



Mail API Developer Guide

Aconex Mail Services

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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.

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>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 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) 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"> boolean: true, false number: 123, 145.3, -45 etc date: yyyy-mm-dd e.g. 2014-02-23 singleLineText: single line of text multiLineText: text separated by newline characters singleSelect: option text multiSelect: option text user: user id. if one field has multiple values, they should be in separate elements
** 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"> boolean: true, false number: 123, 145.3, -45 etc date: yyyy-mm-dd e.g. 2014-02-23 singleLineText: single line of text multiLineText: text separated by newline characters singleSelect: option text multiSelect: option text user: user id. if one field has multiple values, they should be in separate elements
** 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://aul.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>
  <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
%ããíó

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

xæi½»@eÉ®,æ`ýÃþ,Âx?Ùá@6...ë]@ePÓ' fBx`2, fZU|Ö8,,ãTweEæîA2B\$sp+ýù~ýý¿þè?|Ó4ý[ýùßþ-7ðýú?
þðýúþø+ðíýÉý¿ýYáùçt-vø\Žùðíy¼íÉðí!çe
âç¿þã`ýç>í?¶ÛÀè@Èhùtø?qÚ|L?ðèßó6í?ŽÝhó1ýxí@æv×½•}èGûÑøøç°s}GZ@ÝþªÓJ+u/H`j»¶ðø\$JmÛcþ™N-ðùc6Áæí
[çýþ±ßŽÀšİçSi@+ýã°
H~±Iãšþ"ú9Ôã•-È,,«µè@|Ý|èhø-qš-)èÈ- R?@CNÖ¶-;~üøqo6¶^ó-GýÛfe»~-¶@æG¾~myz...FðD-ùç:'J»~æG¾)´ÔmShD
m[[;)`ýé-W;m@fák%¹Q~B{oWÖ-ð~ã6w?°\ÈÍ~tß-MÖ,+3"óó´Úfì
yªÔ¶<¿µþí?ðVpyú@™çðteqdóÉ×\$
-#W3EeÝŽ!¥!çðã,
µ/O<7"è:ýX¼æ×FVú9Wum¶²...6Km;È @ÃJ3ŽFFMš#•} h@*mÜR ...6ý.-íÆr*Û>:Ûç6]0-GÀ¿ViàI{ }þ=mc~Ìg;íÛkh³OI{"zO=i¼-«òž1èèió3
&-O,0³ýÈ°- kù€{úq+í¿ÍkùÀ\$M{G:³Q!Y'X;ððc{&KÝÓ'Øµ Ò†ÓÓ"±@Èù@z{páóG"è>u8&4DLç@:ÚtÃ^~+ž}#Àg²;-
HO>1ræèêJ{f«é(µ9ÔÑðfWZÛ3ää^àclµmŽt´e³9Ik>sg/uZmlÑÛ@´ánGj³!hít9w>I¥6 í±žy/µ=ß~_m{,{@Í'Ž¶æ¶%,İjkhÛ|Û~@µ9ðófd
¥¶ùéBSO>Ý.3~ZŽðH)ÍrFW¹"...1¼yðãÈš"¶-5¤
UúfI;±Û!,á´k+ šSksw´PVÔ|È
Úfèó(µ=]æ-4)jSC
š;Öæ†Ziiã~yD¼fHmèD-:´ò|oiVxih18Dm8\$-
,Z>>í|ÖúÝŽt4ðø6æ•-f*k+fjþ|@ÖÛ|Ðæ°yñ™>æ<5ðø0fÈ}ÒÑÀÈ%#OFÍÚš'-æ<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-èäü\P1»Mhÿ9fMâ-ÌV@dDAí×aV×B™[ÿ^fJÃ-P§-Ö„AÛV^...ó¹f
ÏH ín÷PÛ-Æé"á€d>òzÏÛ`næ"ÇŠ¹ €Ø@ð'>äbµ- -&üÛîâç2»Æv¹÷PÄKyÏ¼αóöD:²αææ,AGm-Ö\nzÈÇiÛÄ"ã¼.uÏ†YC%6ìOMf"ã3o¶rÄÛ$"Ã5...
µûæÄNH...T[XF64ÏT,Ñæ-üËM0ëE)`#ÿ5αXYf`ø×α

