    | Present in case of DateCustomField.                                                                                                                        |
| *****startDate                 | String  | 1    | Present in case of DateCustomField.                                                                                                                        |
| *****endDate                   | String  | 1    | Present in case of DateCustomField.                                                                                                                        |
| ****inreftomailno              | String  | 0..1 | Reference number search parameter                                                                                                                          |
| ****rowPerMail                 | boolean | 1    | Describes whether the search results show have a row per mail(true), or row per recipient(false)                                                           |
| ****sortField                  | String  | 1    | The field identifier that the search is sorted on                                                                                                          |
| ****sortDir                    | String  | 1    | Sort direction, values:<br>NORMAL: Ascending order<br>REVERSE: Descending order                                                                            |
| ****pageSize                   | Integer | 1    | Number of results expected in a page of the search results                                                                                                 |
| ****pageNo                     | Integer | 1    | Page number of the search result                                                                                                                           |
| ****rawQueryText               | String  | 0..1 | Describes any raw query input by the user as part of the search                                                                                            |

## Sample response

```

<SavedSearchGroups>
  <OrgWideSavedSearchGroup>
  </OrgWideSavedSearchGroup>
  <ProjectWideSavedSearchGroup>
  </ProjectWideSavedSearchGroup>
  <StandardSavedSearchGroup>
  </StandardSavedSearchGroup>
  <UserSavedSearchGroup>
    <Id>mySavedSearchesGroup</Id>
    <Label>My Searches</Label>
    <SavedSearches>
      <SavedSearch>
        <CanEdit>true</CanEdit>

```

```
<CanShare>true</CanShare>
<CanShareProjectWide>true</CanShareProjectWide>
<Description>a saved search containing all params for inbox</Description>
<Id>1879048289</Id>
<Name>all params</Name>
<OrganizationID>1879048492</OrganizationID>
<OwnedByUser>true</OwnedByUser>
<ProjectID>1879048400</ProjectID>
<ProjectOwningOrg>true</ProjectOwningOrg>
<Shared>false</Shared>
<SharedProjectWide>false</SharedProjectWide>
<UserID>1879049107</UserID>
<CorrespondenceSearchQuery>
  <attribute>
    <attributeOption>Administration</attributeOption>
    <attributeOption>Events Centre</attributeOption>
  </attribute>
  <closedOutByOrg>aj</closedOutByOrg>
  <closedOutByUser>magriet</closedOutByUser>
  <closedOutDate1>2023-04-12T14:00:00.000Z</closedOutDate1>
  <closedOutDate2>2023-04-14T14:00:00.000Z</closedOutDate2>
  <closedOutDateQualifier>BETWEEN</closedOutDateQualifier>
  <comments>none</comments>
  <confidential>false</confidential>
  <noninitiatornoactionrequired>1</noninitiatornoactionrequired>
  <customFieldFilters>
    <customFieldFilter>
      <fieldName>Date2_date</fieldName>
      <type>DateCustomField</type>
      <date1>2023-04-13T14:00:00.000Z</date1>
      <dateQualifier>BEFORE</dateQualifier>
      <dateRangeModel>
        <endDate>2023-04-12T14:00:00.000Z</endDate>
        <startDate>1799-12-31T14:00:00.000Z</startDate>
      </dateRangeModel>
    </customFieldFilter>
    <customFieldFilter>
      <fieldName>_restricted_colour_singleLineText</fieldName>
      <type>TextCustomField</type>
      <fieldValue>red</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
      <fieldName>deadline_date</fieldName>
      <type>DateCustomField</type>
      <dateQualifier>LAST7DAYS</dateQualifier>
      <dateRangeModel>
        <endDate>2023-04-06T17:00:42.956Z</endDate>
        <startDate>2023-03-30T16:00:42.956Z</startDate>
      </dateRangeModel>
    </customFieldFilter>
    <customFieldFilter>
      <fieldName>pipelength_number_length_metre</fieldName>
      <type>TextCustomField</type>
      <fieldValue>10</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
      <fieldName>completed_boolean</fieldName>
      <type>BooleanCustomField</type>
      <fieldValue>0</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
      <fieldName>_restricted_completed_boolean</fieldName>
      <type>BooleanCustomField</type>
      <fieldValue>1</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
      <fieldName>Ss1_singleSelect</fieldName>
      <type>TextCustomField</type>
      <fieldValue>test_singleselect</fieldValue>
    </customFieldFilter>
  </customFieldFilters>
</CorrespondenceSearchQuery>
```

```

        <fieldName>City_singleSelect</fieldName>
        <type>TextCustomField</type>
        <fieldValue>Vienna</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
        <fieldName>feedback_multiLineText</fieldName>
        <type>TextCustomField</type>
        <fieldValue>great</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
        <fieldName>Country_singleSelect</fieldName>
        <type>TextCustomField</type>
        <fieldValue>Germany</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
        <fieldName>colour_singleLineText</fieldName>
        <type>TextCustomField</type>
        <fieldValue>blue</fieldValue>
    </customFieldFilter>
    <customFieldFilter>
        <fieldName>_restricted_deadline_date</fieldName>
        <type>DateCustomField</type>
        <date1>2023-04-12T14:00:00.000Z</date1>
        <dateQualifier>BEFORE</dateQualifier>
        <dateRangeModel>
            <endDate>2023-04-11T14:00:00.000Z</endDate>
            <startDate>1799-12-31T14:00:00.000Z</startDate>
        </dateRangeModel>
    </customFieldFilter>
    <customFieldFilter>
        <fieldName>Ms2_multiSelect</fieldName>
        <type>MultiSelectCustomField</type>
        <fieldValues>
            <values>Test3</values>
            <values>Test4</values>
        </fieldValues>
    </customFieldFilter>
</customFieldFilters>
<excludeAllTransmittalTypes>false</excludeAllTransmittalTypes>
<excludeTransmittals>false</excludeTransmittals>
<fourthattribute>
    <attributeOption>asdasdsda</attributeOption>
</fourthattribute>
<fromtradingname>aj hydraulics</fromtradingname>
<fromuserfullname>lewis</fromuserfullname>
<mailBox>INBOX</mailBox>
<docno>AJH- INM-000006</docno>
<corrtypeids>
    <corrtypeid>1</corrtypeid>
</corrtypeids>
<org>aj hydraulics</org>
<pageNo>1</pageNo>
<pageSize>100</pageSize>
<reasonforissueids>
    <reasonforissueid>1</reasonforissueid>
    <reasonforissueid>2</reasonforissueid>
</reasonforissueids>
<inreftomailno>ajh</inreftomailno>
<rowPerMail>false</rowPerMail>
<secondaryattribute>
    <attributeOption>WP1.01 - Piling</attributeOption>
    <attributeOption>WP1.02 - Sheet Piling & Retaining Walls</attributeOption>
</secondaryattribute>
<sentdate1>2023-04-04T14:00:00.000Z</sentdate1>
<sentdate2>2023-04-06T14:00:00.000Z</sentdate2>
<sentDateQualifier>BETWEEN</sentDateQualifier>
<showMyMailOnly>false</showMyMailOnly>
<showTransmittalsOnly>false</showTransmittalsOnly>
<showUnreadOnly>false</showUnreadOnly>
<sortDir>REVERSE</sortDir>
<sortField>sentdate</sortField>

```

```

        <tostatusids>
            <tostatusid>2</tostatusid>
        </tostatusids>
        <subject>test subject</subject>
        <thirdattribute>
            <attributeOption>Attribute3</attributeOption>
        </thirdattribute>
        <respondedateQualifier>LAST90DAYS</respondedateQualifier>
        <toFlags/>
        <touserfullname>tim</touserfullname>
    </CorrespondenceSearchQuery>
</SavedSearch>
</SavedSearches>
<Type>1</Type>
</UserSavedSearchGroup>
</SavedSearchGroups>

```

## Aconex Mail Services (version 1)

### View Mail Schema

#### View Mail Schema

This service returns the schema for the specified project's mail.

##### Notes:

1. The schema consists of two parts, EntityCreationFields and SearchSchemaFields.
2. EntityCreationFields describe the XML document required to be sent with the POST request when creating an item of mail using the *Create Mail* API service. Depending on project configuration, fields may be mandatory, optional or conditional optional, and may also have pre-defined values if the field is a MultiValueSchemaField.
3. SearchSchemaFields provide information about performing a mail search. Fields may be used to construct a Lucene search query, filter search results, and to specify which fields return in the search results by making use of the field identifier.

#### Entity creation fields

Entity creation fields describe required elements in the XML post content when making use of the *Create Mail* API service. Refer to that section for further information on how to make use of these fields and associated identifiers. Information about data type and possible field values are given if the field is a MultiValueSchemaField. No pre-defined values exist for a SingleValueSchemaField.

The conditional status stated by the attribute of the field governs if the field is MANDATORY or NOT\_MANDATORY within the POST content. A field may also be CONDITIONAL, in which case the field only becomes mandatory on the basis that the rule as stated by the MandatoryRules element is satisfied.

#### Search schema fields

The search schema fields describe identifiers to use for specific fields when performing searches. The mail searching service allows a Lucene query to filter results, and just as with "Configurable Fields" in Aconex, allows a caller to specify return fields in the search results. A fields identifier can be used in the Lucene query where the field has a 'Searchable' element, otherwise if the field has a 'SearchResultField' element, it can be requested in the search result response for each result.

#### URL structure

```
HTTPS GET: https://{hostname}/api/projects/{projectid}/mail/schema
```

#### Parameters

There are no query parameters required for this service.

#### Interface

##### Request Fields

Not Applicable. HTTP GET operations have no request body.

##### Sample request

<https://au1.aconex.com/api/projects/1879048400/mail/schema>

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*s indicate the parent-child depth.

| Element                      | Type (maxlength)      | Cardinality | Notes                                                                                                                                                                                                                                                                                      |
|------------------------------|-----------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MailSchema                   | Group                 | 1           |                                                                                                                                                                                                                                                                                            |
| projectName                  | Attribute String(100) | 1           |                                                                                                                                                                                                                                                                                            |
| projectId                    | Attribute String      | 1           |                                                                                                                                                                                                                                                                                            |
| * EntityCreationSchemaFields | Group                 | 1           |                                                                                                                                                                                                                                                                                            |
| ** MultiValueSchemaField     | Group                 | 0..n        | There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order                                                                                                                                                                         |
| *** Attributes               | Group                 | 1           |                                                                                                                                                                                                                                                                                            |
| **** EntityField             | No type               | 1           |                                                                                                                                                                                                                                                                                            |
| **** MandatoryStatus         | Attribute String      | 1           | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"><li>• MANDATORY</li><li>• NOT_MANDATORY</li><li>• CONDITIONAL</li></ul>                                                                                         |
| ***** MandatoryRules         | Group                 | 0...n       | The child elements of this element describe the rules that make the field mandatory                                                                                                                                                                                                        |
| ***** Rule                   | Group                 | 1...n       | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                |
| ***** Identifier             | String                | 1           | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                              |
| ***** SchemaValues           | Group                 | 0...n       |                                                                                                                                                                                                                                                                                            |
| ***** SchemaValue            | Group                 | 1...n       |                                                                                                                                                                                                                                                                                            |
| ***** Id                     | Integer String        | 1...n       | If the field the identifier of the rule refers to is a multi value schema field, this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                      |
| *** DataType                 | String                | 1           | One of : <ul style="list-style-type: none"><li>• STRING</li><li>• BOOLEAN</li><li>• RATIO</li><li>• INTEGER</li><li>• DOUBLE</li><li>• LONG</li><li>• DATE</li><li>• COMPLEX</li></ul>                                                                                                     |
| *** FieldName                | String(No Limit)      | 1           | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                           |
| *** Identifier               | String                | 1           | Identifier to be used when using the field to create a piece of project mail. One of: <ul style="list-style-type: none"><li>• MailTypeId</li><li>• ReasonForIssue</li><li>• ResponseRequired</li><li>• Attribute1</li><li>• Attribute2</li><li>• Attribute3</li><li>• Attribute4</li></ul> |
| *** SchemaValues             | Group                 | 1           |                                                                                                                                                                                                                                                                                            |

|                           |                        |       |                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| **** SchemaValue          | Group                  | 0..n  |                                                                                                                                                                                                                                                                                                                                      |
| ***** Id                  | Integer(Signed 32 bit) | 0..1  | A valid value for this field                                                                                                                                                                                                                                                                                                         |
| ***** Value               | String(60)             | 1     | A string representation for the value                                                                                                                                                                                                                                                                                                |
| ***** Link                | No type                | 0..1  | For EntityCreationSchemaFields/MultiValueSchemaField with MailTypeId Identifier only: a link for custom fields schema for given mail type (if there are any)                                                                                                                                                                         |
| ***** rel                 | Attribute              | 1     | Should be "customFieldSchema"                                                                                                                                                                                                                                                                                                        |
| ***** href                | Attribute              | 1     | URI for custom fields schema retrieval                                                                                                                                                                                                                                                                                               |
| ** SingleValueSchemaField | Group                  | 0..n  | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                                                                                                                                                                    |
| *** Attributes            | Group                  | 1     |                                                                                                                                                                                                                                                                                                                                      |
| **** EntityField          | No type                | 1     |                                                                                                                                                                                                                                                                                                                                      |
| **** MandatoryStatus      | Attribute String       | 1     | Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none"> <li>MANDATORY</li> <li>NOT_MANDATORY</li> <li>CONDITIONAL</li> </ul>                                                                                                                                     |
| ***** Rule                | Group                  | 1..n  | Defines a single rule on which this field becomes mandatory                                                                                                                                                                                                                                                                          |
| ***** Identifier          | String                 | 1     | The identifier of another entity creation field which if specified in the XML post content, makes this schema field mandatory                                                                                                                                                                                                        |
| ***** SchemaValues        | Group                  | 0...n |                                                                                                                                                                                                                                                                                                                                      |
| ***** SchemaValue         | Group                  | 1...n |                                                                                                                                                                                                                                                                                                                                      |
| *****Id                   | Integer String         | 1...n | If the field the identifier of the rule refers to is a multi value schema field,this Id will refer to one or more of the values which apply to this rule. Values outside of the Id's specified here do not make this field mandatory                                                                                                 |
| *** DataType              | String                 | 1     | One of : <ul style="list-style-type: none"> <li>STRING</li> <li>BOOLEAN</li> <li>RATIO</li> <li>INTEGER</li> <li>DOUBLE</li> <li>LONG</li> <li>DATE</li> <li>COMPLEX</li> </ul>                                                                                                                                                      |
| *** FieldName             | String(No Limit)       | 1     | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                     |
| *** Identifier            | String                 | 1     | Identifier to be used when using the field to create a piece of project mail. One of: <ul style="list-style-type: none"> <li>TotalAttachmentCount</li> <li>MailSubject</li> <li>MailBody</li> <li>ToUserId</li> <li>CcUserId</li> <li>BccUserId</li> <li>ResponseRequiredDate</li> <li>Confidential</li> <li>RichMailText</li> </ul> |
| * SearchSchemaFields      | Group                  | 1     |                                                                                                                                                                                                                                                                                                                                      |

|                           |                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** MultiValueSchemaField  | Group                  | 0..n | <p>There may be many repetitions of this element, along with SingleValueSchemaField, presented in no particular order</p> <p>N.B - for identifier 'tostatusid' , the status value ,that is configured for Responded and Closed-Out as below.</p> <p>Configured available values for Responded</p> <ul style="list-style-type: none"> <li>• Closed</li> <li>• Completed</li> <li>• Answered</li> </ul> <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> <li>• Confirmed</li> <li>• Accepted</li> <li>• Agreed</li> <li>• Closed</li> </ul> |
| *** Attributes            | Group                  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| **** SearchResultField    | No type                | 0..1 | The presence of this element indicates that the field may be returned in search results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| **** sortable             | Attribute Boolean      | 1    | Determines if the field may be used to sort the search results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| **** SearchableField      | No type                | 0..1 | The presence of this element indicates that the field may be used as a search parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| *** DataType              | String                 | 1    | <p>One of:</p> <ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         |
| *** FieldName             | String(No Limit)       | 0..1 | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *** Identifier            | String                 | 0..1 | Identifier to be used as values for parameters when using the API service to search for Mail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| *** SchemaValues          | Group                  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| **** SchemaValue          | Group                  | 0..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ***** Id                  | Integer(Signed 32 bit) | 0..1 | A valid value for this field                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ***** Value               | String(60)             | 1    | A string representation for the value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ** SingleValueSchemaField | Group                  | 0..n | There may be many repetitions of this element, along with MultiValueSchemaField, presented in no particular order                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| *** Attributes            | Group                  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| **** SearchResultField    | No type                | 0..1 | The presence of this element indicates that the field may be returned in search results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| **** sortable             | Attribute Boolean      | 1    | Determines if the field may be used to sort the search results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| **** SearchableField      | No type                | 0..1 | The presence of this element indicates that the field may be used as a search parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| *** DataType              | String                 | 1    | <p>One of:</p> <ul style="list-style-type: none"> <li>• STRING</li> <li>• BOOLEAN</li> <li>• RATIO</li> <li>• INTEGER</li> <li>• DOUBLE</li> <li>• LONG</li> <li>• DATE</li> <li>• COMPLEX</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         |
| *** FieldName             | String(No Limit)       | 1    | Field (label) name used in the application, for display purposes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *** Identifier            | String(60)             | 1    | Identifier to be used as values for parameters when using the API service to search for mail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<MailSchema projectName="Hotel VIP Resort" projectId="1879048400">
  <EntityCreationSchemaFields>
    <MultiValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="CONDITIONAL">
          <MandatoryRules>
            <Rule>
              <Identifier>MailTypeId</Identifier>
              <SchemaValues>
                <SchemaValue>
                  <Id>10</Id>
                </SchemaValue>
              </SchemaValues>
            </Rule>
          </MandatoryRules>
        </EntityField>
      </Attributes>
      <DataType>INTEGER</DataType>
      <FieldName>Response required</FieldName>
      <Identifier>ResponseRequired</Identifier>
      <SchemaValues>
        <SchemaValue>
          <Id>1</Id>
          <Value>Respond by</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>2</Id>
          <Value>Approve by</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>3</Id>
          <Value>Submit comments by</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>4</Id>
          <Value>Revise and re-submit by</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>5</Id>
          <Value>Submit quotation by</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>6</Id>
          <Value>Fabricate in accordance with drawings
            and deliver by</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>7</Id>
          <Value>Tender due by</Value>
        </SchemaValue>
      </SchemaValues>
    </MultiValueSchemaField>
    <SingleValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
      </Attributes>
      <DataType>INTEGER</DataType>
      <FieldName>Bcc</FieldName>
      <Identifier>BccUserId</Identifier>
    </SingleValueSchemaField>
    <SingleValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="NOT_MANDATORY"/>
      </Attributes>
      <DataType>STRING</DataType>
      <FieldName>Body</FieldName>
      <Identifier>MailBody</Identifier>
```

```

</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="MANDATORY"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Rich Text</FieldName>
  <Identifier>RichMailText</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY"/>
  </Attributes>
  <DataType>BOOLEAN</DataType>
  <FieldName>Confidential</FieldName>
  <Identifier>Confidential</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY"/>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Cc</FieldName>
  <Identifier>CcUserId</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="MANDATORY"/>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>To</FieldName>
  <Identifier>ToUserId</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="MANDATORY"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Subject</FieldName>
  <Identifier>MailSubject</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="CONDITIONAL">
      <MandatoryRules>
        <Rule>
          <Identifier>MailTypeId</Identifier>
          <SchemaValues>
            <SchemaValue>
              <Id>10</Id>
            </SchemaValue>
          </SchemaValues>
        </Rule>
        <Rule>
          <Identifier>ResponseRequired</Identifier>
        </Rule>
      </MandatoryRules>
    </EntityField>
  </Attributes>
  <DataType>DATE</DataType>
  <FieldName>Response Required Date</FieldName>
  <Identifier>ResponseRequiredDate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="MANDATORY"/>
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Total attachment count</FieldName>
  <Identifier>TotalAttachmentCount</Identifier>
</SingleValueSchemaField>

```

```

<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Attribute 3</FieldName>
  <Identifier>Attribute3</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Value>Hydraulics</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Commercial</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Structural</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Electrical</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Environmental</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Civil</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Health & Safety</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Landscape</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Vertical Transportation</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Interior Design</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Traffic</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Mechanical</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Administration</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Fire</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Architectural</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Attribute 2</FieldName>
  <Identifier>Attribute2</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Value>WP3.04 - Gutters</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP3.03 - Rain Screen Cladding</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>WP4.03 - Plaster & Screeding</Value>
    </SchemaValue>
  </SchemaValues>

```

```

</SchemaValue>
<SchemaValue>
  <Value>WP2.03 - Metal Decking</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.09 - Signage</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.08 - Painting & Decoration</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP2.04 - Underground Drainage</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.10 - Plumbing</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.08 - Alarm System</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP5.01 â€" Internal Electrical Installation</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.11 - Internal Fitout</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.05 - Glazed Roof</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.01 - Builders Clean</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.03 - Bulk Excavation (inc. Pile
    Mat & Probing)</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.10 - Artwork/Statues</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.02 - Dry Lining</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.06 - Podium Mesh Cladding</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP3.07 - Fire System</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.04 - Ground Works (inc. Grade
    Concrete Slab)</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP1.05 - Superstructure Concrete</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.04 - Suspended Ceilings</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP5.02 â€" Mains Electrical Supply</Value>
</SchemaValue>
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## Error Codes Specific to the Service

There are no error codes specific to this service.

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

## Related APIs

- List Projects for User
- List Mail
- View Mail Metadata
- Create Mail
- Reply Mail
- Forward Mail
- Register Mail
- View Custom Fields Schema

---

## List Mail Schema

### List Mail

The service executes a search of an organization's project mailbox.

#### Notes:

1. The use of this service is closely linked to information returned by the *View Mail Schema* API service, specifically the SearchSchemaFields returned by that service. The identifiers specified in the search schema fields can be used as values to the parameters of this request to filter search results as well as specify data to return in the response for each search result.

#### Specifying fields to return

The service allows you to request specific data for each mail search result by populating the return\_fields parameter with a comma separated list of identifiers (specified by the search schema fields in the mail schema). By default, the service returns only the mailId for **every mail item** in the selected mailbox. It is important to note that if an identifier is provided which is not specified as a search result field, an error will be returned and the search will not execute.

#### Sorting results

It is possible to sort the search results by a specific field. This is done by providing a single value to the sort\_field parameter when performing the request. Once again, all possible identifiers must be specified as sortable. The fields that can be sorted on must be a SearchResultField and have their sortable attribute set to true. It is also possible to specify the sort direction (ascending or descending).

#### Mailbox searching

The authorizing user **must select one** of the available mailboxes to search:

- inbox
- sentbox
- draftbox
- allbox

Search type

The service provides the ability to perform different types of searches.

**Limited** - Limit the number of search results to be returned.

**Full** - Request all available results for the search.

**Paged** - Request a specific page from a large set of results.

**Count** - Return only the number of results for the search.

Two parameters are involved in specifying the type of search to be performed (and if limited, the number of results to return). The search\_type parameter determines the type of search, and the search\_result\_size allows you to specify the maximum number of results for a limited search. Note for limited searches, the value specified for search\_result\_size must be at least (and a multiple of) 25.

By default, a number limited search is performed with the maximum number of results returned being set at 250.

Optional search parameters may be specified in the request URL in order to:

- retrieve a subset of the mail items, that match filter values
- specify additional mail metadata fields to be returned in the search results
- limit the number of items returned in the search results
- specify the field to sort the search results by, and in what order (ascending or descending).

URL structure

HTTP GET: https://{hostname}/api/projects/{projectid}/mail?{parameters}

Parameters

| Parameters   | Type (maxlength) | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mail_box     | String           | 1           | One of; <ul style="list-style-type: none"><li>• inbox</li><li>• sentbox</li><li>• draftbox</li><li>• allbox</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| search_query | String(no limit) | 0..1        | Lucene search query.<br><br>Field names available for searching: <ul style="list-style-type: none"><li>• attribute</li><li>• secondaryattribute</li><li>• thirdattribute</li><li>• fourthattribute</li><li>• closedoutdate</li><li>• corrdata</li><li>• corrtypeid</li><li>• docno</li><li>• fromtradingname</li><li>• fromuserfullname</li><li>• inreftomailno</li><li>• reasonforissueid</li><li>• respondedate</li><li>• sentdate</li><li>• subject</li><li>• tostatusid</li><li>• tottradingname</li><li>• touserfullname</li></ul> <b>Note:</b> Without a search_query, every document in the project is returned. Please refer to notes below for further information about Lucene. |

|                    |                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_fields      | String(no limit) | 0..1  | <p>A comma-separated list of mail fields to return in the search results.</p> <p>Field names available to be returned in the response are:</p> <ul style="list-style-type: none"> <li>• attribute</li> <li>• closedoutdetails</li> <li>• confidential</li> <li>• corrtypeid</li> <li>• docno</li> <li>• fromUserDetails</li> <li>• inreftomailno</li> <li>• mailRecipients</li> <li>• reasonforissueid</li> <li>• respondedate</li> <li>• secondaryattribute</li> <li>• sentdate</li> <li>• subject</li> <li>• tostatusid</li> <li>• totalAttachmentsSize</li> <li>• totalLocalAttachmentsSize</li> <li>• attachedDocumentCount</li> </ul>                                                                                                                                                                                                                                                                                                    |
| search_type        | String           | 0..1  | <p>One of;</p> <ul style="list-style-type: none"> <li>• NUMBER_LIMITED - return a maximum number of results. Please refer to search_result_size parameter which is mandatory for this search type.</li> <li>• FULL - return <b>all</b> matching results.</li> <li>• COUNT_ONLY - return <b>only</b> a count of items. As no other information can be retrieved, the following parameters are ignored for this search_type: <ul style="list-style-type: none"> <li>◦ return_fields</li> <li>◦ search_result_size</li> <li>◦ sort_field</li> <li>◦ sort_direction</li> </ul> </li> <li>• PAGED - return results in "pages" of variable size. Please refer to page_size and page_number parameters which are mandatory for this search type. The following parameters are ignored: search_result_size.</li> </ul> <p><b>Note:</b> Without this parameter specified, your search defaults to NUMBER_LIMITED with a search_result_size of 250.</p> |
| page_size          | Integer          | 0...1 | <p>This parameter is available <b>only</b> if search_type is explicitly set to PAGED. If specified, the value <b>must</b> be a number that is divisible by <b>25</b>. Without this parameter specified, this defaults to <b>25</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| page_number        | Integer          | 0..1  | <p>This parameter is available <b>only</b> if search_type is explicitly set to PAGED. If specified, the value <b>must</b> be between "1" and the value of the "TotalPages" attribute that is in the response, otherwise an error is returned. Without this parameter specified, this defaults to <b>1</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| search_result_size | Integer          | 0..1  | <p>This parameter is available <b>only</b> if search_type is explicitly set to NUMBER_LIMITED. The value <b>must</b> be a number that is divisible by <b>25</b>. Without this parameter specified, this defaults to <b>250</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| sort_field         | String           | 0..1  | <p>The name of the field to sort the search results by. Results can only be sorted by a single field, although it does <b>not</b> have to be one of the fields specified in the return_fields parameter.</p> <p>Field names available for sorting are:</p> <ul style="list-style-type: none"> <li>• confidential</li> <li>• corrtypeid</li> <li>• docno</li> <li>• inreftomailno</li> <li>• reasonforissueid</li> <li>• respondedate</li> <li>• sentdate</li> <li>• subject</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| sort_direction     | String           | 0..1  | <p>One of;</p> <ul style="list-style-type: none"> <li>• ASC, ascending order</li> <li>• DESC, descending order</li> </ul> <p><b>Note:</b> Without this parameter specified, sort defaults to ASC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Interface

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

https://au1.aconex.com/api/projects/1879048428/mail?mail\_box=inbox&return\_fields=closedoutdetails,tostatusid,mailRecipients,fromUserDetails,subject,attribute,docno,reasonforissueid,corrtypeid,sentdate,secondaryattribute&search\_type=FULL&search\_query=tostatusid:2&sort\_field=sentdate

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional and may not appear in the response.

The number of \*s indicate the parent-child depth.

| Element                          | Type (maxlength)    | Cardinality | Notes                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|---------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MailSearch                       | Group               | 1           |                                                                                                                                                                                                                                                                                                                                           |
| TotalResults                     | Attribute Integer   | 1           | The number of mail items that match the search_query.<br><br><b>Notes:</b><br><br>1. If a paged search is performed, this number represents all pages (including those not returned in the current page of results)<br>2. If a number limited search is performed, this number represents the number of results returned in the response. |
| TotalResultsOnPage               | Attribute Integer   | 0..1        | The number of results on the current page.<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                                         |
| TotalPages                       | Attribute Integer   | 0..1        | The total number of pages available for the specified page_size.<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                   |
| PageSize                         | Attribute Integer   | 0..1        | The page size for the search (will match specified page_size).<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                     |
| CurrentPage                      | Attribute Integer   | 0..1        | The current page of results (will match specified page_number).<br><br><b>Note:</b> Only applicable to a paged search.                                                                                                                                                                                                                    |
| * SearchResults                  | Group               | 1           |                                                                                                                                                                                                                                                                                                                                           |
| ** Mail                          | Group               | 0..n        |                                                                                                                                                                                                                                                                                                                                           |
| ** MailId                        | Attribute String    | 1           |                                                                                                                                                                                                                                                                                                                                           |
| *** Attribute1                   | Group               | 0..1        | Returned when return_fields parameter includes the value "attribute"                                                                                                                                                                                                                                                                      |
| **** AttributeTypeNames          | Group               | 0..1        |                                                                                                                                                                                                                                                                                                                                           |
| ***** AttributeTypeName          | String(200)         | 0..n        |                                                                                                                                                                                                                                                                                                                                           |
| **** AttributeType               | String              | 1           | Constant: PRIMARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                               |
| *** Attribute2                   | Group               | 0..1        | Returned when return_fields parameter includes the value "secondaryattribute"                                                                                                                                                                                                                                                             |
| **** AttributeTypeNames          | Group               | 0..1        |                                                                                                                                                                                                                                                                                                                                           |
| ***** AttributeTypeName          | String(200)         | 0..n        |                                                                                                                                                                                                                                                                                                                                           |
| **** AttributeType               | String              | 1           | Constant: SECONDARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                             |
| *** ClosedOutDetails             | Group               | 0..1        | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutByOrganizationName | String(60)          | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutByOrganizationId   | String              | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutByUserName         | String(33)          | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutById               | String              | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| **** ClosedOutDate               | Date(In UTC format) | 1           | Returned when return_fields parameter includes the value "closedoutdetails"                                                                                                                                                                                                                                                               |
| *** Confidential                 | Boolean             | 0..1        | Returned when return_fields parameter includes the value "confidential"                                                                                                                                                                                                                                                                   |
| *** CorrespondenceType           | String(200)         | 0..1        | Returned when return_fields parameter includes the value "corrtypeid"                                                                                                                                                                                                                                                                     |

|                        |             |      |                                                                                                                                                                                                                                                                                                     |
|------------------------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** ToUsers            | Group       | 0..1 | Returned when return_fields parameter includes the value "mailRecipients"                                                                                                                                                                                                                           |
| **** Recipient         | Group       | 1..n |                                                                                                                                                                                                                                                                                                     |
| ***** OrganizationId   | String      | 1    |                                                                                                                                                                                                                                                                                                     |
| ***** OrganizationName | String(60)  | 1    |                                                                                                                                                                                                                                                                                                     |
| ***** FirstName        | String      | 1    | User First Name                                                                                                                                                                                                                                                                                     |
| ***** LastName         | String      | 1    | User Last Name                                                                                                                                                                                                                                                                                      |
| ***** Status           | String      | 1    | Specifies the status of the mail for this distribution which will be one of: <ul style="list-style-type: none"> <li>• Outstanding</li> <li>• N/A</li> <li>• Responded</li> <li>• Overdue</li> <li>• Closed-Out</li> </ul>                                                                           |
| ***** DistributionType | String      | 1    | One of; <ul style="list-style-type: none"> <li>• TO</li> <li>• CC</li> <li>• BCC</li> </ul>                                                                                                                                                                                                         |
| ***** OrganizationName | String(60)  | 1    |                                                                                                                                                                                                                                                                                                     |
| ***** UserId           | String      | 1    |                                                                                                                                                                                                                                                                                                     |
| *** MailNo             |             | 0..1 | Returned when return_fields parameter includes the value "docno"                                                                                                                                                                                                                                    |
| *** FromUserDetails    | Group       | 0..1 | Returned when return_fields parameter includes the value "fromUserDetails"                                                                                                                                                                                                                          |
| **** OrganizationId    | String      | 1    |                                                                                                                                                                                                                                                                                                     |
| **** OrganizationName  | String(60)  | 1    |                                                                                                                                                                                                                                                                                                     |
| **** UserId            | String      | 1    |                                                                                                                                                                                                                                                                                                     |
| **** FirstName         | String      | 1    | User First Name                                                                                                                                                                                                                                                                                     |
| **** LastName          | String      | 1    | User Last Name                                                                                                                                                                                                                                                                                      |
| *** ReasonForIssue     | String(200) | 0..1 | Returned when return_fields parameter includes the value "reasonforissueid"                                                                                                                                                                                                                         |
| *** SentDate           | String      | 0..1 | Returned when return_fields parameter includes the value "sentdate"<br>UTC format                                                                                                                                                                                                                   |
| *** Status             | String(20)  | 0..1 | Returned when return_fields parameter includes the value "tostatusid"<br><br>Specifies the status of the mail which will be one of: <ul style="list-style-type: none"> <li>• Outstanding</li> <li>• N/A</li> <li>• Responded</li> <li>• Partial</li> <li>• Overdue</li> <li>• Closed-Out</li> </ul> |
| *** Subject            | String(250) | 0..1 | Returned when return_fields parameter includes the value "subject"                                                                                                                                                                                                                                  |
| *** ReferenceNumber    | String      | 0..1 | Returned when return_fields parameter includes the value "inreftomailno"                                                                                                                                                                                                                            |