--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

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
```

```
%ääiÖ
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
xæi½»@eÉ@,æ`ýÄb,Äx?Üá@6...ë]@ePÓ'fBx`2,fŽU|Ö8,ãTwEEæÏA2S$Sp+ýù`ý`ýý¿bè?|Ó4ý[ýüSp-7ôýú?
þðýùýø÷ðíýÉý¿ýYáùçt-vø\žùðìý¼íëðí!çe
äç¿bã`ýç>í?¶ÜÄë@ëhùtø?çú|L?ðëšó6í?ŽÝhó1ýXí@æv×½}èGùÑ@ø£ð°s}GZ@ÝF°ÓJ+u/H`j»¶Ö°$JmÜcF`MN~ðùc6ÄæÏ
[çýþ±šŽÄšÏçSÍ@÷ýã°
H~+IäšF"ú9Ôã•`È,,«µë@|Ý|èhø~çš-)èÈ- R?@CNÖ¶-;üøqo6¶^Ó-GýÜfe»~¶@æG¼~myz...F°Ð-ùç:'J»~æG¥)'ÖmShD
m[[]`ýé-W;m@fÁK%¹Q~B{oWÖ~ð~ã6w?°\ÈÍ~tš-MÖ,+3"ðó`Úfì
yªÖ¶<¿8µ†í?ðVpyú@™çðteqđóÈ×š
-#W3ÈeÝŽ!¥!çðã,
jµ/0<7"è:ýX¼æ×FVù9Wum¶²...6Km;È @ÄJ3ŽFfMš#•] h@*mÜR ...6ý,-ÍÆr*Û>:Ûç6]0-GÀ¿ViàI{ }F=m¿~Ïg;íÜkh³OI{"zO=í¼-«ðžlèèió3
&-0_0³ýÈ°- kù€{úq÷í¿ÍkùÄš>M{G:³Q!Y`X;ððc{&KýÓ`µi Ö†ÓÓ"±@Èù@z{váoG"è>u8&4DLç@:ÚtÄ^~+ž}#Äg²;-
HO>lræèêJ{f<é(µ9ÔÑöfWZÛ3ää^àclµmŽt´e³9Ik>šG/uZmlÑÛ@´ánGj³!hít9w>I¥6 í+žy/µ=š~_m{,{@Í'Ž¶Fæ¶%,İjkhÛ|Û~@µ9ðÓfd
¥¶ùéBSO>Ý.3~ZŽðH)ÍrFW¹"...í¼yðãÈš"¶-5α
UúfI;±Ü!,ª`k+ šSksw´PVð|È
Úfèó(µ=]æ-4)jSC
š;Öæ†Ziiã~yD¼fHmèD-:´ò|0iVxihl8Dm8š-
,Z>>í|ÖúýŽt4ó6E•-f*k+fjD|@ÖÚ|Ðæ°yñ™>æ<5ðoÔfÈ}ÖÑÄÈ%#OFÍÚŠ'-æ<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-èäü\P1»Mhÿ9fMâ-ÌV@dDAí×aV×B™[ÿ^fJÃ-P§-Ö„AÛV^...ó¹f
ÏH ín+PÛ-Æé"á€d>òzÏû`næ"ÇŠ¹ €Ø@ð'>äbµ- -&ûÛîâ²»Æv¹+PÄKyÏ¼αóöD:²αææ,AGm-Ö\NZÈÇiÛÄ™ã¼.uÏ†YC%6ìOMf"ã3o¶rÄÛ$`Ã5...
µûæÂNH...T[XF64ÏT,Ñæ-üËM0ëE)`#ÿ5αXYf`ø×α