Sample FULL/NUMBER\_LIMITED search type response

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<MailSearch TotalResults="1">
  <SearchResults>
    <Mail MailId="1879052617">
      <Attribute1>
        <AttributeTypeNames>
          <AttributeTypeName>External Works</AttributeTypeName>
          <AttributeTypeName>Car Park</AttributeTypeName>
          <AttributeTypeName>Office Tower</AttributeTypeName>
        </AttributeTypeNames>
        <AttributeType>PRIMARY_ATTRIBUTE</AttributeType>
      </Attribute1>
      <Attribute2>
        <AttributeTypeNames>
          <AttributeTypeName>IEQ</AttributeTypeName>
        </AttributeTypeNames>
        <AttributeType>SECONDARY_ATTRIBUTE</AttributeType>
      </Attribute2>
      <CorrespondenceType>Request For Information</CorrespondenceType>
      <ToUsers>
        <Recipient>
          <OrganizationId>1879048492</OrganizationId>
          <OrganizationName>Majestic Builders</OrganizationName>
          <Status>Overdue</Status>
          <DistributionType>T0</DistributionType>
          <FirstName>Patrick</FirstName>
          <Name>Mr Patrick O'Leary</Name>
          <UserId>1879049107</UserId>
          <LastName>O'Leary</LastName>
        </Recipient>
        <Recipient>
          <OrganizationId>1879048492</OrganizationId>
          <OrganizationName>Majestic Builders</OrganizationName>
          <Status>Overdue</Status>
          <DistributionType>T0</DistributionType>
          <FirstName>Tim</FirstName>
          <Name>Mr Tim Yeung</Name>
          <UserId>1879049123</UserId>
          <LastName>Yeung</LastName>
        </Recipient>
      </ToUsers>
      <MailNo>VIP-RFI-000001</MailNo>
      <ReferenceNumber>VIP-RFI-000001</ReferenceNumber>
      <FromUserDetails>
        <OrganizationId>1879048491</OrganizationId>
        <OrganizationName>VIP Group</OrganizationName>
        <FirstName>Peter</FirstName>
        <Name>Mr Peter Chitwood</Name>
        <UserId>1879049119</UserId>
        <LastName>Chitwood</LastName>
      </FromUserDetails>
      <ReasonForIssue></ReasonForIssue>
      <SentDate>2007-11-22T23:27:11.373Z</SentDate>
      <Status>Overdue</Status>
      <Subject>IEQ-14 - Formaldehyde Minimisation of wood products </Subject>
    </Mail>
  </SearchResults>
</MailSearch>

```

Sample PAGED search type response

```
<?xml version="1.0"?>
<MailSearch TotalResultsOnPage="5" TotalResults="55" TotalPages="2" PageSize="50" CurrentPage="2">
  <SearchResults>
    <Mail MailId="106">
      <MailNo>CAN-000002</MailNo>
    </Mail>
    <Mail MailId="29">
      <MailNo>CAN-000001</MailNo>
    </Mail>
    <Mail MailId="1053">
      <MailNo>CA-000001</MailNo>
    </Mail>
    <Mail MailId="1412">
      <MailNo>59_28_TD</MailNo>
    </Mail>
    <Mail MailId="1408">
      <MailNo>58_7_TD</MailNo>
    </Mail>
  </SearchResults>
</MailSearch>
```

#### Sample COUNT\_ONLY search type response

```
<?xml version="1.0"?>
<MailSearch TotalResults="55"/>
```

#### Error Codes Specific to the Service

| StatusCode               | Description                                                                 | HTTP Status Code |
|--------------------------|-----------------------------------------------------------------------------|------------------|
| INVALID_PARAMETER_VALUE  | If a value for a provided parameter is not valid in anyway or unexpected    | 400              |
| INVALID_RESULT_SET_FIELD | If a field requested as part of the results is not a valid result set field | 400              |
| INVALID_SORT_FIELD       | If the field specified to sort on is not a valid sortable field             | 400              |
| MALFORMED_QUERY          | If the query provided is not a correctly structured Lucene query            | 400              |

#### Prerequisites

##### Required Permissions

There are no required permissions to use this service.

##### Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of active fields, prior to constructing a search request.

#### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user does not have access to the specified project.

The service cannot search multiple mailboxes at the same time.

The service will **not** find mail items that are both marked as "Confidential" and where the authorizing user is **not** a recipient (or the sender for sent mails) or does not have the secured asset to view all organization mail.

#### Further Reading

Introductory notes about Lucene queries may be found here:

[http://lucene.apache.org/core/3\\_5\\_0/queryparsersyntax.html](http://lucene.apache.org/core/3_5_0/queryparsersyntax.html)

Related APIs

- List Mail Schema
- View Mail Metadata
- Mark Mail As Read
- Download Mail Attachment

View Mail Metadata

View Mail Metadata

This service returns detailed metadata for a given mail item in the specified project. The API response contains information not available as part of the search results provided by the *List Mail* API service, e.g. mail body, and mail attachments.

Notes:

1. Data in the *View Mail Schema* API response does **not** relate to this service, nor does it provide linkages between fields. While some fields described in the schema do exist in both API services, there are additional fields in the API response that are not found in the schema.
2. Making a request for detailed metadata for a given mail item using this service does **not** mark the mail item as read in Aconex. Should you need to mark mail items as read, please refer to the *Mark Mail As Read* API service for further information.

URL structure

HTTP GET: https://{hostname}/api/projects/{projectid}/mail/{mailid}

Parameters

| Parameters | Type(maxlength) | Cardinality | Notes |
|------------|-----------------|-------------|-------|
|------------|-----------------|-------------|-------|

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

https://au1.aconex.com/api/projects/1879048400/mail/1879053540

Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional and may not appear in the response.

The number of \*s indicate the parent-child depth.

| Element                         | Type (maxlength) | Cardinality | Notes                                                                                                                                                     |
|---------------------------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                            | Group            | 1           |                                                                                                                                                           |
| MailId                          | Attribute String | 1           | This is the mail id of the mail.                                                                                                                          |
| * ApprovalStatus                | String           | 1           | One of : <ul style="list-style-type: none"><li>• Don't Process</li><li>• Error</li><li>• Waiting Approval</li><li>• Approved</li><li>• Rejected</li></ul> |
| * Attachments                   | Group            | 1           | This section lists attachments on this mail.                                                                                                              |
| ** RegisteredDocumentAttachment | Group            | 0..n        | Registered documents may <b>only</b> be attached to mail items of "Transmittal" or "Tender Transmittal" mail type (CorrespondenceType response field).    |

|                        |                      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|----------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ** attachmentId        | Attribute String     | 1    | <p>This is a reference to a registered document.</p> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. attachmentId is <b>not</b> the same value as the documentId. Please refer to the <i>Download Mail Attachment</i> API service for further information.</li> <li>2. When the transmittal attachment is confidential AND the user is not in the transmittal recipient list or documents access list, attachmentId is omitted.</li> </ol> |
| *** Confidential       | boolean              | 1    | <p>Confidentiality status of the attached registered document, as determined from the sender's point of view.</p> <p><b>Note:</b> This status value is retained if the correspondence is forwarded, with attachments intact; i.e the status always reflects the current confidentiality of the <b>original</b> sender's document, even after the correspondence has been sent.</p>                                                                        |
| *** DocumentId         | String               | 0..1 | <p>The id of the registered document attached to this sent mail.</p> <p><b>Note:</b> This document belongs to the sender of the mail and is only available to sender organization users; i.e. is not provided for received mail of which RegisteredAs is the relevant field.</p>                                                                                                                                                                          |
| *** DocumentNo         | String(30)           | 1    | The document number of the registered document attached to this mail.                                                                                                                                                                                                                                                                                                                                                                                     |
| *** FileName           | String(255)          | 1    | The filename of the registered document attached to this mail.                                                                                                                                                                                                                                                                                                                                                                                            |
| *** FileSize           | Long (64-bit signed) | 1    | The filesize (measured in bytes) of the registered document attached to this mail.                                                                                                                                                                                                                                                                                                                                                                        |
| *** Revision           | String(15)           | 1    | The revision value associated with the registered document.                                                                                                                                                                                                                                                                                                                                                                                               |
| *** RevisionDate       | String               | 1    | UTC Timezone in the format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                                                                                                                                                   |
| *** RegisteredAs       | String               | 0..1 | <p>The id of the attached registered document in the recipient organization's document register.</p> <p><b>Note:</b> This is available only if the document has already been registered from the mail. Also only available to recipient organizations; i.e. is not provided for sent mails of which documentId is the relevant field.</p>                                                                                                                 |
| *** Status             | String(20)           | 1    | The status value associated with the registered document.                                                                                                                                                                                                                                                                                                                                                                                                 |
| *** Title              | String(120)          | 1    | The title value associated with the registered document.                                                                                                                                                                                                                                                                                                                                                                                                  |
| ** LocalFileAttachment | Group                | 0..n | Local files may <b>only</b> be attached to mail items that are <b>not</b> either "Transmittal" or "Tender Transmittal" mail types (CorrespondenceType response field).                                                                                                                                                                                                                                                                                    |
| ** attachmentId        | Attribute String     | 1    | This is a reference to the attached file. Please refer to the <i>Download Mail Attachment</i> API service for further information.                                                                                                                                                                                                                                                                                                                        |
| *** FileSize           | Long (64-bit signed) | 1    | The filesize of the attachment (measured in bytes).                                                                                                                                                                                                                                                                                                                                                                                                       |
| *** FileName           | String(255)          | 1    | The filename of the attachment.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ** MailAttachment      | Group                | 0..n | Other mails may be attached to mails of <b>any</b> mail type.                                                                                                                                                                                                                                                                                                                                                                                             |
| *** MailId             | String               | 1    | <p>The id of the mail attached to this mail.</p> <p><b>Note:</b> This id may be specified to the <i>View Mail Metadata</i> API service to obtain more information for the attached mail.</p>                                                                                                                                                                                                                                                              |
| *** FromName           | String(61)           | 1    | FirstName + " " + LastName                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *** FromOrg            | String(60)           | 1    | The organization's Trading Name.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| *** MailNo             | String(26)           | 1    | The mail number of the attached mail.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| *** SentDate           | String               | 1    | UTC Timezone in the format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                                                                                                                                                                   |
| *** Subject            | String(250)          | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| * Attribute1           | Group                | 0..1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ** AttributeTypeNames  | Group                | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| *** AttributeTypeName  | String(200)          | 0..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ** AttributeType       | String               | 1    | Constant: PRIMARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                                                                                                                                               |
| * Attribute2           | Group                | 0..1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ** AttributeTypeNames  | Group                | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| *** AttributeTypeName  | String(200)          | 0..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ** AttributeType       | String               | 1    | Constant: SECONDARY_ATTRIBUTE                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                       |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Attribute3          | Group       | 0..1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** AttributeTypeNames | Group       | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| *** AttributeTypeName | String(200) | 0..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** AttributeType      | String      | 1    | Constant: THIRD_ATTRIBUTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| * Attribute4          | Group       | 0..1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** AttributeTypeNames | Group       | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| *** AttributeTypeName | String(200) | 0..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** AttributeType      | String      | 1    | Constant: FOURTH_ATTRIBUTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| * MailData            | String      | 1    | The body of the mail.<br><br><b>Note:</b> Includes formatting metadata such as font and text alignment. The mail body is capped at a maximum size of 2GB.                                                                                                                                                                                                                                                                                                                                              |
| * ConfidentialFlag    | Short       | 1    | 0 = Not Confidential<br>1 = Confidential                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| * ProjectDetails      | Group       | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** address1           | String(80)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** address2           | String(80)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** address3           | String(80)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** city               | String(50)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** country            | String(100) | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** logoPath           | String(510) | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** name               | String(200) | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** postCode           | String(20)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** state              | String(50)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| * CorrespondenceType  | String(60)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| * ToUsers             | Group       | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ** Recipient          | Group       | 1..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| *** OrganizationId    | String      | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| *** OrganizationName  | String(60)  | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| *** Status            | String      | 1    | Specifies the status of the mail for this distribution which will be one of:<br><br><ul style="list-style-type: none"> <li>OUTSTANDING</li> <li>N/A</li> <li>RESPONDED</li> <li>CLOSED-OUT</li> </ul> Configured available values for Responded <ul style="list-style-type: none"> <li>Closed</li> <li>Completed</li> <li>Answered</li> </ul> Configured available values for Closed-Out <ul style="list-style-type: none"> <li>Confirmed</li> <li>Accepted</li> <li>Agreed</li> <li>Closed</li> </ul> |
| *** DistributionType  | String      | 1    | One of; <ul style="list-style-type: none"> <li>TO</li> <li>CC</li> <li>BCC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                             |                  |       |                                                                                                                                                                               |
|-----------------------------|------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** Name                    | String(87)       | 1     | The name of the recipient (including title).                                                                                                                                  |
| *** UserId                  | String           | 1     |                                                                                                                                                                               |
| * MailNo                    | String(26)       | 1     |                                                                                                                                                                               |
| * Fax                       | String(42)       | 1     |                                                                                                                                                                               |
| * Footer                    | String(700)      | 1     |                                                                                                                                                                               |
| * FromUserDetails           | Group            | 1     |                                                                                                                                                                               |
| ** OrganizationId           | String           | 1     |                                                                                                                                                                               |
| ** LogoPath                 | Group            | 0...1 | This element will contain an attribute providing the full HTTP path to the logo of the said organization, provided one had been set at the time of creation for this mail.    |
| ** href                     | Attribute String | 0...1 | If the LogoPath element is present, this attribute will exist and its value will be a full HTTP path to the sender organization's logo at the time of creation for this mail. |
| ** OrganizationName         | String(60)       | 1     |                                                                                                                                                                               |
| ** Name                     | String(87)       | 1     | The name of the sender (including title).                                                                                                                                     |
| ** UserId                   | String           | 1     |                                                                                                                                                                               |
| * InRefToMailId             | String           | 1     | The id of the "In Ref To" item that this mail refers to.                                                                                                                      |
| * Notes                     | Group            | 1     |                                                                                                                                                                               |
| ** Note                     | Group            | 0..n  |                                                                                                                                                                               |
| *** FromUserId              | String           | 1     |                                                                                                                                                                               |
| *** NoteContents            | String           | 1     | Up to 2GB per note.                                                                                                                                                           |
| *** TimeCreated             | String           | 1     | UTC timezone yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                     |
| * ProjectId                 | String           | 1     |                                                                                                                                                                               |
| * ReasonForIssue            | String(200)      | 1     | May be an empty element.                                                                                                                                                      |
| * ResponseRequired          | Group            | 0..1  |                                                                                                                                                                               |
| ** ResponseRequiredDate     | DateTime         | 1     | UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                       |
| ** ResponseRequiredMessage  | String           | 1     | May be an empty element.                                                                                                                                                      |
| * RichMailText              | Boolean          | 1     |                                                                                                                                                                               |
| * MailRegistrationDetails   | Group            | 1     | Data contained in this element's children allow you to determine if the mail has been registered into the organization's Inbox (or not).                                      |
| ** IsRegistered             | Boolean          | 1     | A true/false value where true means the mail is a registered mail.                                                                                                            |
| ** RegisteredByUserFullName | String           | 0...1 | The full name (including title) of the person who registered the mail.<br><b>Note:</b> This will only appear if the IsRegistered value is true.                               |
| ** RegisteredByUserId       | String           | 0...1 | The user id of the person who registered the mail.<br><b>Note:</b> This will only appear if the IsRegistered value is true.                                                   |
| * SentDate                  | String           | 1     | UTC timezone yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                     |

|                    |                  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Status           | String(20)       | 1    | <p>Specifies the status of the (overall) mail which will be one of:</p> <ul style="list-style-type: none"> <li>• OUTSTANDING</li> <li>• N/A</li> <li>• RESPONDED</li> <li>• PARTIAL</li> <li>• CLOSED-OUT</li> </ul> <p>Configured available values for Responded</p> <ul style="list-style-type: none"> <li>• Closed</li> <li>• Completed</li> <li>• Answered</li> </ul> <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> <li>• Confirmed</li> <li>• Accepted</li> <li>• Agreed</li> <li>• Closed</li> </ul> |
| * Subject          | String(250)      | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| * ThreadId         | String           | 1    | The id of the thread that this mail belongs to.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| * FaxLog           | Boolean          | 1    | Indicates if the mail is associated to a FaxLog.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| * CustomFields     | Group            | 0..1 | List of custom field values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ** CustomField     | Group            | 1..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| *** DataType       | String           | 1    | <p>The custom field data type which will be one of:</p> <ul style="list-style-type: none"> <li>• BOOLEAN</li> <li>• SINGLE_LINE_TEXT</li> <li>• MULTI_LINE_TEXT</li> <li>• DATE</li> <li>• NUMBER</li> <li>• SINGLE_SELECT</li> </ul>                                                                                                                                                                                                                                                                                                             |
| *** Identifier     | String           | 1    | Custom field identifier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| *** Label          | String           | 1    | Localized custom field label.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| *** Value          | String           | 1    | Custom field value (may be an empty element).<br>Date value is in ISO 8601 format i.e. yyyy-MM-dd.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *** Specifications | Group            | 0..1 | Contextual information for the custom field value e.g. unit name/quantity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| **** Specification | Group            | 1..n |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| **** name          | Attribute String | 1    | <p>Specification name (refer to Unit Table):</p> <ul style="list-style-type: none"> <li>• unitQuantity (e.g. length)</li> <li>• unitName (e.g. metre)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  |

**Sample response** (Full mail (transmittal) response that has been registered with two registered document attachments, and two mail attachments.)

```
<?xml version="1.0" encoding="UTF-8"?>
<Mail MailId="1879053551">
  <ActionNote/>
  <ApprovalStatus>Approved</ApprovalStatus>
  <Attachments>
    <RegisteredDocumentAttachment attachmentId="1879078085">
      <Confidential>>false</Confidential>
      <DocumentId>1879099031</DocumentId>
      <DocumentNo>A-1008</DocumentNo>
      <FileName>A-1008-B.pdf</FileName>
      <FileSize>199727</FileSize>
      <Revision>D</Revision>
      <RevisionDate>2005-07-11T14:00:00.000Z</RevisionDate>
      <Status>For Approval</Status>
      <Title>GENERAL ARRANGEMENT PLAN, HORIZON BAR SHT
        1</Title>
    </RegisteredDocumentAttachment>
    <RegisteredDocumentAttachment attachmentId="1879078086">
      <Confidential>true</Confidential>
      <DocumentId>1879099032</DocumentId>
      <DocumentNo>A-1009</DocumentNo>
      <FileName>A-1009-B.pdf</FileName>
```

```
<FileSize>233974</FileSize>
<Revision>D</Revision>
<RevisionDate>2005-07-11T14:00:00.000Z</RevisionDate>
<Status>For Approval</Status>
<Title>GENERAL ARRANGEMENT PLAN, HORIZON BAR SHT 2</Title>
</RegisteredDocumentAttachment>
<RegisteredDocumentAttachment>
  <Confidential>true</Confidential>
  <DocumentId>1879199132</DocumentId>
  <DocumentNo>A-1119</DocumentNo>
  <FileName>A-1119-B.pdf</FileName>
  <FileSize>233974</FileSize>
  <Revision>B</Revision>
  <RevisionDate>2006-07-11T14:00:00.000Z</RevisionDate>
  <Status>DRAFT</Status>
  <Title>FOYER FLAN PLAN, HORIZON BAR SHT 2</Title>
</RegisteredDocumentAttachment>
  <MailAttachment>
    <MailId>1879053551</MailId>
    <FromName>Mr Patrick O'Leary</FromName>
    <FromOrg>Majestic Builders</FromOrg>
    <MailNo>TRANSMIT-000184</MailNo>
    <SentDate>2009-11-17T02:50:49.493Z</SentDate>
    <Subject>Attachments for comments required</Subject>
  </MailAttachment>
  <MailAttachment>
    <MailId>1879053551</MailId>
    <FromName>Mr Patrick O'Leary</FromName>
    <FromOrg>Majestic Builders</FromOrg>
    <MailNo>TRANSMIT-000184</MailNo>
    <SentDate>2009-11-17T02:50:49.493Z</SentDate>
    <Subject>Attachments for comments required</Subject>
  </MailAttachment>
</Attachments>
<Attribute1>
  <AttributeTypeNames>
    <AttributeTypeName>Spa Building</AttributeTypeName>
    <AttributeTypeName>South Tower Hotel</AttributeTypeName>
    <AttributeTypeName>Retail Building</AttributeTypeName>
  </AttributeTypeNames>
  <AttributeType>PRIMARY_ATTRIBUTE</AttributeType>
</Attribute1>
<Attribute2>
  <AttributeTypeNames>
    <AttributeTypeName>WP2.03 - Metal Decking</AttributeTypeName>
    <AttributeTypeName>WP1.04 - Ground Works (inc. Grade
      Concrete Slab)</AttributeTypeName>
    <AttributeTypeName>WP3.02 - Planar Glazing</AttributeTypeName>
  </AttributeTypeNames>
  <AttributeType>SECONDARY_ATTRIBUTE</AttributeType>
</Attribute2>
<Attribute3>
  <AttributeTypeNames/>
  <AttributeType>THIRD_ATTRIBUTE</AttributeType>
</Attribute3>
<Attribute4>
  <AttributeTypeNames/>
  <AttributeType>FOURTH_ATTRIBUTE</AttributeType>
</Attribute4>
<MailData>Some attachments to comment on. Bring some.</MailData>
<ConfidentialFlag>0</ConfidentialFlag>
<ProjectDetails>
  <address1>696 Bourke Street</address1>
  <address2>Near GPO</address2>
  <address3>Opp Southern Cross Station</address3>
  <city>Melbourne</city>
  <country>Bahrain</country>
  <logoPath>/html/logos/aconex-stored/project/1879048409/2012-08-01-10-31-01-1738638.gif</logoPath>
  <name>Em City Mine (EMC)</name>
  <postCode>3000</postCode>
  <state>VIC</state>
</ProjectDetails>
```

```
<CorrespondenceType>Transmittal</CorrespondenceType>
<ToUsers>
  <Recipient>
    <OrganizationId>1879048437</OrganizationId>
    <OrganizationName>Super Safe Scaffolding</OrganizationName>
    <Status>OUTSTANDING</Status>
    <DistributionType>CC</DistributionType>
    <Name>Mr Charlie Putrino</Name>
    <UserId>1879048921</UserId>
  </Recipient>
  <Recipient>
    <OrganizationId>1879048435</OrganizationId>
    <OrganizationName>JR Costa Joinery</OrganizationName>
    <Status>RESPONDED</Status>
    <DistributionType>BCC</DistributionType>
    <Name>Mrs Shveta Gupta</Name>
    <UserId>1879048689</UserId>
  </Recipient>
  <Recipient>
    <OrganizationId>1879048467</OrganizationId>
    <OrganizationName>Excite Electrical</OrganizationName>
    <Status>OUTSTANDING</Status>
    <DistributionType>TO</DistributionType>
    <Name>Mr Vince Costanza</Name>
    <UserId>1879049011</UserId>
  </Recipient>
</ToUsers>
<MailNo>TRANSMIT-000184</MailNo>
<Fax>6192222111</Fax>
<Footer/>
<FromUserDetails>
  <OrganizationId>1879048492</OrganizationId>
  <LogoPath href="http://origin-au1.aconex.com/html/logos/aconex-stored/organization/0/2010-03-02-15-51-45-952.gif" />
  <OrganizationName>Majestic Builders</OrganizationName>
  <Name>Mr Patrick O'Leary</Name>
  <UserId>1879049107</UserId>
</FromUserDetails>
<Notes/>
<ProjectId>1879048400</ProjectId>
<ReasonForIssue>Issued for Approval</ReasonForIssue>
<ResponseRequired>
  <ResponseRequiredDate>2009-11-17T13:00:00.000Z</ResponseRequiredDate>
  <ResponseRequiredMessage>Please submit your comments by</ResponseRequiredMessage>
</ResponseRequired>
<MailRegistrationDetails>
  <IsRegistered>true</IsRegistered>
  <RegisteredByUserFullName>Mr Tom Jones</RegisteredByUserFullName>
  <RegisteredByUserId>23</RegisteredByUserId>
</MailRegistrationDetails>
<RichMailText>false</RichMailText>
<SentDate>2009-11-17T02:50:49.493Z</SentDate>
<Status>Responded</Status>
<Subject>Attachments for comments required</Subject>
<ThreadId>1879053469</ThreadId>
<FaxLog>false</FaxLog>
<CustomFields>
  <CustomField>
    <DataType>DATE</DataType>
    <Identifier>deadline_date</Identifier>
    <Label>Deadline</Label>
    <Value>2013-10-13</Value>
  </CustomField>
  <CustomField>
    <DataType>BOOLEAN</DataType>
    <Identifier>completed_boolean</Identifier>
    <Label>Completed?</Label>
    <Value>true</Value>
  </CustomField>
  <CustomField>
    <DataType>MULTI_LINE_TEXT</DataType>
```

```
<Identifier>instructions_multiLineText</Identifier>
<Label>Instructions</Label>
<Value>Please provide the comments in a bullet point format.
```

```
Keep descriptions short to aid reader</Value>
</CustomField>
<CustomField>
  <DataType>SINGLE_LINE_TEXT</DataType>
  <Identifier>preferredformat_singleLineText</Identifier>
  <Label>Preferred Format</Label>
  <Value>plain text</Value>
</CustomField>
<CustomField>
  <DataType>NUMBER</DataType>
  <Identifier>distance_number_length_metre</Identifier>
  <Label>Distance</Label>
  <Specifications>
    <Specification name="unitQuantity">length</Specification>
    <Specification name="unitName">metre</Specification>
  </Specifications>
  <Value>123</Value>
</CustomField>
<CustomField>
  <DataType>SINGLE_SELECT</DataType>
  <Identifier>status_singleSelect</Identifier>
  <Label>Status</Label>
  <Value>Rejected</Value>
</CustomField>
</CustomFields>
</Mail>
```

**Sample response** (Partial mail (transmittal) response with registered document attachment.)

**Note:** The request was initiated by a mail recipient different from the sender organization.

```
<Mail MailId="2501">
  <ActionNote/>
  <ApprovalStatus>Approved</ApprovalStatus>
  <Attachments>
    <RegisteredDocumentAttachment attachmentId="5057">
      <Confidential>false</Confidential>
      <DocumentNo>abc-000001</DocumentNo>
      <FileName>ACX_16463 Inject Handlers to VersionListControl_2.patch</FileName>
      <FileSize>7507</FileSize>
      <RegisteredAs>4912</RegisteredAs>
      <Revision>A</Revision>
      <RevisionDate>2010-03-24T13:00:00.000Z</RevisionDate>
      <Status>Approved</Status>
      <Title>AutoOff</Title>
    </RegisteredDocumentAttachment>
  </Attachments>
  <Attribute1>
    ....

    <Status>N/A</Status>
    <Subject>0001</Subject>
    <ThreadId>2501</ThreadId>
  </Mail>
```

#### Unit Table

| Unit Quantity | Unit Names                                                                                     |
|---------------|------------------------------------------------------------------------------------------------|
| time          | minute, second, month, year, hour, day, week                                                   |
| area          | squaremile, squarefoot, squareinch, squaremetre, squarekilometre, squareyard, squarecentimetre |
| percentage    | percent                                                                                        |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| length      | kilometre, metre, centimetre, yard, inch, foot, mile, millimetre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| temperature | celsius, fahrenheit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| currency    | CNY, JPY, UGX, RON, TTD, SHP, MOP, KGS, DJF, BTN, ZAR, GWP, NOK, ILS, SYP, HTG, YER, UYU, BBD, FKP, IDR, MWK, PGK, XCD, RWF, NGN, BSD, TMT, HRK, COP, GEL, DKK, VUV, FJD, MVR, MGF, AZN, MNT, QTQ, WST, VEF, KMF, GNF, SBD, BDT, KWD, MMK, TJS, JOD, NZD, PAB, CVE, CLP, MDL, KES, SRD, LRD, MUR, SAR, ARS, EGP, INR, PYG, TRY, CDF, BMD, OMR, CUP, NIO, GMD, UZS, GGP, EUR, NPR, NAD, PHP, HUF, USD, LAK, SZL, SSP, BND, TZS, SDG, LSL, KYD, LKR, MKD, MXN, CAD, AUD, ISK, LYD, SLL, PKR, ANG, THB, SCR, LBP, AED, GHS, ERN, BOB, ZMW, GIP, QAR, BHD, IRR, BWP, HNL, ALL, SEK, RSD, MYR, ETB, STD, BGN, DOP, AMD, XPF, JMD, KRW, MRO, ZWD, LVL, BIF, CZK, TND, ECS, VND, PEN, GBP, DZD, MZN, AWG, XOF, CHF, KZT, UAH, RUB, BZD, TWD, BAM, SGD, BYR, MAD, HKD, LTL, XAF, KHR, GYD, BRL, AFN, SVC, CRC, IQD, PLN, SOS, TOP, AOA, KPW |

## Error Codes Specific to the Service

| Status Code                  | Description                                                          | HTTP Status Code |
|------------------------------|----------------------------------------------------------------------|------------------|
| ENTITY_NOT_FOUND             | The mail id specified does not correspond to an actual mail          | 400              |
| ENTITY_NOT_VISIBLE           | The mail trying to be viewed is not visible to the requesting user   | 401              |
| ENTITY_NOT_FOUND_FOR_PROJECT | The mail trying to be viewed does not exist on the specified project | 400              |

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The service will not return metadata if the specified mail item is both marked as "Confidential" and where the authorizing user is **not** a recipient (or the sender for sent mails) or does not have the secured asset to view all organization mails.

## Related APIs

- Mark Mail As Read
- Download Mail Attachment
- View Mail Thread

# Mark Mail as Read

## Mark Mail As Read

This service marks mail items as read.

### Notes:

1. The user must be a recipient of the mail.
2. This will also remove unread tasks for the user.

## URL structure

```
HTTP PUT: https://{hostname}/api/projects/{projectid}/mail/{mailid}/markRead
```

## Parameters

No Parameters

## Request Fields

This operation have no request body.

#### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/1879053540/markRead
```

#### Response Fields

No Response Body. Only "Status OK" will be returned if no error occurred.

#### Error Codes specific to the service

| StatusCode                   | Description                                                          | Http Status Code |
|------------------------------|----------------------------------------------------------------------|------------------|
| ENTITY_NOT_FOUND             | The mail id specified does not correspond to an actual mail          | 400              |
| ENTITY_NOT_VISIBLE           | The mail trying to be viewed is not visible to the requesting user   | 401              |
| ENTITY_NOT_FOUND_FOR_PROJECT | The mail trying to be viewed does not exist on the specified project | 400              |

#### Prerequisites

##### Required Permissions

Should have required permissions and setup for accessing APIs

##### Preferences/Module Setup

Not Applicable.

#### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The service will not mark the mail as read if the user is not the recipient of the mail.

The service returns Status OK even if the mail is already read.

#### Related APIs

- View Mail Metadata

---

## Mark Mail as Unread

### Mark Mail As Unread

This service marks mail items as Unread.

#### Notes:

1. The user must be a recipient of the mail.
2. This will also add unread tasks for the user.

#### URL structure

```
HTTP PUT: https://{hostname}/api/projects/{projectid}/mail/{mailid}/markUnread
```

#### Parameters

No Parameters

#### Request Fields

This operation have no request body.

#### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/1879053540/markUnread
```

#### Response Fields

No Response Body. Only "Status OK" will be returned if no error occurred.

#### Error Codes specific to the service

| StatusCode                   | Description                                                          | Http Status Code |
|------------------------------|----------------------------------------------------------------------|------------------|
| ENTITY_NOT_FOUND             | The mail id specified does not correspond to an actual mail          | 400              |
| ENTITY_NOT_VISIBLE           | The mail trying to be viewed is not visible to the requesting user   | 401              |
| ENTITY_NOT_FOUND_FOR_PROJECT | The mail trying to be viewed does not exist on the specified project | 400              |

#### Prerequisites

##### Required Permissions

Should have required permissions and setup for accessing APIs

##### Preferences/Module Setup

Not Applicable.

#### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The service will not mark the mail as Unread if the user is not the recipient of the mail.

The service returns Status OK even if the mail is already Unread.

#### Related APIs

- View Mail Metadata
- Mark Mail as Read

---

## Download Mail Attachment

### Download Mail Attachment

The service retrieves a single attachment file associated with the specified mail item.

#### Notes:

1. If the attachment is a file containing markups, the marked-up version can be downloaded by adding the optional keyword "markedup" to the URL.
2. Marked up attachments are returned in PDF format. Attachments without markup are retrieved in their original format.
3. The filename of the attachment will be stripped of semi-colons, should any exist.
4. All files retrieved are base-64 encoded.
5. This API honors the project preference Rename files on download to include Document Number and Revision when the attachment is a registered document. When this preference is enabled, files downloaded through the API are renamed to include the document number and revision, consistent with downloads from the web UI.
6. The Content-Disposition response header includes both filename and filename\* parameters. The filename\* parameter is the UTF-8 capable parameter, so clients that support it can usually decode it and recover the correct filename. The filename parameter, is intended to be an ASCII-safe fallback for clients that do not consume filename\*.

#### URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/mail/{mailid}/attachments/{attachmentid}/[markedup]
```

## Parameters

| Parameters | Type(maxlength) | Cardinality | Notes |
|------------|-----------------|-------------|-------|
|------------|-----------------|-------------|-------|

## Interface

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/1879099264/attachments/1879027449/markedup
```

### Response Fields

Not applicable. The response is a binary stream of the file associated with the attachment.

### Sample response

Not applicable.

## Error Codes Specific to the Service

| StatusCode                      | Description                                    | HTTP Status Code |
|---------------------------------|------------------------------------------------|------------------|
| CANNOT_DOWNLOAD_MAIL_ATTACHMENT | Cannot download an attachment which is a mail. | 400 Bad Request  |

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The authorizing user cannot download the file attachment if the mail item is both marked as "Confidential" and where the authorizing user is **not** a recipient (or the sender for sent mails).

Due to the URL structure, the service can only retrieve one attachment at a time. Unlike the GUI, the service cannot retrieve multiple attachments in a single request.

The service can only return file attachments. Attachments that are other mail items cannot be retrieved using this service, instead please refer to *View Mail Metadata* API service for further information.

## Related APIs

- List Mail
- View Mail Metadata

---

## View Custom Fields Schema

### View Custom Fields Schema

This service returns the custom fields schema for the specified project's mail type.

## URL structure

```
HTTPS GET: https://{hostname}/api/projects/{projectid}/customfields/context/{projectid}/subcontext/{mailTypeId}/schema
```

If-None-Match header should be provided if [ETag value is known](#).

## Parameters

There are no query parameters required for this service.

## Interface

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048200/schema
```

```
[HTTP Header]
If-None-Match: 5d678h
```

### Response Headers

Server will provide response with [ETag](#) header:

```
ETag: "5d678h"
```

Client should provide E-Tag in request with If-None-Match header.

```
If-None-Match: "5d678h"
```

If tag is provided in request and schema has not changed since last retrieval, server will respond with 302 Not Modified without payload. Otherwise server will return full payload.