--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 x-document , -abcdefg -. 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
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. Note: 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 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) 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"> boolean: true, false number: 123, 145.3, -45 etc date: yyyy-mm-dd e.g. 2014-02-23 singleLineText: single line of text multiLineText: text separated by newline characters singleSelect: option text multiSelect: option text
** 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"> boolean: true, false number: 123, 145.3, -45 etc date: yyyy-mm-dd e.g. 2014-02-23 singleLineText: single line of text multiLineText: text separated by newline characters singleSelect: option text multiSelect: option text
** 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_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>

```

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

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

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 uired+	Integer(32-bit signed)	0..1	
* ResponseReq uiredDate	String	0..1	Required if "ResponseRequired" is present in the request 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) Set to "false" for no rendering, ie Set to plain text
* TotalAttachme ntCount*	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.
* ToUserld*	String	0..n	Userld(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.
* MailFormFiel ds+	Group	0..1	Mail Form field values.
** MailFormFie ld+	String	0..n	Mail Form field value. Allowed values per type: <ul style="list-style-type: none"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text • multiSelect: option text
** identifier*	Attribute	1	Mail Form field identifier
* RestrictedField s+	Group	0..1	Restricted field values.
** RestrictedField+	String	0..n	Restricted field value. Allowed values per type: <ul style="list-style-type: none"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text • multiSelect: option text
** identifier*	Attribute	1	Restricted field identifier
ExistingMailld	String	0..1	existing Draft mailld 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://aul.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

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>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 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) 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"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text
** 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://aul.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"> • MANDATORY • NOT_MANDATORY • CONDITIONAL
***** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
*** 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"> • MailTypeId • ReasonForIssue • ResponseRequired • Attribute1 • Attribute2 • Attribute3 • Attribute4
*** 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"> • MANDATORY • NOT_MANDATORY • CONDITIONAL

***** 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">• STRING• BOOLEAN• RATIO• INTEGER• DOUBLE• LONG• DATE• COMPLEX
*** 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">• TotalAttachmentCount• MailSubject• MailBody• ToUserId• CcUserId• BccUserId• ResponseRequiredDate• Confidential• RichMailText
* 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 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">• STRING• BOOLEAN• RATIO• INTEGER• DOUBLE• LONG• DATE• COMPLEX
*** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
*** 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://aul.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">• STRING• BOOLEAN• RATIO• INTEGER• DOUBLE• LONG• DATE• COMPLEX
** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
** 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>toastatusid</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>responssedate</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>inrefmailto</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://a1.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"> MANDATORY NOT_MANDATORY CONDITIONAL
**** 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"> STRING BOOLEAN RATIO INTEGER DOUBLE LONG DATE COMPLEX
** 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"> MailTypeId ReasonForIssue ResponseRequired Attribute1 Attribute2 Attribute3 Attribute4
** 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"> MANDATORY NOT_MANDATORY CONDITIONAL
**** 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"> STRING BOOLEAN RATIO INTEGER DOUBLE LONG DATE COMPLEX
** 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"> TotalAttachmentCount MailSubject MailBody ToUserId CcUserId BccUserId ResponseRequiredDate Confidential RichMailText
* 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>
  </MultiValueSchemaField>
</ComposeMailSchema>
```

```

<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>

```

<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>Attributel</Identifier>
      <SchemaValues>
        <SchemaValue>
          <Value>North Tower Hotel</Value>
        </SchemaValue>
      </SchemaValues>
    </MultiValueSchemaField>
  </SchemaValues>
</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://aui.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"> • MANDATORY • NOT_MANDATORY • CONDITIONAL
**** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
** 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"> • MailTypeId • ReasonForIssue • ResponseRequired • Attribute1 • Attribute2 • Attribute3 • Attribute4
** 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"> • MANDATORY • NOT_MANDATORY • CONDITIONAL
***** 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">• STRING• BOOLEAN• RATIO• INTEGER• DOUBLE• LONG• DATE• COMPLEX
** 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">• TotalAttachmentCount• MailSubject• MailBody• ToUserId• CcUserId• BccUserId• ResponseRequiredDate• Confidential• RichMailText
* 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 "MailTypeld" field.
** id	Attribute	1	The id of this mail type. This value matches the id of "SchemaValue" of "MailTypeld" 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>
</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>
  </SchemaValues>
</MultiValueSchemaField>
```

```

        </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>
    </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>
    <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 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://aui.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">• MANDATORY• NOT_MANDATORY• CONDITIONAL
**** 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">• STRING• BOOLEAN• RATIO• INTEGER• DOUBLE• LONG• DATE• COMPLEX
** 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">• MailTypeld• ReasonForIssue• ResponseRequired• Attribute1• Attribute2• Attribute3• Attribute4
** 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 String	1	Determines if the field must be specified when creating a piece of project mail. One of: <ul style="list-style-type: none">• MANDATORY• NOT_MANDATORY• CONDITIONAL
**** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
** 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"> • TotalAttachmentCount • MailSubject • MailBody • ToUserId • CcUserId • BccUserId • ResponseRequiredDate • Confidential • RichMailText
* 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>
<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>
```

```

    </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>
  </SchemaValues>

```

```

        <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 "mailFormFieldsSchema".