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element           | Type (maxlength)  | Cardinality | Notes                                                                                                                                                                                                                   |
|-------------------|-------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CustomFields      | Group             | 1           | List of custom fields.                                                                                                                                                                                                  |
| * CustomField     | Group             | 0..n        |                                                                                                                                                                                                                         |
| * type            | Attribute String  | 1           | The custom field data type which will be one of: <ul style="list-style-type: none"><li>• BOOLEAN</li><li>• SINGLE_LINE_TEXT</li><li>• MULTI_LINE_TEXT</li><li>• DATE</li><li>• NUMBER</li><li>• SINGLE_SELECT</li></ul> |
| * mandatory       | Attribute Boolean | 1           | Value for mandatory field must be provided on sending.                                                                                                                                                                  |
| * identifier      | Attribute String  | 1           | Custom field identifier.                                                                                                                                                                                                |
| ** Label          | String            | 1           | Localized custom field label.                                                                                                                                                                                           |
| ** HintText       | String            | 0..1        | Localized custom field hint text.                                                                                                                                                                                       |
| ** Specifications | Group             | 0..1        | Contextual information for the custom field value e.g. unit name /quantity.                                                                                                                                             |
| *** Specification | Group             | 1..n        |                                                                                                                                                                                                                         |

|            |                  |      |                                                                                                                                                                                                                                                                                                                                                             |
|------------|------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** name   | Attribute String | 1    | Specification name (refer to <a href="#">Unit Table</a> ): <ul style="list-style-type: none"> <li>unitQuantity (for NUMBER type only, e.g. length)</li> <li>unitName (for NUMBER type only, e.g. metre)</li> <li>minLength (for SINGLE_LINE_TEXT type only, e.g. 10)</li> <li>maxLength (e.g. 20)</li> <li>options (for SINGLE_SELECT type only)</li> </ul> |
| *** Option | Group            | 0..n | Possible options for SINGLE_SELECT type                                                                                                                                                                                                                                                                                                                     |

### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<CustomFields>
  <CustomField type="DATE" mandatory="false" identifier="deadline_date">
    <HintText>What is the deadline?</HintText>
    <Label>Deadline</Label>
  </CustomField>
  <CustomField type="BOOLEAN" mandatory="false" identifier="completed_boolean">
    <HintText>Is the task complete?</HintText>
    <Label>Completed?</Label>
  </CustomField>
  <CustomField type="MULTI_LINE_TEXT" mandatory="false" identifier="feedback_multiLineText">
    <HintText>Any feedback?</HintText>
    <Label>Feedback</Label>
    <Specifications>
      <Specification name="maxLength">4000</Specification>
    </Specifications>
  </CustomField>
  <CustomField type="SINGLE_LINE_TEXT" mandatory="false" identifier="colour_singleLineText">
    <HintText>What is your favourite colour?</HintText>
    <Label>Favourite Colour</Label>
    <Specifications>
      <Specification name="maxLength">20</Specification>
      <Specification name="minLength">0</Specification>
    </Specifications>
  </CustomField>
  <CustomField type="NUMBER" mandatory="false" identifier="pipelength_number_length_metre">
    <HintText>What is your pipe length?</HintText>
    <Label>Pipe Length</Label>
    <Specifications>
      <Specification name="maxLength">25</Specification>
      <Specification name="unitName">metre</Specification>
      <Specification name="unitQuantity">length</Specification>
    </Specifications>
  </CustomField>
  <CustomField type="SINGLE_SELECT" mandatory="false" identifier="status_singleSelect">
    <HintText>Proposal status</HintText>
    <Label>Status</Label>
    <Specifications>
      <Specification name="options">
        <Option>Rejected</Option>
        <Option>Approved</Option>
        <Option>Proposed</Option>
      </Specification>
    </Specifications>
  </CustomField>
</CustomFields>
```

### Error Codes Specific to the Service

There are no error codes specific to this service.

### Prerequisites

#### Required Permissions

There are no required permissions to use this service.

#### Preferences/Module Setup

Not Applicable.

Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

Related APIs

- View Mail Metadata
- Create Mail
- Reply Mail
- Forward Mail
- Register Mail

Create Mail

Create Mail

The service creates a new mail item in the specified project.

URL structure

HTTP POST: https://{hostname}/api/projects/{projectid}/mail

Parameters

| Parameters | Type(maxlength) | Cardinality | Notes |
|------------|-----------------|-------------|-------|
|------------|-----------------|-------------|-------|

Interface

HTTP Request Header variables

As the request body has content that is multipart/mixed, a boundary identifier must be specified in the request header (as a key/value pair). This boundary is used to separate data of different types, e.g. text and binary.

Sample Header

Content-Type=multipart/mixed; boundary="myboundary"

Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name      | Type (maxlength) | Cardinality | Notes                                                                                                                                                                             |
|-----------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail            | Group            | 1           |                                                                                                                                                                                   |
| * AttachedDocId | String           | 0..n        |                                                                                                                                                                                   |
| * Attribute1+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute2+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute3+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute4+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * BccUserId     | String           | 0..n        | UserId(s) of BCC recipients                                                                                                                                                       |
| * CcUserId      | String           | 0..n        | UserId(s) of CC recipients                                                                                                                                                        |
| * Confidential  | Boolean          | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail |
| * MailBody      | String(2GB)      | 0..1        | If body contains html or special characters, the content must be escaped or enclosed in a CDATA tag: For e.g. <![CDATA[<h1>Test Header </h1><b>test mail ]]>                      |
| * MailSubject*  | String(250)      | 1           |                                                                                                                                                                                   |

|                         |                        |      |                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * MailTypeId*           | Integer(32-bit signed) | 1    |                                                                                                                                                                                                                                                                                                                                                             |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1 |                                                                                                                                                                                                                                                                                                                                                             |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1 |                                                                                                                                                                                                                                                                                                                                                             |
| * ResponseRequiredDate  | String                 | 0..1 | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                                                                                                                                                                         |
| * RichMailText*         | Boolean                | 1    | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text.                                                                                                                                                                                                                    |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1    | Value of '0' if no the correspondence contains no attachments                                                                                                                                                                                                                                                                                               |
| * ToUserId*             | String                 | 1..n | UserId(s) of TO recipients                                                                                                                                                                                                                                                                                                                                  |
| * CustomFields*         | Group                  | 0..1 | Custom field values.                                                                                                                                                                                                                                                                                                                                        |
| ** CustomField*         | String                 | 0..n | Custom field value. Allowed values per type: <ul style="list-style-type: none"> <li>• boolean: true, false</li> <li>• number: 123, 145.3, -45 etc</li> <li>• date: yyyy-mm-dd e.g. 2014-02-23</li> <li>• singleLineText: single line of text</li> <li>• multiLineText: text separated by newline characters</li> <li>• singleSelect: option text</li> </ul> |
| ** identifier*          | Attribute              | 1    | Custom field identifier                                                                                                                                                                                                                                                                                                                                     |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Using part boundaries

Boundaries are marked using

```
--<boundaryName>
```

The exception to this is the final boundary in the POST content, which terminates with

```
--<boundaryName>--
```

Refer to the sample request(s) below for further detail.

### Attaching registered documents

Registered documents may be attached **only** to mail items that are of type "Transmittal" or "Tender Transmittal".

The additional part(s) consist of the DocumentId of the registered document that you wish to attach, followed by an empty line.

The maximum number of registered documents that may be attached is determined by a configurable limit (default value is 500).

### Attaching local files

Local files may be attached to mail items that are **not** of type "Transmittal" or "Tender Transmittal".

The additional part(s) consist of a filename for the file, followed by an empty line, then the (binary) file contents, encoded in base-64. There must also be an empty line between the end of the binary contents and the next boundary.

There is no limit to the number of local files that may be attached.

| Parameters    | Type(maxlength) | Cardinality | Notes                                                         |
|---------------|-----------------|-------------|---------------------------------------------------------------|
| X-Filename    | String(255)     | 0..n        | Arbitrary filename used to identify the local file attachment |
|               |                 |             | base-64 encoded binary contents of the file                   |
| X-DocumentsId | String          | 0..n        | Id of the registered document to attach                       |

Refer to the sample request(s) below for further detail.

## Sample request

https://au1.aconex.com/api/projects/1879048422/mail/

[HTTP Header]

Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]

--myboundary

<Mail>

<Attribute1>Administration</Attribute1>

<Attribute1>Podium</Attribute1>

<Attribute2>WP3.01 - Cladding</Attribute2>

<Attribute3>A valid value of Attribute 3</Attribute3>

<Attribute4>Archive - Australia</Attribute4>

<Attribute4>Archive - Middle East</Attribute4>

<BccUserId>1879049123</BccUserId>

<BccUserId>1879049126</BccUserId>

<CcUserId>1879049184</CcUserId>

<CcUserId>1879049256</CcUserId>

<MailBody>

&lt;/DIV&gt;&lt;/DIV&gt;

&lt;/DIV&gt;&lt;BR&gt;An email with a pre-defined signature.&lt;BR&gt;&lt;BR&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;

&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;Vince Costanza&lt;?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" /&gt;&lt;o:p&gt;&lt;/o:p&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;

&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;&lt;FONT color=#000000&gt;&lt;/FONT&gt;&lt;SPAN style="COLOR: #ff6600&gt;&lt;X&lt;/SPAN&gt;&lt;FONT color=#000000&gt;CITE ELECTRICAL&lt;o:p&gt;&lt;/o:p&gt;&lt;/FONT&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;

&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;tel: &lt;SPAN style="mso-spacerun: yes"&gt;&lt;&lt;nb&sp&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;

&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;fax:&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt; +61 5 24644416&lt;o:p&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;/P&gt;

&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff5050; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;&lt;o:p&gt;&lt;nb&sp&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;

&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 7.5pt; COLOR: gray; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma; mso-bidi-font-size: 8.0pt"&gt;This email and any attachments are intended solely for the addressee. The contents may be privileged, confidential and/or subject to copyright or other applicable law. No confidentiality or privilege is lost by an erroneous transmission. If you have received this e-mail in error, please let us know by reply e-mail and delete or destroy this mail and all copies. If you are not the intended recipient of this message you must not disseminate, copy or take any action in reliance on it. The sender takes no responsibility for the effect of this message upon the recipient's computer system.&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;

&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;&lt;BR&gt;&lt;BR&gt;&lt;BR&gt;&lt;/DIV&gt;

&lt;DIV align=left&gt;

&lt;HR&gt;

&lt;FONT face=Tahoma size=1&gt;&lt;B&gt;From:&lt;/B&gt; Patrick O'Leary &lt;BR&gt;&lt;B&gt;Sent:&lt;/B&gt; 17/11 /2009 1:50:49 PM EST (GMT +11:00)&lt;BR&gt;&lt;B&gt;To:&lt;/B&gt; Vince Costanza &lt;B&gt;:&lt;/B&gt; Charlie Putrino &lt;BR&gt;&lt;B&gt;Mail Number:&lt;/B&gt; TRANSMIT-000184 &lt;BR&gt;&lt;B&gt;Subject:&lt;/B&gt; Attachments for comments required &lt;/FONT&gt;&lt;BR&gt;&lt;BR&gt;&lt;BR&gt;&lt;/DIV&gt;Some attachments to comment on.&lt;BR&gt;&lt;BR&gt;Bring some.

</MailBody>

<MailSubject>Test Create Mail 0015</MailSubject>

<MailTypeId>1879048200</MailTypeId>

<ReasonForIssue>4</ReasonForIssue>

<ResponseRequired>3</ResponseRequired>

<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>

<RichMailText>true</RichMailText>

<TotalAttachmentCount>4</TotalAttachmentCount>

<ToUserId>1879049087</ToUserId>

```
<ToUserId>1879049309</ToUserId>
<CustomFields>
<CustomField identifier="completed_boolean">false</CustomField>
<CustomField identifier="paymentdue_date">2013-12-20</CustomField>
<CustomField identifier="job_singleLineText">Software Engineer</CustomField>
<CustomField identifier="experience_multiLineText">Experienced in all aspects
of the software lifecycle.</CustomField>
<CustomField identifier="satisfaction_singleSelect">High</CustomField>
<CustomField identifier="commute_number_length_kilometre">25</CustomField>
</CustomFields>
</Mail>
--myboundary
X-DocumentId: 1879099024

--myboundary
X-DocumentId: 1879099380

--myboundary
X-MailId: 1879048223

--myboundary
X-Filename: localFile01.pdf

%PDF-1.2
%âãÏÓ

1 0 obj
<<
/Type /Catalog
/Pages 3 0 R
/Outlines 2 0 R
>>
endobj
2 0 obj
<<
/Type /Outlines
/Count 0
>>
endobj
3 0 obj
<<
/Type /Pages
/Count 1
/Kids [6 0 R ]
>>
endobj
4 0 obj
[/PDF /ImageC ]
endobj
5 0 obj
<<
/Producer (ViewCompanion)
/CreationDate (Monday, 22 May 2006 12:40:35 AM)
>>
endobj
7 0 obj
<</Length 8 0 R
/Filter [/FlateDecode]

>>
stream
xœi%»@eÉ®,æ`yÄp,Äx?Üâ@6...ë]@€Pó'£ß×`2,fŽU|Ô8,,āTWEEæİA2ß$sp÷yŰ`y`ÿy¿pè?¡Ó4ý[ÿüßp-7ôýú?
pðÿüÿø÷ôÿÿÉy¿ÿyÁuÇt-Vø¿òðÿÿ%İËôİ!çe
âç¿pâ`ýç>İ?¶ÜÄë©ÉhûtØ?qu|L?øëßó6İ?ŽYhó1yXİ@ev×½•}ëGüÑ@øEÖ°s}GZ@YpªÓJ÷u/H´j»¶Öª$JmÜüçp™N-òüç6Áæİ
[çýp±ßŽÄŞİçSi÷ýä°
H-±İÄŞb"ü9Ôă•-Ē,,«µë@|Y¡èhø-qš-)èÈ- R?"@CNÖ¶-;>üøqo-¶6â`Ó-GÿÜ£e»--¶@æG%-myz...FðÐ-ùÇ:'J»-æG¥)´ÖmShD
m[ [ i ] ´yé-W;m@fâK%¹Q~B{owÔ-ô-ä6w?°\Ēİ-tß-Mö,÷3"ôó´Úfİ
yªÔ¶<¿8µ†İ?ðVpyú@™ÇòteqdóĒ×$
-#w3ĒEëYŽ!¥!çòă,
İµ/O<7"ê:ÿX%æ×FVû9Wum¶²...6KmİĒ ©ĀJ3ŽFEMŞ#•] h@*mür ...6ÿ,`İÆr*Ű>:Ûç6]0-GÄ¿VİàI{ }p=m¿~İgİİÜkh³OI{"zO=İ¼-
<ðžİëëİó3&-0,0³ÿĒ°- kù€{úq÷İ¿İkùÁŞ>M{G:³Q!Y'X;ðöç{&KýÓ'Øµ Ò†ðÓ"±@Ēü@z{ªáóG"è>u8&4ÐLC@:ÚtÄ`-÷ž}#Äg²;-
```

HO>1ræèJ{f«é(µ90ÑöfwZ03ää`äclµmŽt`e³9Ik>SG/uzmlNŮ©´ânGj³!hit9w>I¥6 i±Žy/µ=ß~\_m{,{©í'Ž¶pæ¶%,İjkhŮ|Ů~©µ90Ófd  
¥¶ŮèBS0>Ÿ.3`ZZöH)İrFW¹`...İ1%yðâÈ§"¶-5¤  
UúEI;±Ů!,ª`k+ ŠSksw´PVŮ|Ê  
Ú£èó(µ=]æ~4)jSC  
š;öæ†Ziia~-yð%ƒHmèD-: `ô!0ivxih18Dm:8\$-  
,Z>>İ!öú¥Žt4ô¤6£•-ƒ\*k+ƒjĐ|@ŮŮ|Đæ°yñ™>£<5òoŮfÈ}òÑÃÈ%#0FİÚŠ'-£<5òendstream  
endobj  
8 0 obj  
419504  
endobj  
6 0 obj  
<<  
/Type /Page  
/Parent 3 0 R  
/Resources <<  
/ProcSet 4 0 R  
>>  
/MediaBox [ 0 0 2306 1610 ]  
/CropBox [ 0 0 2306 1610 ]  
/Contents 7 0 R  
>>  
endobj  
xref  
0 9  
0000000000 65535 f  
0000000021 00000 n  
0000000093 00000 n  
0000000145 00000 n  
0000000211 00000 n  
0000000245 00000 n  
0000419956 00000 n  
0000000346 00000 n  
0000419931 00000 n  
trailer  
<<  
/Size 9  
/Root 1 0 R  
/Info 5 0 R  
>>  
startxref  
420118  
%%EOF  
  
--myboundary  
X-Filename: localFile02.xls  
  
l=XİöÄ`èáŮ\p1»MhŸ9£Mà~İV@dDAİ×aV×B™[Ÿ`ƒJÃ-P|8`Ö„AŮV^...ó¹ƒ  
İH İn÷bŮ-Æé"áed>ôzİŮ`næ"ÇŠ¹ €00đ'>äbµ- -&ŮŮİâ¤2»Æv¹÷bĂKyİ¼¤óöD:²¤ææ,AGm`Ů\nzÈÇiŮÃ™ã¼.uİ†YC%6İOMƒ"â3o¶rÄÜ\$`Ä5...  
µŮæÄNH...T[XF64İT,Ñæ~üÈM0èE)`#Ÿ5¤XYƒ`ø×¤  
  
--myboundary--

Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element        | Type(maxlength)  | Cardinality | Notes                                                                                                                                                               |
|----------------|------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SendMailResult | Group            | 1           |                                                                                                                                                                     |
| sendStatus     | Attribute String | 1           | Describes the status of the mail transmission. One of <ul style="list-style-type: none"><li>MailSent</li><li>MailWaitingForApproval</li><li>NotAuthorised</li></ul> |

|             |        |      |                                                             |
|-------------|--------|------|-------------------------------------------------------------|
| * NewMailId | String | 0..1 | The mailId of the new mail, if it was successfully created. |
|-------------|--------|------|-------------------------------------------------------------|

#### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">
  <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

#### Error Codes Specific to the Service

| Status Code                       | Description                                                                                                                                             | HTTP Status Code |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| BAD_BASE64_DATA                   | The base64 data for the file <filename> was found to be invalid...                                                                                      | 400 Bad Request  |
| NO_RECIPIENTS                     | No recipients to send mail to specified                                                                                                                 | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                     | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                           | 400 Bad Request  |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : Cannot send to recipients that are not in the same organization                                   | 400 Bad Request  |
| INVALID_FUTURE_DATE               | The date [InvalidDate] for the field [FieldName] must be in the future                                                                                  | 400 Bad Request  |
| INVALID_FIELD_VALUE               | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                        | 400 Bad Request  |
| UNEXPECTED_FIELD_VALUE            | User provided unnecessary property value. ReasonForIssue is only valid certain mail types.                                                              | 400 Bad Request  |
| MULTIPLE_ATTACHMENT_HEADERS_FOUND | Multiple headers received for multipart attachment <del>x-document, -abedefg</del> . Only a single header is expected                                   | 400 Bad Request  |
| INVALID_ATTACHMENT_COUNT          | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments | 400 Bad Request  |
| CANNOT_ATTACH_LOCAL_FILES         | Cannot attach local files for mail type which is a transmittal                                                                                          | 400 Bad Request  |
| FIELD_LENGTH_TOO_SHORT            | Provided custom fields value is less than the minimum allowed length for it                                                                             | 400 Bad Request  |
| DUPLICATED_FIELD                  | Provided multiple custom fields with same identifier                                                                                                    | 400 Bad Request  |
| INVALID_FIELD_IDENTIFIER          | Provided custom field which is not associated with this mail type                                                                                       | 400 Bad Request  |
| INVALID_FIELD_HIERARCHY_VALUES    | Provided custom field values do not correspond to hierarchy values defined on the project                                                               | 400 Bad Request  |

#### Prerequisites

##### Required Permissions

The authorizing user (specified in the request header) must have been granted the secured asset to create mail.

##### Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of active fields, prior to constructing a request.

#### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user does not have access to the specified project.

Can only attach registered documents that the user has access to.

Users are only allowed to create mails of the types that they are permitted to create, and no others. While numerous mail types may be configured for use on the project only a subset may be available to an individual user. There is currently no way of obtaining the list of usable mail types for individual users through the APIs. An error will be generated (INVALID\_FIELD\_VALUE) if the specified mail type is unavailable to the authorizing user.

Depending on project configuration (Invitation mode), the From User and recipient(s) may be selected from the Project Directory only, or from the Global Directory.

Related APIs

- List Projects for User
- View Mail Schema

Reply Mail

Reply Mail

The service creates a reply to an existing mail item in the specified project.

URL structure

```
HTTP POST: https://{hostname}/api/projects/{projectid}/mail/{mailid}/reply
```

Parameters

| Parameters | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
|------------|------------------|-------------|-------|

Interface

HTTP Request Header variables

As the request body has content that is multipart/mixed, a boundary identifier must be specified in the request header (as a key/value pair). This boundary is used to separate data of different types, e.g. text and binary.

Sample Header

Content-Type=multipart/mixed; boundary="myboundary"

Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name     | Type (maxlength) | Cardinality | Notes                                                                                                                                                                                    |
|----------------|------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail           | Group            | 1           |                                                                                                                                                                                          |
| * Attribute1+  | String(200)      | 0..n        |                                                                                                                                                                                          |
| * Attribute2+  | String(200)      | 0..n        |                                                                                                                                                                                          |
| * Attribute3+  | String(200)      | 0..n        |                                                                                                                                                                                          |
| * Attribute4+  | String(200)      | 0..n        |                                                                                                                                                                                          |
| * BccUserId    | String           | 0..n        | UserId(s) of BCC recipients                                                                                                                                                              |
| * CcUserId     | String           | 0..n        | UserId(s) of CC recipients                                                                                                                                                               |
| * Confidential | Boolean          | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this mail.<br><br><b>Note:</b> An exception is where a user has the secured asset to search ANY confidential mail. |
| * MailBody     | String(2GB)      | 0..1        |                                                                                                                                                                                          |
| * MailSubject* | String(250)      | 1           |                                                                                                                                                                                          |

|                         |                        |      |                                                                                                                                                                                                              |
|-------------------------|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * MailTypeId*           | Integer(32-bit signed) | 1    |                                                                                                                                                                                                              |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1 |                                                                                                                                                                                                              |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1 |                                                                                                                                                                                                              |
| * ResponseRequiredDate  | String                 | 0..1 | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                          |
| * RichMailText*         | Boolean                | 1    | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text                                                                      |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1    | The number of attachments expected in this correspondence. This value is verified against the total number of "parts" included in the request. A value of '0' if the correspondence contains no attachments. |
| * ToUserId*             | String                 | 1..n | UserId(s) of TO recipients                                                                                                                                                                                   |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Attaching other items to mail

This is achieved by creating additional parts to the request, using the part boundary defined in the request header.

### Using part boundaries

Boundaries are marked using

```
--<boundaryName>
```

The exception to this is the final boundary in the POST content, which terminates with

```
--<boundaryName>--
```

Refer to the sample request(s) below for further detail.

### Attaching registered documents

Registered documents may be attached **only** to mail items that are of type "Transmittal" or "Tender Transmittal".

The additional part(s) consist of the DocumentId of the registered document that you wish to attach, followed by an empty line.

The maximum number of registered documents that may be attached is determined by a configurable limit (default value is 500).

### Attaching local files

Local files may be attached to mail items that are **not** of type "Transmittal" or "Tender Transmittal".

The additional part(s) consist of a filename for the file, followed by an empty line, then the (binary) file contents, encoded in base-64. There must also be an empty line between the end of the binary contents and the next boundary.

There is no limit to the number of local files that may be attached.

| Parameters   | Type (maxlength) | Cardinality | Notes                                                         |
|--------------|------------------|-------------|---------------------------------------------------------------|
| X-Filename   | String(255)      | 0..n        | Arbitrary filename used to identify the local file attachment |
|              |                  |             | base-64 encoded binary contents of the file                   |
| X-DocumentId | String           | 0..n        | Id of the registered document to attach                       |

Refer to the sample request(s) below for further detail.

### Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/1879049444/reply
```

```
[HTTP Header]
```

```
Content-Type=multipart/mixed; boundary="myboundary"
```

```
[HTTP Post content]
```

--myboundary

<Mail>  
<Attribute1>Administration</Attribute1>  
<Attribute1>Podium</Attribute1>  
<Attribute2>WP3.01 - Cladding</Attribute2>  
<Attribute3>A valid value of Attribute 3</Attribute3>  
<Attribute4>Archive - Australia</Attribute4>  
<Attribute4>Archive - Middle East</Attribute4>  
<BccUserId>1879049123</BccUserId>  
<BccUserId>1879049126</BccUserId>  
<CcUserId>1879049184</CcUserId>  
<CcUserId>1879049256</CcUserId>  
<MailBody>  
&lt;DIV&gt;&lt;/DIV&gt;  
&lt;DIV&gt;&lt;BR&gt;An email with a pre-defined signature.&lt;BR&gt;&lt;BR&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;Vince Costanza&lt;?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" /&gt;&lt;o:p&gt;&lt;/o:p&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;&lt;FONT color=#000000&gt;E&lt;/FONT&gt;&lt;SPAN style="COLOR: #ff6600"&gt;X&lt;/SPAN&gt;&lt;FONT color=#000000&gt;CITE ELECTRICAL&lt;o:p&gt;&lt;/o:p&gt;&lt;/FONT&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;tel: &lt;SPAN style="mso-spacerun: yes"&gt;&amp;nbsp; &lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;&lt;+61 5 24644415&lt;o:p&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;fax:&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;&lt;+61 5 24644416&lt;o:p&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff5050; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;&lt;o:p&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 7.5pt; COLOR: gray; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma; mso-bidi-font-size: 8.0pt"&gt;This email and any attachments are intended solely for the addressee. The contents may be privileged, confidential and/or subject to copyright or other applicable law. No confidentiality or privilege is lost by an erroneous transmission. If you have received this e-mail in error, please let us know by reply e-mail and delete or destroy this mail and all copies. If you are not the intended recipient of this message you must not disseminate, copy or take any action in reliance on it. The sender takes no responsibility for the effect of this message upon the recipient's computer system.&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;BR&gt;&lt;BR&gt;&lt;BR&gt;&lt;/DIV&gt;  
&lt;DIV align=left&gt;  
&lt;HR&gt;  
&lt;FONT face=Tahoma size=1&gt;&lt;B&gt;From:&lt;/B&gt; Patrick O'Leary &lt;BR&gt;&lt;B&gt;Sent:&lt;/B&gt; 17/11/2009 1:50:49 PM EST (GMT +11:00)&lt;BR&gt;&lt;B&gt;To:&lt;/B&gt; Vince Costanza &lt;B&gt;:&lt;/B&gt; Charlie Putrino &lt;BR&gt;&lt;B&gt;Mail Number:&lt;/B&gt; TRANSMIT-000184 &lt;BR&gt;&lt;B&gt;Subject:&lt;/B&gt; Attachments for comments required &lt;/FONT&gt;&lt;BR&gt;&lt;BR&gt;&lt;BR&gt;&lt;BR&gt;&lt;/DIV&gt;Some attachments to comment on.&lt;BR&gt;&lt;BR&gt;Bring some.  
</MailBody>  
<MailSubject>Test Create Mail 0015</MailSubject>  
<MailTypeId>1879048200</MailTypeId>  
<ReasonForIssue>4</ReasonForIssue>  
<ResponseRequired>3</ResponseRequired>  
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>  
<RichMailText>true</RichMailText>  
<TotalAttachmentCount>4</TotalAttachmentCount>  
<ToUserId>1879049087</ToUserId>  
<ToUserId>1879049309</ToUserId>  
</Mail>

--myboundary

X-DocumentId: 1879099024

--myboundary

X-DocumentId: 1879099380

--myboundary

```
--myboundary
X-Filename: localFile01.pdf
```

```

1 0 obj
<<
/Type /Catalog
/Pages 3 0 R
/Outlines 2 0 R
>>
endobj
2 0 obj
<<
/Type /Outlines
/Count 0
>>
endobj
3 0 obj
<<
/Type /Pages
/Count 1
/Kids [6 0 R ]
>>
endobj
4 0 obj
[/PDF /ImageC ]
endobj
5 0 obj
<<
/Producer (ViewCompany)
/CreationDate (Monday,
>>
endobj
7 0 obj
<</Length 8 0 R
/Filter [/FlateDecode]

```

```
>>
stream
xæi½»@eÉ@,æ`ÿÃþ,Âx?Úâ©6...ë]@€Pó'£ß×`2,fŹU|Ô8,ãTwEEæÎA2ß$Sp÷ÿù`ÿ`ÿÿ¿þè?¡ó4ý[ÿüßþ-7ðÿý?
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-#W3£eYŽ!¥!çðã,
jµ/0<7"è:ýX¾æ×FV09Wum¶²...6Km;Ě ©ĀJ3ŽFEMš#•] h*µmür ...6ÿ,`ÍÆr*Ů>:ûç6]ø-GÀ¿ViàI{ }þ=m¿-İg;íŮkh³OI{"z0=í¼-
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H0>1ræèEJ{f«è(µ9ðÑðfWZ03ää`àclµmŽt`e³9Ik>šG/uZm1ŮŮŮ`ânGj³!hít9w>I¥6 í±Žÿ/µ=ß-_=m{,{©Ĭ`Ž¶æ¶¾%,İjkhŮ|ù`©µ9ðóðfð
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Uú£I;±ú!,ª`k+ šSksw`PvŮ|Ě
Ú£èó(µ=]æ~4)jSC
š;Ůæ†Ziîä-ÿð¾fHmèD-:``Ů|øiVxih18Dm:8$-
,Z>±|ŮúÿŽt4ð÷6£•-f*k+fjð|@ŮŮ|ðæ°ÿñ™">£<5ðøðfÈ}ðÑÂĚ¾#OFÎÚš'-£<5ðendstream
endobj
8 0 obj
419504
endobj
6 0 obj
<<
/Type /Page
/Parent 3 0 R
/Resources <<
/ProcSet 4 0 R
>>
/MediaBox [ 0 0 2306 1610 ]
```

```
/CropBox [ 0 0 2306 1610 ]
/Contents 7 0 R
>>
endobj
xref
0 9
0000000000 65535 f
0000000021 00000 n
0000000093 00000 n
0000000145 00000 n
0000000211 00000 n
0000000245 00000 n
0000419956 00000 n
0000000346 00000 n
0000419931 00000 n
trailer
<<
/Size 9
/Root 1 0 R
/Info 5 0 R
>>
startxref
420118
%%EOF

--myboundary
X-Filename: localFile02.xls

l=XíðÀ`éäü\p1»Mhÿ9EMà~ÌV@dDAí×aV×B™[Ý^fJÄ-P|8`Ö„AÜV^...ó¹f
ÎH ín÷pÜ-Æé"á€d>Özİû`nœ"Ç$¹ €00δ'>äbμ- -&üÜîâ²»Æv¹÷pÄKyİ¼ºóôD:²ºœœ,AGm`Ö\nzÊÇiÜÃ™ã¼.uİ†YC%6iOMf"â3o¶rÄÜ$"Ã5...
µüœÂNH...T[XF64İT,Ñœ~üÊM0êE)`#ÿ5ºXYf`ø×º

--myboundary--
```

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*s indicate the parent-child depth.

| Element        | Type (maxlength) | Cardinality | Notes                                                                                                                                                                |
|----------------|------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SendMailResult | Group            | 1           |                                                                                                                                                                      |
| sendStatus     | Attribute String | 1           | Describes the status of the mail transmission. One of: <ul style="list-style-type: none"><li>MailSent</li><li>MailWaitingForApproval</li><li>NotAuthorised</li></ul> |
| * NewMailId    | String           | 0..1        | The mailId of the new mail, if it was successfully created.                                                                                                          |

### Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">
<NewMailId>1879053577</NewMailId>
</SendMailResult>
```

### Error Codes Specific to the Service

| Status Code     | Description                                                        | HTTP Status Code |
|-----------------|--------------------------------------------------------------------|------------------|
| BAD_BASE64_DATA | The base64 data for the file <filename> was found to be invalid... | 400 Bad Request  |

|                          |                                                                                                                                                         |                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| NO_RECIPIENTS            | No recipients to send mail to specified                                                                                                                 | 400 Bad Request |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                     | 400 Bad Request |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                           | 400 Bad Request |
| INVALID_FIELD_VALUE      | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                        | 400 Bad Request |
| INVALID_ATTACHMENT_COUNT | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments | 400 Bad Request |
| UNEXPECTED_FIELD_VALUE   | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                         | 400 Bad Request |

## Prerequisites

### Required Permissions

- The authorizing user (specified in the request header) must have been granted the secured asset to create mail.
- The authorizing user (specified in the request header) must have access to the items that he/she wishes to attach to the reply.

### Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of active fields, prior to constructing a request.

## Constraints

### Project state

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

### Other

- The request will also fail if the authorizing user does not have access to the specified project, or is not permitted to view the original mail that he/she is trying to reply to.
- Can only attach registered documents and/or mail items that exist in the **same** project that the original mail belongs to, and the authorizing user must have access to them.
- All other fields can change value (recipient list, attributes, subject, body) - the field can be omitted entirely as long as it is not a mandatory field.

Users are only allowed to create mails of the types that they are permitted to create, and no others. While numerous mail types may be configured for use on the project only a subset may be available to an individual user. There is currently no way of obtaining the list of usable mail types for individual users through the APIs. An error will be generated (INVALID\_FIELD\_VALUE) if the specified mail type is unavailable to the authorizing user.

## Related APIs

- List Projects for User
- View Mail Schema
- Create Mail
- Forward Mail

## Forward Mail

### Forward Mail

The service creates a forward of an existing mail item in the specified project.

### URL structure

```
HTTP POST: https://{hostname}/api/projects/{projectid}/mail/{mailid}/forward
```

### Parameters

| Parameters | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
|------------|------------------|-------------|-------|

## Interface

## HTTP Request Header variables

As the request body has content that is multipart/mixed, a boundary identifier must be specified in the request header (as a key/value pair). This boundary is used to separate data of different types (Eg, text and binary).

### Sample Header

Content-Type=multipart/mixed; boundary="myboundary"

### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name              | Type (maxlength)       | Cardinality | Notes                                                                                                                                                                                                        |
|-------------------------|------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail                    | Group                  | 1           |                                                                                                                                                                                                              |
| * Attribute1+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute2+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute3+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * Attribute4+           | String(200)            | 0..n        |                                                                                                                                                                                                              |
| * BccUserId             | String                 | 0..n        | UserId(s) of BCC recipients                                                                                                                                                                                  |
| * CcUserId              | String                 | 0..n        | UserId(s) of CC recipients                                                                                                                                                                                   |
| * Confidential          | Boolean                | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail                            |
| * MailBody              | String(2GB)            | 0..1        |                                                                                                                                                                                                              |
| * MailSubject*          | String(250)            | 1           |                                                                                                                                                                                                              |
| * MailTypeId*           | Integer(32-bit signed) | 1           |                                                                                                                                                                                                              |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                              |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1        |                                                                                                                                                                                                              |
| * ResponseRequiredDate  | String                 | 0..1        | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                                                                          |
| * RichMailText*         | Boolean                | 1           | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, ie Set to plain text                                                                 |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1           | The number of attachments expected in this correspondence. This value is verified against the total number of "parts" included in the request. A value of '0' if the correspondence contains no attachments. |
| * ToUserId*             | String                 | 1..n        | UserId(s) of TO recipients                                                                                                                                                                                   |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Attaching other items to mail

This is achieved by creating additional parts to the request, using the part boundary defined in the request header.

### Using part boundaries

Boundaries are marked using

```
--<boundaryName>
```

The exception to this is the final boundary in the POST content, which terminates with