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://aui.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">• BOOLEAN• SINGLE_LINE_TEXT• MULTI_LINE_TEXT• DATE• NUMBER• SINGLE_SELECT• MULTI_SELECT• USER
* 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 Unit Table): <ul style="list-style-type: none">• unitQuantity (for NUMBER type only, e.g. length)• unitName (for NUMBER type only, e.g. metre)• minLength (for SINGLE_LINE_TEXT type only, e.g. 10)• maxLength (e.g. 20)• options (for SINGLE_SELECT, MULTI_SELECT and USER types only)
*** 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>Dealine</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://aui.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">• BOOLEAN• SINGLE_LINE_TEXT• MULTI_LINE_TEXT• DATE• NUMBER• SINGLE_SELECT• MULTI_SELECT• USER
* 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 Unit Table): <ul style="list-style-type: none"> • unitQuantity (for NUMBER type only, e.g. length) • unitName (for NUMBER type only, e.g. metre) • minLength (for SINGLE_LINE_TEXT type only, e.g. 10) • maxLength (e.g. 20) • options (for SINGLE_SELECT, MULTI_SELECT and USER types only)
*** 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>Dealine</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 (maxlength)	Cardinality	Notes
mail_box	String	1	One of; <ul style="list-style-type: none"> • inbox • sentbox • draftbox
search_query	String(no limit)	0..1	Lucene search query. Field names available for searching: <ul style="list-style-type: none"> • attribute • secondaryattribute • thirdattribute • fourthattribute • closedoutdate • corrdata • corrtypeid • docno • fromtradingname • fromuserfullname • inreftomailno • reasonforissueid • respondedate • sentdate • subject • tostatusid • totradingname • touserfullname • noninitiatoroactionrequired Note: 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"> • attribute • closedoutdetails • confidential • corrtypeid • docno • fromUserDetails • inrefmailto • mailRecipients • reasonforissu • respondedate • secondaryattribute • sentdate • subject • tostatusid • totalAttachmentsSize • totalLocalAttachmentsSize • attachedDocumentCount • allAttachmentCount
search_type	String	0..1	<p>One of;</p> <ul style="list-style-type: none"> • NUMBER_LIMITED - return a maximum number of results. Please refer to search_result_size parameter which is mandatory for this search type. • FULL - return all matching results (DEPRECATED - recommend to use PAGED search_type instead) • COUNT_ONLY - return only 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"> ◦ return_fields ◦ search_result_size ◦ sort_field ◦ sort_direction • 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. <p>Note: 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 only if search_type is explicitly set to PAGED. If specified, the value must be a number that is divisible by 25. Without this parameter specified, this defaults to 25.</p> <p>Note: This parameter has a maximum value of 500</p>
page_number	Integer	0..1	<p>This parameter is available only if search_type is explicitly set to PAGED. If specified, the value must 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 1.</p>
search_result_size	Integer	0..1	<p>This parameter is available only if search_type is explicitly set to NUMBER_LIMITED. The value must be a number that is divisible by 25. Without this parameter specified, this defaults to 250.</p> <p>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 not 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"> • confidential • corrtypeid • docno • inrefmailto • reasonforissu • respondedate • sentdate • subject
sort_direction	String	0..1	<p>One of;</p> <ul style="list-style-type: none"> • ASC, ascending order • DESC, descending order <p>Note: Without this parameter specified, sort defaults to ASC.</p>

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

https://aui.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. Notes: 1. If a paged search is performed, this number represents all pages (including those not returned in the current page of results) 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. Note: Only applicable to a paged search.
TotalPages	Attribute Integer	0..1	The total number of pages available for the specified page_size. Note: Only applicable to a paged search.
PageSize	Attribute Integer	0..1	The page size for the search (will match specified page_size). Note: Only applicable to a paged search.
CurrentPage	Attribute Integer	0..1	The current page of results (will match specified page_number). Note: 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 "corrypeid"
*** 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	Specifies the status of the mail for this distribution which will be one of: <ul style="list-style-type: none"> • Outstanding • N/A • Responded • Overdue • Closed-Out • No Action Required Configured available values for Responded <ul style="list-style-type: none"> • Closed • Completed • Answered Configured available values for Closed-Out <ul style="list-style-type: none"> • Confirmed • Accepted • Agreed • Closed
**** DistributionType	String	1	One of; <ul style="list-style-type: none"> • TO • CC • BCC
**** 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" 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"> • Outstanding • N/A • Responded • Partial • Overdue • Closed-Out <p>Configured available values for Responded</p> <ul style="list-style-type: none"> • Closed • Completed • Answered <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> • Confirmed • Accepted • Agreed • Closed
*** 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>TO</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>TO</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

Status Code	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

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. The feature switch `allFilterMailSearchPostAPIFeatureSwitch` must be enabled at project level.
3. If the feature switch is disabled for the project, this API returns 404 Not Found.
4. 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
<code>effective_user</code>	String	0..1	Effective user for request execution (same behavior as other Mail APIs).
<code>chunkedResponse</code>	Boolean	0..1	Optional. If true, response may be returned chunked.

Interface

Request Fields (JSON body)

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

```

        <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

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

FEATURE_SWITCH_DISABLED	Feature switch allFilterMailSearchPostAPIFeatureSwitch is disabled for the target project.	404
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.

Preferences/Module Setup

allFilterMailSearchPostAPIFeatureSwitch (module: Mail) must be enabled for the project.

Constraints

- Request body is mandatory.
- Existing search validation rules for mailbox/search/sort/paging apply.
- Project-field return values are enabled in this POST path when the feature switch is enabled.

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"> • Don't Process • Error • Waiting Approval • Approved • Rejected
* Attachments	Group	1	This section lists attachments on this mail.
** RegisteredDocumentAttachment	Group	0..n	Registered documents may only 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. Notes: 1. attachmentId is not the same value as the documentId. Please refer to the <i>Download Mail Attachment</i> API service for further information. 2. When the transmittal attachment is confidential AND the user is not in the transmittal recipient list or documents access list, attachmentId is omitted.
*** Confidential	boolean	1	Confidentiality status of the attached registered document, as determined from the sender's point of view. Note: This status value is retained if the correspondence is forwarded, with attachments intact; i.e the status always reflects the current confidentiality of the original sender's document, even after the correspondence has been sent.
*** DocumentId	String	0..1	The id of the registered document attached to this sent mail. Note: 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. Note: 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 only be attached to mail items that are not 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 any mail type.
*** MailId	String	1	The id of the mail attached to this mail. Note: 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. Note: 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 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: <ul style="list-style-type: none"> • OUTSTANDING • N/A • RESPONDED • CLOSED-OUT
*** DistributionType	String	1	One of: <ul style="list-style-type: none"> • TO • CC • BCC
*** 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. Note: This will only appear if the IsRegistered value is true.
** RegisteredByUserId	String	0...1	The user id of the person who registered the mail. Note: 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"> • OUTSTANDING • N/A • RESPONDED • PARTIAL • CLOSED-OUT
* 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 mail form field values.
** MailFormField	Group	1..n	
*** DataType	String	1	The mail form field data type which will be one of: <ul style="list-style-type: none"> • BOOLEAN • SINGLE_LINE_TEXT • MULTI_LINE_TEXT • DATE • NUMBER • SINGLE_SELECT • MULTI_SELECT • USER
*** Identifier	String	1	Mail form field identifier.

*** Label	String	1	Localized mail form field label.
*** Value	String	1	Mail form field value (may be an empty element). Date value is in ISO 8601 format i.e. yyyy-MM-dd.
*** Specifications	Group	0..1	Contextual information for the mail form 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"> • unitQuantity (e.g. length) • unitName (e.g. metre)
* 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"> • BOOLEAN • SINGLE_LINE_TEXT • MULTI_LINE_TEXT • DATE • NUMBER • SINGLE_SELECT • MULTI_SELECT • USER
*** Identifier	String	1	Restricted field identifier.
*** Label	String	1	Localized restricted field label.
*** Value	String	1	Restricted field value (may be an empty element). 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"> • unitQuantity (e.g. length) • unitName (e.g. metre)
* 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"> • "replyMailSchema": schema used to reply to this mail • "forwardMailSchema": schema used to forward this mail 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>Dealine</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>
      <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://a1.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.

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://a1.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_ATTACHMEN T	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	
* AttachedDoclId	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>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 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) 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"> boolean: true, false number: 123, 145.3, -45 etc date: yyyy-mm-dd e.g. 2014-02-23 singleLineText: single line of text multiLineText: text separated by newline characters singleSelect: option text multiSelect: option text user: user id. if one field has multiple values, they should be in separate elements
** 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"> boolean: true, false number: 123, 145.3, -45 etc date: yyyy-mm-dd e.g. 2014-02-23 singleLineText: single line of text multiLineText: text separated by newline characters singleSelect: option text multiSelect: option text user: user id. if one field has multiple values, they should be in separate elements
** 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://a1.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
xœi½»@eÉ@,æ`ýÃp,Ãx?Üá@6...è]@€PÓ' fßx`2, fŽU]Ö8,,ãTwEEæiA2ß$sp+yù`ý`ýý¿bè?|Ó4ý[ýùßp-7ôýú?
þðýüýø+ðiýÉý¿ýYáùçt-vø\Žùðiy¼iÈði!çè
àç¿pã`ýç>í?¶ÚÀè@Èhùtø?qu|L?ðèßó6í?ŽÝhó1ýxí@æv×½} }èGúÑ@øè0's}GZøÝF`áÓJ+u/H`j»¶Óα$JmÛcF™N~ðùc6Áæi
[çýp±ßŽÀ§içSi@+ýã°
H~±Iášß"ú90ã•`È,,«µè@|Ý|èhø~qš-)èÈ- R?@CNÖ¶-; >ùøqo6¶^Ó-GýÜfe»~-¶@æG¼-myz...FøÐ-ùÇ: 'J»~æG¥)´ÓmShD
m[ [ ; ) `ýé-W;m@fáK%¹Q~B{øWÖ-ð~ã6w?°\ÈÍ~tß-Mö,+3"ðó´úfì
y`Ô¶<¿8µ+í?ðVpyú@™çðteqdóÈ×$
-#W3ÈeÝŽ!¥!çðã,
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HO>1ræèÈJ{f«é(µ90ÑòfWZÛ3ää^àclµmŽt`e³9Ik>šG/uzmlÑÛ@`ânGj³.hít9w>I¥6 í±žy/µ=ß~_m{ , {@í'Ž¶æ¶%, İjkhÛ|Û~@µ90Ófd
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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=Xí0Ä`èáÜ\P1»MhÝ9fMà-Ìv@dDAíxavB™[Ý^fJÃ-Pø`Ò,AÛV^...ó¹f
ÌH ín+PÛ-Æé"æd>òzÍÛ`næ"çŠ¹ €Ø@ð'>äbµ- -&úÛíãø2»Æv¹+PÁKyí¼αóòD:²αææ,AGm`Ö\nzèçíÛÁ™ã¼.uí†YC%6iOMF"á3ø¶rÁÛ$`Ã5...
µúæÃNH...T[XF64ÏT,Ñæ-üÈM0èE)`#ý5αXYf`ø×α
```