```
--<boundaryName>--
```

Refer to the sample request(s) below for further detail.

### Attaching registered documents

Registered documents may be attached **only** to mail items that are of type "Transmittal" or "Tender Transmittal".

The maximum number of registered documents that may be attached is determined by a configurable limit (default value is 500).

Local files may be attached to mail items that are **not** of type "Transmittal" or "Tender Transmittal".

There is no limit to the number of local files that may be attached.

Mail metadata refers to attachment items via AttachmentId's. These identifiers may be re-used **only** when forwarding a mail item (does not apply to Reply Mail).

| Parameters     | Type (maxlength) | Cardinality | Notes                                                                   |
|----------------|------------------|-------------|-------------------------------------------------------------------------|
| X-Filename     | String(255)      | 0..n        | Arbitrary filename used to identify the local file attachment           |
|                |                  |             | base-64 encoded binary contents of the file                             |
| X-DocumentId   | String           | 0..n        | Id of the registered document to attach                                 |
| X-AttachmentId | String           | 0..n        | Id of attachment (based on the metadata of the original mail) to attach |

## Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/1879049444/forward
```

[HTTP Header]  
Content-Type=multipart/mixed; boundary="myboundary"

[HTTP Post content]  
--myboundary

<Mail>  
<Attribute1>Administration</Attribute1>  
<Attribute1>Podium</Attribute1>  
<Attribute2>WP3.01 - Cladding</Attribute2>  
<Attribute3>A valid value of Attribute 3</Attribute3>  
<Attribute4>Archive - Australia</Attribute4>  
<Attribute4>Archive - Middle East</Attribute4>  
<BccUserId>1879049123</BccUserId>  
<BccUserId>1879049126</BccUserId>  
<CcUserId>1879049184</CcUserId>  
<CcUserId>1879049256</CcUserId>  
<MailBody>  
&lt;DIV&gt;&lt;/DIV&gt;  
&lt;DIV&gt;&lt;BR&gt;An email with a pre-defined signature.&lt;BR&gt;&lt;BR&gt;&lt;SPAN class=aconexsm1&gt;&lt;  
SPAN style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN  
style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;Vince Costanza&lt;?xml:namespace  
prefix = o ns = "urn:schemas-microsoft-com:office:office" /&gt;&lt;o:p&gt;&lt;/o:p&gt;&lt;/STRONG&gt;&lt;  
/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN  
style="FONT-SIZE: 10pt; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;&lt;FONT color=#000000&gt;E&lt;/FONT&gt;&lt;SPAN  
style="COLOR: #ff6600"&gt;X&lt;/SPAN&gt;&lt;FONT color=#000000&gt;CITE ELECTRICAL&lt;o:p&gt;&lt;/o:p&gt;&lt;  
/FONT&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN  
style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;tel: &lt;SPAN style="mso-spacerun: yes"&gt;&amp;  
nbsp&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"  
&gt;&lt;+61 5 24644415&lt;o:p&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN  
style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;fax:&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;SPAN style="  
FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;&lt;+61 5 24644416&lt;o:p&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;  
/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN  
style="FONT-SIZE: 10pt; COLOR: #fff050; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;&lt;o:p&gt;&amp;

<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"><SPAN class=aconexsm1><SPAN style="FONT-SIZE: 7.5pt; COLOR: gray; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma; mso-bidi-font-size: 8.0pt">This email and any attachments are intended solely for the addressee. The contents may be privileged, confidential and/or subject to copyright or other applicable law. No confidentiality or privilege is lost by an erroneous transmission. If you have received this e-mail in error, please let us know by reply e-mail and delete or destroy this mail and all copies. If you are not the intended recipient of this message you must not disseminate, copy or take any action in reliance on it. The sender takes no responsibility for the effect of this message upon the recipient's computer system.</SPAN></SPAN></P>  
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></SPAN></SPAN></P>  
<DIV align=left>  
<HR>  
<FONT face=Tahoma size=1><B>From:</B> Patrick O'Leary <BR><B>Sent:</B> 17/11/2009 1:50:49 PM EST (GMT +11:00)<BR><B>To:</B> Vince Costanza <B>:</B> Charlie Putrino <B>Mail Number:</B> TRANSMIT-000184 <B>Subject:</B>  
Attachments for comments required </FONT><BR><BR><BR></DIV>Some attachments to comment on.<BR><BR>Bring some.  
</MailBody>  
<MailSubject>Test Create Mail 0015</MailSubject>  
<MailTypeId>1879048200</MailTypeId>  
<ReasonForIssue>4</ReasonForIssue>  
<ResponseRequired>3</ResponseRequired>  
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>  
<RichMailText>>true</RichMailText>  
<TotalAttachmentCount>5</TotalAttachmentCount>  
<ToUserId>1879049087</ToUserId>  
<ToUserId>1879049309</ToUserId>  
</Mail>  
--myboundary  
X-DocmentId: 1879099024  
  
--myboundary  
X-DocmentId: 1879099380  
  
--myboundary  
X-MailId: 1879048223  
  
--myboundary  
X-AttachmentId: 1879053216  
  
--myboundary  
X-Filename: localFile01.pdf

%PDF-1.2  
%âĀĬŲ

1 0 obj  
<<  
/Type /Catalog  
/Pages 3 0 R  
/Outlines 2 0 R  
>>  
endobj  
2 0 obj  
<<  
/Type /Outlines  
/Count 0  
>>  
endobj  
3 0 obj  
<<  
/Type /Pages  
/Count 1  
/Kids [6 0 R ]  
>>  
endobj  
4 0 obj  
[/PDF /ImageC ]  
endobj  
5 0 obj

```
<<
/Producer (ViewCompanion)
/CreationDate (Monday, 22 May 2006 12:40:35 AM)
>>
endobj
7 0 obj
<</Length 8 0 R
/Filter [/FlateDecode]

>>
stream
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äç¿pā`ýç>í?¶ÜÄè©Èhùtø?qÜ|L?ðèßó6İ?ŽÝhó1ýXi@æv×½•}èGûÑ@ø£Ö°s}GZ©ÝpªÓJ÷u/H´j»¶Öª$JmÜüçp™N-ðüc6Áæİ
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yªÖ¶<¿8µ†İ?ðVpyú@™ÇòteqdóÉ×$
-#w3ĒeÝŽ!¥!çðā,
iµ/O<7"è:ýX%æ×FVú9Wum¶²...6Km;Ē ©ĀJ3ŽF£M$#•] h@*mÜR ...6ý,`ĪÆr*Ū>:ùç6]θ-GÄ¿ViàI{ }þ=m¿-İg;ıÜkh³OI{"z0=ı¼-
«ÖŽ1êêıó3&-0,0³ýĒ°- kü€{úq÷ı¿İkùÁ$>M{G:³Q!Y'X;ððç{&KýÓ'Øµ ð†ðÓ"±@Ēü©z{ªáóG"è>u8&4ÐLÇ@:ÚtĀ^-÷Ž}#Àg²;-
HO>1ræèÊJ{f«é(µ9ÖÑófWZÜ3ää^àçlµmŽt´e³9Ik>SG/uZmlÑŪ@´ânGj³!hít9w>I¥6 ı±Žy/µ=ß~_m{,{©Í'Ž¶æ¶%,İjkhÜ|Ü~©µ9ÖÓfd
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ş;öæ†Ziia~-yð%fHmèD-:´ð|θıVxıh18Dm:8$-
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endobj
8 0 obj
419504
endobj
6 0 obj
<<
/Type /Page
/Parent 3 0 R
/Resources <<
/ProcSet 4 0 R
>>
/MediaBox [ 0 0 2306 1610 ]
/CropBox [ 0 0 2306 1610 ]
/Contents 7 0 R
>>
endobj
xref
0 9
0000000000 65535 f
00000000021 00000 n
00000000093 00000 n
00000000145 00000 n
00000000211 00000 n
00000000245 00000 n
0000419956 00000 n
00000000346 00000 n
0000419931 00000 n
trailer
<<
/Size 9
/Root 1 0 R
/Info 5 0 R
>>
startxref
420118
%%EOF

--myboundary
X-Filename: localFile02.xls

l=XıòÄ`èáüP1»MhŸ9£Mà-İV@dDAı×aV×B™[Ý^fJĀ-P|8`Ö,,AÜV^...ó¹f
İH ın÷bÜ-Æé"áéd>ðzİÜ`næ"Ç$¹ €Ø©ð'>äbµ- -&üÜİâª2»Æv¹÷þĀKyİ½ªóðÖD:²ªææ,Agm`Ö\nzÈÇiÜĀ™ă%.uİ†YC%6ıOMf"ă3o¶rAÜ$`Ā5...
µÜæĀNH...T[XF64İT,Ñæ-üĒMøèE)`#ý5ªXYf`øªª
```

--myboundary--

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element        | Type (maxlength) | Cardinality | Notes                                                                                                                                                               |
|----------------|------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SendMailResult | Group            | 1           |                                                                                                                                                                     |
| sendStatus     | Attribute String | 1           | Describes the status of the mail transmission. One of <ul style="list-style-type: none"><li>MailSent</li><li>MailWaitingForApproval</li><li>NotAuthorised</li></ul> |
| * NewMailId    | String           | 0..1        | The mailId of the new mail, if it was successfully created.                                                                                                         |

## Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">
  <NewMailId>1879053577</NewMailId>
</SendMailResult>
```

## Error Codes Specific to the Service

| Status Code              | Description                                                                                                                                             | HTTP Status Code |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| BAD_BASE64_DATA          | The base64 data for the file <filename> was found to be invalid...                                                                                      | 400 Bad Request  |
| NO_RECIPIENTS            | No recipients to send mail to specified                                                                                                                 | 400 Bad Request  |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                     | 400 Bad Request  |
| INVALID_RECIPIENTS       | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                           | 400 Bad Request  |
| INVALID_FIELD_VALUE      | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                        | 400 Bad Request  |
| INVALID_ATTACHMENT_COUNT | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments | 400 Bad Request  |
| UNEXPECTED_FIELD_VALUE   | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                         | 400 Bad Request  |

## Prerequisites

### Required Permissions

- The authorizing user (specified in the request header) must have been granted the secured asset to create mail.
- The authorizing user (specified in the request header) must have access to the items that he/she wishes to attach to the forward.

### Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of active fields, prior to constructing a request.

## Constraints

### Project state

The request will fail if the specified project is in any of the following states:

- De-activated

- Disconnected

#### Other

- The request will also fail if the authorizing user does not have access to the specified project, or is not permitted to view the original mail they are trying to forward.
- Can only attach registered documents and/or mail items that exist in the **same** project that the original mail belongs to, and the authorizing user must have access to them.
- The MailTypeId cannot change when forwarding a transmittal type - changing the value in the forwarded message should result in an error.
- When forwarding anything with a due date that's in the past, the forwarded mail must change the due date to no longer be in the past.
- All other fields can change value (Recipient list, attributes, subject, body) - the field can be omitted entirely as long as it is not a mandatory field.

Users are only allowed to create mails of the types that they are permitted to create, and no others. While numerous mail types may be configured for use on the project only a subset may be available to an individual user. There is currently no way of obtaining the list of usable mail types for individual users through the APIs. An error will be generated (INVALID\_FIELD\_VALUE) if the specified mail type is unavailable to the authorizing user.

#### Related APIs

- List Projects for User
- View Mail Schema
- Create Mail
- Reply Mail

## Register Mail

### Register Mail

The service registers a new mail item on behalf of another user, in the specified project.

#### URL structure

```
HTTP POST: https://{hostname}/api/projects/{projectid}/mail/register
```

#### Parameters

| Parameters | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
|------------|------------------|-------------|-------|

#### Interface

##### HTTP Request Header variables

As the request body has content that is multipart/mixed, a boundary identifier must be specified in the request header (as a key/value pair). This boundary is used to separate data of different types, e.g. text and binary.

##### Sample Header

Content-Type=multipart/mixed; boundary="myboundary"

##### Request Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional.

The number of \*'s indicate the parent-child depth.

| Field name      | Type (maxlength) | Cardinality | Notes                                                                                                                                                                             |
|-----------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mail            | Group            | 1           |                                                                                                                                                                                   |
| * AttachedDocId | String           | 0..n        |                                                                                                                                                                                   |
| * Attribute1+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute2+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute3+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * Attribute4+   | String(200)      | 0..n        |                                                                                                                                                                                   |
| * BccUserId     | String           | 0..n        | UserId(s) of BCC recipient. Can only be users within the same organization as the authorizing user.                                                                               |
| * CcUserId      | String           | 0..n        | UserId(s) of CC recipient. Can only be users within the same organization as the authorizing user.                                                                                |
| * Confidential  | Boolean          | 0..1        | If enabled, only the recipients (TO, CC, BCC) can search for and view this correspondence. The exception is when a user has the secured asset to search for ANY confidential mail |
| * FromUserId*   | String           | 1           | UserId of the user that this mail is registered on behalf of. As the cardinality suggests, only a single From User may be specified                                               |

|                         |                        |      |                                                                                                                                                              |
|-------------------------|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * MailBody              | String(2GB)            | 0..1 | If body contains HTML or special characters, the content must be escaped or enclosed in a CDATA tag: For e.g. <![CDATA[<h1>Test Header </h1><b>test mail ]]> |
| * MailSubject*          | String(250)            | 1    |                                                                                                                                                              |
| * MailTypeId*           | Integer(32-bit signed) | 1    |                                                                                                                                                              |
| * ReasonForIssue+       | Integer(32-bit signed) | 0..1 |                                                                                                                                                              |
| * ResponseRequired+     | Integer(32-bit signed) | 0..1 |                                                                                                                                                              |
| * ResponseRequiredDate  | String                 | 0..1 | Required if "ResponseRequired" is present in the request<br>UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'                                                          |
| * RichMailText*         | Boolean                | 1    | Set to "true" if the user wishes to render the Mail Body with rich text (HTML tags)<br>Set to "false" for no rendering, i.e. plain text                      |
| * TotalAttachmentCount* | Integer(32-bit signed) | 1    | Value of '0' if no the correspondence contains no attachments                                                                                                |
| * ToUserId*             | String                 | 1..n | UserId(s) of TO recipient. Can only be users within the same organization as the authorizing user.                                                           |

\* Denotes a mandatory field, **regardless** of project configuration.

+ May be a mandatory field, **depending** on project configuration. Confirm by checking the mail schema for the project.

### Using part boundaries

Boundaries are marked using

```
--<boundaryName>
```

The exception to this is the final boundary in the POST content, which terminates with

```
--<boundaryName>--
```

Refer to the sample request(s) below for further detail.

### Attaching registered documents

Registered documents may be attached **only** to mail items that are of type "Transmittal" or "Tender Transmittal".

The additional part(s) consist of the DocumentId of the registered document that you wish to attach, followed by an empty line.

The maximum number of registered documents that may be attached is determined by a configurable limit (default value is 500).

### Attaching local files

Local files may be attached to mail items that are **not** of type "Transmittal" or "Tender Transmittal".

The additional part(s) consist of a filename for the file, followed by an empty line, then the (binary) file contents, encoded in base-64. There must also be an empty line between the end of the binary contents and the next boundary.

There is no limit to the number of local files that may be attached.

| Parameters   | Type (maxlength) | Cardinality | Notes                                                         |
|--------------|------------------|-------------|---------------------------------------------------------------|
| X-Filename   | String(255)      | 0..n        | Arbitrary filename used to identify the local file attachment |
|              |                  |             | base-64 encoded binary contents of the file                   |
| X-DocumentId | String           | 0..n        | Id of the registered document to attach                       |

Refer to the sample request(s) below for further detail.

### Sample request

```
https://au1.aconex.com/api/projects/1879048422/mail/
```

```
[HTTP Header]
Content-Type=multipart/mixed; boundary="myboundary"
```

```
[HTTP Post content]
--myboundary
```

<Mail>  
<Attribute1>Administration</Attribute1>  
<Attribute1>Podium</Attribute1>  
<Attribute2>WP3.01 - Cladding</Attribute2>  
<Attribute3>A valid value of Attribute 3</Attribute3>  
<Attribute4>Archive - Australia</Attribute4>  
<Attribute4>Archive - Middle East</Attribute4>  
<FromUserId>1879049257</FromUserId>  
<CcUserId>1879049184</CcUserId>  
<CcUserId>1879049256</CcUserId>  
<MailBody>  
&lt;/DIV&gt;&lt;/DIV&gt;  
&lt;/DIV&gt;&lt;BR&gt;An email with a pre-defined signature.&lt;BR&gt;&lt;BR&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;Vince Costanza&lt;?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" /&gt;&lt;o:p&gt;&lt;/o:p&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; FONT-FAMILY: Tahoma"&gt;&lt;STRONG&gt;&lt;FONT color=#000000&gt;E&lt;/FONT&gt;&lt;SPAN style="COLOR: #ff6600"&gt;X&lt;/SPAN&gt;&lt;FONT color=#000000&gt;CITE ELECTRICAL&lt;o:p&gt;&lt;/o:p&gt;&lt;/FONT&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;tel: &lt;SPAN style="mso-spacerun: yes"&gt;&gt;&lt;STRONG&gt;Vince Costanza&lt;?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" /&gt;&lt;o:p&gt;&lt;/o:p&gt;&lt;/STRONG&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt;fax:&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;SPAN style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma"&gt; +61 5 24644416&lt;o:p&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 10pt; COLOR: #ff5050; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma"&gt;&lt;o:p&gt;&lt;/o:p&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;SPAN class=aconexsm1&gt;&lt;SPAN style="FONT-SIZE: 7.5pt; COLOR: gray; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma; mso-bidi-font-size: 8.0pt"&gt;This email and any attachments are intended solely for the addressee. The contents may be privileged, confidential and/or subject to copyright or other applicable law. No confidentiality or privilege is lost by an erroneous transmission. If you have received this e-mail in error, please let us know by reply e-mail and delete or destroy this mail and all copies. If you are not the intended recipient of this message you must not disseminate, copy or take any action in reliance on it. The sender takes no responsibility for the effect of this message upon the recipient's computer system.&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"&gt;&lt;/SPAN&gt;&lt;/SPAN&gt;&lt;/P&gt;  
&lt;BR&gt;&lt;BR&gt;&lt;BR&gt;&lt;/DIV&gt;  
&lt;DIV align=left&gt;  
&lt;HR&gt;  
&lt;FONT face=Tahoma size=1&gt;&lt;B&gt;From:&lt;/B&gt; Patrick O'Leary &lt;BR&gt;&lt;B&gt;Sent:&lt;/B&gt; 17/11 /2009 1:50:49 PM EST (GMT +11:00)&lt;BR&gt;&lt;B&gt;To:&lt;/B&gt; Vince Costanza &lt;B&gt;:&lt;/B&gt; Charlie Putrino &lt;BR&gt;&lt;B&gt;Mail Number:&lt;/B&gt; TRANSMIT-000184 &lt;BR&gt;&lt;B&gt;Subject:&lt;/B&gt; Attachments for comments required &lt;/FONT&gt;&lt;BR&gt;&lt;BR&gt;&lt;BR&gt;&lt;/DIV&gt;Some attachments to comment on.&lt;BR&gt;&lt;BR&gt;Bring some.  
</MailBody>  
<MailSubject>Test Create Mail 0015</MailSubject>  
<MailTypeId>1879048200</MailTypeId>  
<ReasonForIssue>4</ReasonForIssue>  
<ResponseRequired>3</ResponseRequired>  
<ResponseRequiredDate>2010-02-19T12:00:00.000Z</ResponseRequiredDate>  
<RichMailText>true</RichMailText>  
<TotalAttachmentCount>4</TotalAttachmentCount>  
<ToUserId>1879049087</ToUserId>  
<ToUserId>1879049309</ToUserId>  
</Mail>  
--myboundary  
X-DocumentId: 1879099024  
  
--myboundary  
X-DocumentId: 1879099380  
  
--myboundary  
X-MailId: 1879048223