--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: sfsdfl;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

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
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 x-document , -abcdefg -. 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. Note: 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 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) 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"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text • multiSelect: option text
** 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"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text • multiSelect: option text
** 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

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
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 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) 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"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text • multiSelect: option text
** 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"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text • multiSelect: option text
** 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://aul.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

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
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>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 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) 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">• boolean: true, false• number: 123, 145.3, -45 etc• date: yyyy-mm-dd e.g. 2014-02-23• singleLineText: single line of text• multiLineText: text separated by newline characters• singleSelect: option text
** 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://aui.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: sfsdfl;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://a1.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 this 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">• NEVER_RESPONDED (Represents a root mail or an individual mail - no forwards or replies exist for this mail)• REPLY (represents a reply to the parent mail)• FORWARD (represents a forward of the parent mail)

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://aul.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"> • Pending • Delivered • Failed

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. Note: 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">• INBOX• SENTBOX• DRAFTBOX

Examples/Samples

Sample request

```
https://a1.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
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"> Deleted NotDeleted
**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://a1.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 OrgWideSavedSearchGroup, ProjectWideSavedSearchGroup, StandardSavedSearchGroup, 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: 1 - Saved searches created by a user 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 Can take Values: 1 - Partial 2 - Outstanding 3 - N/A 5 - Closed Out 7 - Responded 8 - Overdue
*****mailBox	String	1	The mailbox on which this search was performed, can take values: ALLBOX INBOX SENTBOX 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 UTC format yyyy-MM-dd'T'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: LAST7DAYS LAST30DAYS LAST90DAYS NEXT7DAYS NEXT30DAYS NEXT90DAYS YESTERDAY TODAY TOMORROW BETWEEN BEFORE ON AFTER
****responseDate1	String	0..1	response due date in UTC format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'
****responseDate2	String	0..1	Present when the responseDateQualifier is BETWEEN
****responseDateQualifier	String	0..1	Qualifier for the sent date parameter, can be one of: LAST7DAYS LAST30DAYS LAST90DAYS NEXT7DAYS NEXT30DAYS NEXT90DAYS YESTERDAY TODAY TOMORROW BETWEEN BEFORE ON 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: LAST7DAYS LAST30DAYS LAST90DAYS NEXT7DAYS NEXT30DAYS NEXT90DAYS YESTERDAY TODAY TOMORROW BETWEEN BEFORE ON 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: -no mail type is passed as parameter to search -showTransmittalsOnly is false -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 : 0 - user in to recipient 1 - user in cc recipient 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: BooleanCustomField TextCustomField MultiSelectCustomField 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.
****inrefmailto	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: NORMAL: Ascending order 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>Ssl_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://aui.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"> • MANDATORY • NOT_MANDATORY • CONDITIONAL
***** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
*** 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"> • MailTypeId • ReasonForIssue • ResponseRequired • Attribute1 • Attribute2 • Attribute3 • Attribute4
*** 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"> • MANDATORY • NOT_MANDATORY • CONDITIONAL
***** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
*** 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"> • TotalAttachmentCount • MailSubject • MailBody • ToUserId • CcUserId • BccUserId • ResponseRequiredDate • Confidential • RichMailText
* 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"> • Closed • Completed • Answered <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> • Confirmed • Accepted • Agreed • Closed
*** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
*** 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"> • STRING • BOOLEAN • RATIO • INTEGER • DOUBLE • LONG • DATE • COMPLEX
*** 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>
  </EntityCreationSchemaFields>
</MailSchema>
```

```

</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 " 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="NOT_MANDATORY" />
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Attribute 1</FieldName>
    <Identifier>Attributel</Identifier>
    <SchemaValues>
        <SchemaValue>
            <Value>Podium</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>North Tower Hotel</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Events Centre</Value>
        </SchemaValue>
        <SchemaValue>
            <Value>Project Wide</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>
<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>

```

```

        </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>1879048219</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="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>
            <Link rel="customFieldSchema" href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048516/schema" />
        </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>
    </SchemaValues>

```

```

    <SchemaValue>
      <Id>1879048206</Id>
      <Value>Site Instruction</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
</EntityCreationSchemaFields>
<SearchSchemaFields>
  <MultiValueSchemaField>
    <Attributes>
      <SearchableField/>
      <SearchResultField sortable="false"/>
    </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>WP3.04 - Gutters</Value>
      </SchemaValue>
      <SchemaValue>
        <Value>WP3.05 - Glazed Roof</Value>
      </SchemaValue>
    </SchemaValues>
  </MultiValueSchemaField>
</SearchSchemaFields>

```

```

    <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>
    <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>From Organization Name</FieldName>
  <Identifier>fromtradingname</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchableField/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>To Organization Name</FieldName>
  <Identifier>totradingname</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>

```

```
<SearchableField/>
  <SearchResultField sortable="true"/>
</Attributes>
<DataType>STRING</DataType>
<FieldName>Mail No</FieldName>
<Identifier>docno</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <SearchableField/>
    <SearchResultField sortable="true"/>
  </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>1879048279</Id>
      <Value>Design Advice</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048519</Id>
      <Value>Design Change Request</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>6</Id>
      <Value>Email</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>
    <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>
  </SchemaValues>
</MultiValueSchemaField>
</Attributes>
```

```
</SchemaValue>
<SchemaValue>
  <Id>10</Id>
  <Value>Request For Information</Value>
</SchemaValue>
<SchemaValue>
  <Id>2219</Id>
  <Value>Response to Tender RFI</Value>
</SchemaValue>
<SchemaValue>
  <Id>1879048206</Id>
  <Value>Site Instruction</Value>
</SchemaValue>
<SchemaValue>
  <Id>1879048512</Id>
  <Value>Subcontractors Advice</Value>
</SchemaValue>
<SchemaValue>
  <Id>2198</Id>
  <Value>Tender RFI</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>
    <SearchableField/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Body</FieldName>
  <Identifier>corrdata</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchResultField sortable="false"/>
  </Attributes>
```

```
<DataType>LONG</DataType>
<FieldName>Total file size of all attachments</FieldName>
<Identifier>totalAttachmentsSize</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchableField/>
  </Attributes>
  <DataType>DATE</DataType>
  <FieldName>Closed Out</FieldName>
  <Identifier>closedoutdate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchableField/>
    <SearchResultField sortable="false"/>
  </Attributes>
  <DataType>DATE</DataType>
  <FieldName>Due</FieldName>
  <Identifier>responsedate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchableField/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>From</FieldName>
  <Identifier>fromuserfullname</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <SearchableField/>
    <SearchResultField sortable="false"/>
  </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>Project Wide</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Retail Building</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>South Tower Hotel</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Spa Building</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <SearchableField/>
    <SearchResultField sortable="false"/>
  </Attributes>
  <DataType>LONG</DataType>
  <FieldName>Total file size of all attachments</FieldName>
  <Identifier>totalAttachmentsSize</Identifier>
</MultiValueSchemaField>
```

```

</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>
    <SearchableField/>
    <SearchResultField sortable="true"/>
  </Attributes>
  <DataType>DATE</DataType>
  <FieldName>Sent Date</FieldName>
  <Identifier>sentdate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchResultField sortable="false"/>
  </Attributes>
  <DataType>COMPLEX</DataType>
  <FieldName>From</FieldName>
  <Identifier>fromUserDetails</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <SearchableField/>
    <SearchResultField sortable="true"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Subject</FieldName>
  <Identifier>subject</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <SearchableField/>
    <SearchResultField sortable="false"/>
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Attribute 3</FieldName>
  <Identifier>thirdattribute</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Value>Architectural</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Commercial</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Electrical</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Fire</Value>
    </SchemaValue>
    <SchemaValue>

```

```

        <Value>Health & Safety</Value>
    </SchemaValue>
</SchemaValue>
    <Value>Hydraulics</Value>
</SchemaValue>
</SchemaValue>
    <Value>Interior Design</Value>
</SchemaValue>
</SchemaValue>
    <Value>Structural</Value>
</SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="false"/>
    </Attributes>
    <DataType>COMPLEX</DataType>
    <FieldName>Recipients</FieldName>
    <Identifier>mailRecipients</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>To</FieldName>
    <Identifier>touserfullname</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="false"/>
    </Attributes>
    <DataType>COMPLEX</DataType>
    <FieldName>Closed Out Details</FieldName>
    <Identifier>closedoutdetails</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true"/>
    </Attributes>
    <DataType>BOOLEAN</DataType>
    <FieldName>Confidential</FieldName>
    <Identifier>confidential</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
    <Attributes>
        <SearchableField/>
        <SearchResultField sortable="true"/>
    </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>1879048219</Id>
            <Value>Issued for Coordination</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>4</Id>
            <Value>Issued for Information</Value>
        </SchemaValue>
    </SchemaValues>