```
--myboundary
X-Filename: localFile01.pdf

%PDF-1.2
%âãÏÓ

1 0 obj
<<
/Type /Catalog
/Pages 3 0 R
/Outlines 2 0 R
>>
endobj
2 0 obj
<<
/Type /Outlines
/Count 0
>>
endobj
3 0 obj
<<
/Type /Pages
/Count 1
/Kids [6 0 R ]
>>
endobj
4 0 obj
[/PDF /ImageC ]
endobj
5 0 obj
<<
/Producer (ViewCompanion)
/CreationDate (Monday, 22 May 2006 12:40:35 AM)
>>
endobj
7 0 obj
<</Length 8 0 R
/Filter [/FlateDecode]

>>
stream
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bõŷûŷø÷ôiYÉŷ¿ŷYAùÇt-Vø\Žòoiy%iĒōī!çē
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endobj
8 0 obj
419504
endobj
6 0 obj
<<
/Type /Page
/Parent 3 0 R
/Resources <<
/ProcSet 4 0 R
>>
/MediaBox [ 0 0 2306 1610 ]
/CropBox [ 0 0 2306 1610 ]
/Contents 7 0 R
>>
```

```

>>
endobj
xref
0 9
0000000000 65535 f
0000000021 00000 n
0000000093 00000 n
0000000145 00000 n
0000000211 00000 n
0000000245 00000 n
0000419956 00000 n
0000000346 00000 n
0000419931 00000 n
trailer
<<
/Size 9
/Root 1 0 R
/Info 5 0 R
>>
startxref
420118
%%EOF

--myboundary
X-Filename: localFile02.xls

l=Xi0Ä`éáü\p1»Mhÿ9EMà~ìV@dDAí×aV×B™[Ý^fJÃ-P|8`Ö„AÜV^...ó¹f
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--myboundary--

```

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element        | Type (maxlength) | Cardinality | Notes                                                                                                                                                                    |
|----------------|------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SendMailResult | Group            | 1           |                                                                                                                                                                          |
| sendStatus     | Attribute String | 1           | Describes the status of the mail transmission. One of: <ul style="list-style-type: none"> <li>MailSent</li> <li>MailWaitingForApproval</li> <li>NotAuthorised</li> </ul> |
| * NewMailId    | String           | 0..1        | The mailId of the new mail, if it was successfully created.                                                                                                              |

## Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
<SendMailResult sendStatus="MailSent">
<NewMailId>1879053577</NewMailId>
</SendMailResult>

```

## Error Codes Specific to the Service

| Status Code     | Description                                                        | HTTP Status Code |
|-----------------|--------------------------------------------------------------------|------------------|
| BAD_BASE64_DATA | The base64 data for the file <filename> was found to be invalid... | 400 Bad Request  |

|                                   |                                                                                                                                                         |                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| MISSING_FROM_USER                 | From user must be specified                                                                                                                             | 400 Bad Request |
| MULTIPLE_FROM_USERS_SPECIFIED     | Multiple from users specified                                                                                                                           | 400 Bad Request |
| INVALID_FROM_USER                 | The from user specified is invalid                                                                                                                      | 400 Bad Request |
| NO_RECIPIENTS                     | No recipients to send mail to specified                                                                                                                 | 400 Bad Request |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : A zero or null valued recipient id was given.                                                     | 400 Bad Request |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : User(s) [UserId] not visible on project                                                           | 400 Bad Request |
| INVALID_RECIPIENTS                | One or more of the specified recipients are invalid : Cannot send to recipients that are not in the same organization                                   | 400 Bad Request |
| INVALID_RECIPIENT_TYPE            | BCC recipient type cannot be specified                                                                                                                  | 400 Bad Request |
| INVALID_FUTURE_DATE               | The date [InvalidDate] for the field [FieldName] must be in the future                                                                                  | 400 Bad Request |
| INVALID_FIELD_VALUE               | Provided value [InvalidValue] is not valid for field <Fieldname>                                                                                        | 400 Bad Request |
| UNEXPECTED_FIELD_VALUE            | User provided unnecessary property value. ReasonForIssue is only valid for specific mail types.                                                         | 400 Bad Request |
| MULTIPLE_ATTACHMENT_HEADERS_FOUND | Multiple headers received for multipart attachment. Only a single header is expected                                                                    | 400 Bad Request |
| INVALID_ATTACHMENT_COUNT          | Invalid number of attachments. Expected <N> total number of attachments but found <X> CDoc & <Y> existing file attachments & <Z> local file attachments | 400 Bad Request |
| CANNOT_ATTACH_LOCAL_FILES         | Cannot attach local files for mail type which is a transmittal                                                                                          | 400 Bad Request |

## Prerequisites

### Required Permissions

The authorizing user (specified in the request header) must have been granted the secured asset to create mail.

### Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of active fields, prior to constructing a request.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user does not have access to the specified project.

Can only attach registered documents that the user has access to.

Users are only allowed to create mails of the types that they are permitted to create, and no others. While numerous mail types may be configured for use on the project only a subset may be available to an individual user. There is currently no way of obtaining the list of usable mail types for individual users through the APIs. An error will be generated (INVALID\_FIELD\_VALUE) if the specified mail type is unavailable to the authorizing user.

Depending on project configuration (Invitation mode), the From User and recipient(s) may be selected from the Project Directory only, or from the Global Directory.

### Constraints specific to Register Mail

BCC is not allowed in Register Mail.

Recipients (TO and CC) may only be members of the same organization that the **authorizing user** (NOT the From User) belongs to, and be full, active members of the specified project. For example, disabled and shadow users are not allowed.

## Related APIs

- List Projects for User
- View Mail Schema

# View Mail Thread

## View Mail Thread

This service returns a user-based view for a given mail thread.

### Notes:

- 1. Mail threads may spread across different organizations and/or could include mails which are confidential to certain users; these factors are considered in populating the mail thread view.
- 2. Thread Ids can be retrieved from the View Mail Metadata service response for a mail.

## URL structure

HTTP GET: https://{hostname}/api/projects/{projectid}/mail/{threadid}/thread

## Parameters

| Parameters | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
|------------|------------------|-------------|-------|

## Interface

### Request Fields

Not Applicable. HTTP GET operations have no request body.

### Sample request

https://au1.aconex.com/api/projects/1879048400/mail/1879052499/thread

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth. Important to note that the response for this service is a hierarchical recursive structure based around the Mail element. Mail elements will be nested within each other under the Replies tag.

| Element    | Type (maxlength) | Cardinality | Notes                                                                                                                                                                                                                                                                                      |
|------------|------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thread     | Group            | 1           | Thread may contain have any number of mails                                                                                                                                                                                                                                                |
| ThreadId   | Attribute String |             | The ID of the thread                                                                                                                                                                                                                                                                       |
| * Mail     | Group            | 1..n        | This element is recursive once it is past the Thread Group. If the Mail Id is the same as the Thread Id, that means the Mail Id is the first email of that thread                                                                                                                          |
| * MailId   | Attribute String |             | The ID of the Mail                                                                                                                                                                                                                                                                         |
| ** InRefTo | Empty            | 1           |                                                                                                                                                                                                                                                                                            |
| ** MailId  | Attribute String |             | The ID of the mail that <b>this</b> mail is "In Ref To"                                                                                                                                                                                                                                    |
| ** Replies | Group            | 0..1        | Replies can have any number of Mail elements.                                                                                                                                                                                                                                              |
| *** Mail   | Group            | 0..n        | This represents a child of this mail, meaning it is either a response or forwarded mail based on its parent.                                                                                                                                                                               |
| *ReplyType | String(*)        | 1           | One of : <ul style="list-style-type: none"><li>• NEVER_RESPONDED (Represents a root mail or an individual mail - no forwards or replies exist for this mail)</li><li>• REPLY (represents a reply to the parent mail)</li><li>• FORWARD (represents a forward of the parent mail)</li></ul> |

### Sample response 1

(General response where user have access to root mail, forwarded mails and a reply.)

```

<Thread ThreadId = "2487">
  <Mail MailId = "2487">
    <InRefTo MailId = "2487"/>
    <Replies>
      <Mail MailId = "2488">
        <InRefTo MailId = "2487"/>
        <Replies>
          <Mail MailId = "2492">
            <InRefTo MailId = "2487"/>
            <ReplyType>REPLY</ReplyType>
          </Mail>
          <Mail MailId = "2490">
            <InRefTo MailId = "2487"/>
            <ReplyType>FORWARD</ReplyType>
          </Mail>
        </Replies>
        <ReplyType>FORWARD</ReplyType>
      </Mail>
      <Mail MailId = "2491">
        <InRefTo MailId = "2487"/>
        <ReplyType>FORWARD</ReplyType>
      </Mail>
    </Replies>
    <ReplyType>NEVER_RESPONDED</ReplyType>
  </Mail>
</Thread>

```

## Sample response 2

(View to the same thread from different organization which does not have access to the root mail.  
The two forwarded mails becomes top level mails.)

```

<Thread ThreadId = "2487">
  <Mail MailId = "2488">
    <InRefTo MailId = "2487"/>
    <Replies>
      <Mail MailId = "2492">
        <InRefTo MailId = "2487"/>
        <ReplyType>REPLY</ReplyType>
      </Mail>
      <Mail MailId = "2489">
        <InRefTo MailId = "2487"/>
        <Replies>
          <Mail MailId = "2490">
            <InRefTo MailId = "2487"/>
            <ReplyType>FORWARD</ReplyType>
          </Mail>
        </Replies>
        <ReplyType>FORWARD</ReplyType>
      </Mail>
    </Replies>
    <ReplyType>FORWARD</ReplyType>
  </Mail>
  <Mail MailId = "2491">
    <InRefTo MailId = "2487"/>
    <ReplyType>FORWARD</ReplyType>
  </Mail>
</Thread>

```

## Error Codes Specific to the Service

| Status Code      | Description                                                     | HTTP Status Code |
|------------------|-----------------------------------------------------------------|------------------|
| ENTITY_NOT_FOUND | The thread id specified does not correspond to an actual thread | 400              |

|                              |                                                                        |     |
|------------------------------|------------------------------------------------------------------------|-----|
| ENTITY_NOT_VISIBLE           | The thread trying to be viewed is not visible to the requesting user   | 401 |
| ENTITY_NOT_FOUND_FOR_PROJECT | The thread trying to be viewed does not exist on the specified project | 400 |

## Prerequisites

### Required Permissions

There are no required permissions to use this service.

### Preferences/Module Setup

Not Applicable.

## Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user has no access to the specified project.

The service will not return information of mail items that is marked as "Confidential", if the authorizing user is **not** a recipient (or the sender for sent mails) or does not have the secured asset to view all organization mails.

## Related APIs

- View Mail Metadata

## View Fax Log

### View Fax Log

This service retrieves the fax log for mail which were sent out as a fax.

**Note:** If there are no fax logs for a mail, search result size is 0 and no logs are returned.

### URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/mail/{mailid}/faxlog
```

### Parameters

| Parameters | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
|------------|------------------|-------------|-------|

### Interface

#### Request Fields

Not Applicable. HTTP GET operations have no request body.

#### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/1879099264/faxlog
```

### Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*\*s indicate the parent-child depth.

| Element    | Type (maxlength) | Cardinality | Notes |
|------------|------------------|-------------|-------|
| ViewFaxLog | Group            | 1           |       |

|                  |                   |      |                                                                                                                                         |
|------------------|-------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TotalResults     | Attribute Integer | 1    | The number of fax logs found for the specified mail                                                                                     |
| * SearchResults  | Group             | 1    |                                                                                                                                         |
| ** FaxLog        | Group             | 0..n |                                                                                                                                         |
| *** Confirmation | DateTime          | 1    | Date when fax was delivered (in UTC format)                                                                                             |
| *** FaxNumber    | String            | 1    | Fax number specified when sending the mail                                                                                              |
| *** FaxSentTo    | String(123)       | 1    | The user name and organization name of the recipient, e.g. Tom Cruise - High Rise Architecture                                          |
| *** Queued       | DateTime          | 1    | Date when fax was scheduled to be sent (in UTC format)                                                                                  |
| *** Status       | String            | 1    | Current fax delivery status. One of: <ul style="list-style-type: none"> <li>• Pending</li> <li>• Delivered</li> <li>• Failed</li> </ul> |

### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<ViewFaxLog TotalResults="1">
  <SearchResults>
    <FaxLog>
      <Confirmation/>
      <FaxNumber>+61 3 12345678</FaxNumber>
      <FaxSentTo>Tom Cruise-High Rise Architecture renamed</FaxSentTo>
      <Queued>2010-03-02T00:45:15.710Z</Queued>
      <Status>Pending</Status>
    </FaxLog>
  </SearchResults>
</ViewFaxLog>
```

### Error Codes Specific to the Service

| Status Code | Description | HTTP Status Code |
|-------------|-------------|------------------|
|-------------|-------------|------------------|

### Prerequisites

#### Required Permissions

The authorizing user (specified in the request header) must have access to the mail for which the fax log was requested.

#### Preferences/Module Setup

Not applicable.

### Constraints

The request will fail if the specified project is in any of the following states:

- De-activated
- Disconnected

The request will also fail if the authorizing user does not have access to the specified project or mail.

### Related APIs

- View Mail Metadata

## Mail Last Updated

### Mail Last Updated

Return mail items including associated mail last modified time-stamp for a project.

**Note:** If optional parameter 'everythingsince' (representing everything since a time stamp) is provided, the service returns all mail ids and associated last updated dates from the hour of the given time stamp in the request.

## URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/mail/integrity?queryparams
```

## Parameters

| Parameters      | Type(maxlength)                        | Notes                                                                                                                                                                                                               |
|-----------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| username        | String(61)                             | Mandatory.                                                                                                                                                                                                          |
| password        |                                        | Mandatory.                                                                                                                                                                                                          |
| everythingsince | String representation of UTC dateTime. | Optional. If not provided, full list of ids are returned.<br><b>Note:</b> Only supports hour granularity. Non zero minutes, seconds and milliseconds values in the request will cause an InvalidParameterException. |
| mail_box        | String                                 | Mandatory. One of: <ul style="list-style-type: none"><li>• INBOX</li><li>• SENTBOX</li><li>• DRAFTBOX</li></ul>                                                                                                     |

## Examples/Samples

### Sample request

```
https://au1.aconex.com/api/projects/1879048400/mail/integrity?everythingsince=2001-10-26T19:00:00.000Z&mail_box=INBOX
```

### Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<IntegrityCheckResults>
  <Mail id="3707" lastModifiedDate="2007-10-11T03:53:10.313Z" />
</IntegrityCheckResults>
```

## Response Fields

Cardinality refers to the number of repetitions a field can have. A cardinality that allows zero (0) means the field is optional, and may not appear in the response.

The number of \*'s indicate the parent-child depth.

| Element               | Type (maxlength) | Cardinality | Notes                                      |
|-----------------------|------------------|-------------|--------------------------------------------|
| Mail                  |                  | 0..n        |                                            |
| id                    | String           | 1           | Mail identifier assigned by the system     |
| lastModifiedDate      | xsd:dateTime     | 1           | Last update time for mail id in UTC format |
| IntegrityCheckResults |                  | 1           | XML Root Element                           |

## Error Codes Specific to the Service

| Status Code | Description | HTTP Status Code |
|-------------|-------------|------------------|
|-------------|-------------|------------------|

## Prerequisites

### Required Permissions

The authorizing user (specified in the request header) must have permission to search organization mail, To view all mail for an organization. If this is not the case, only users specific mail will be returned.

### Preferences/Module Setup

Not applicable.

## Constraints

The request will fail if:

The specified Project or Organization is in any of the following states:

- De-activated
- Disconnected

The authorizing user does not have access to the specified project.

## Related APIs

- Documents Last Updated