```

```
        <Id>7</Id>
        <Value>Issued for Review</Value>
    </SchemaValue>
    <SchemaValue>
        <Id>8</Id>
        <Value>Issued for Tender</Value>
    </SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
</SearchSchemaFields>
</MailSchema>
```

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">• inbox• sentbox• draftbox• allbox
search_query	String(no limit)	0..1	Lucene search query. Field names available for searching: <ul style="list-style-type: none">• attribute• secondaryattribute• thirdattribute• fourthattribute• closedoutdate• corrdata• corrtypeid• docno• fromtradingname• fromuserfullname• inreftomailno• reasonforissueid• respondedate• sentdate• subject• tostatusid• totradingname• touserfullname Note: 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"> • attribute • closedoutdetails • confidential • corrtypeid • docno • fromUserDetails • inrefmailto • mailRecipients • reasonforissu • respondedate • secondaryattribute • sentdate • subject • tostatusid • totalAttachmentsSize • totalLocalAttachmentsSize • attachedDocumentCount
search_type	String	0..1	<p>One of;</p> <ul style="list-style-type: none"> • NUMBER_LIMITED - return a maximum number of results. Please refer to search_result_size parameter which is mandatory for this search type. • FULL - return all matching results. • COUNT_ONLY - return only 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"> ◦ return_fields ◦ search_result_size ◦ sort_field ◦ sort_direction • 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. <p>Note: 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 only if search_type is explicitly set to PAGED. If specified, the value must be a number that is divisible by 25. Without this parameter specified, this defaults to 25</p>
page_number	Integer	0..1	<p>This parameter is available only if search_type is explicitly set to PAGED. If specified, the value must 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 1.</p>
search_result_size	Integer	0..1	<p>This parameter is available only if search_type is explicitly set to NUMBER_LIMITED. The value must be a number that is divisible by 25. Without this parameter specified, this defaults to 250.</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 not 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"> • confidential • corrtypeid • docno • inrefmailto • reasonforissu • respondedate • sentdate • subject
sort_direction	String	0..1	<p>One of;</p> <ul style="list-style-type: none"> • ASC, ascending order • DESC, descending order <p>Note: Without this parameter specified, sort defaults to ASC.</p>

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

https://aui.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. Notes: 1. If a paged search is performed, this number represents all pages (including those not returned in the current page of results) 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. Note: Only applicable to a paged search.
TotalPages	Attribute Integer	0..1	The total number of pages available for the specified page_size. Note: Only applicable to a paged search.
PageSize	Attribute Integer	0..1	The page size for the search (will match specified page_size). Note: Only applicable to a paged search.
CurrentPage	Attribute Integer	0..1	The current page of results (will match specified page_number). Note: 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"
**** 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	
***** 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"> • Outstanding • N/A • Responded • Overdue • Closed-Out
**** DistributionType	String	1	One of: <ul style="list-style-type: none"> • TO • CC • BCC
**** 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" UTC format
*** Status	String(20)	0..1	Returned when return_fields parameter includes the value "tostatusid" Specifies the status of the mail which will be one of: <ul style="list-style-type: none"> • Outstanding • N/A • Responded • Partial • Overdue • Closed-Out
*** 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>TO</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>TO</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

Status Code	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

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">• Don't Process• Error• Waiting Approval• Approved• Rejected
* Attachments	Group	1	This section lists attachments on this mail.
** RegisteredDocumentAttachment	Group	0..n	Registered documents may only 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. Notes: 1. attachmentId is not the same value as the documentId. Please refer to the <i>Download Mail Attachment</i> API service for further information. 2. When the transmittal attachment is confidential AND the user is not in the transmittal recipient list or documents access list, attachmentId is omitted.
*** Confidential	boolean	1	Confidentiality status of the attached registered document, as determined from the sender's point of view. Note: This status value is retained if the correspondence is forwarded, with attachments intact; i.e the status always reflects the current confidentiality of the original sender's document, even after the correspondence has been sent.
*** DocumentId	String	0..1	The id of the registered document attached to this sent mail. Note: 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. Note: 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 only be attached to mail items that are not 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 any mail type.
*** MailId	String	1	The id of the mail attached to this mail. Note: 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. Note: 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 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: <ul style="list-style-type: none"> • OUTSTANDING • N/A • RESPONDED • CLOSED-OUT <p>Configured available values for Responded</p> <ul style="list-style-type: none"> • Closed • Completed • Answered <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> • Confirmed • Accepted • Agreed • Closed
*** DistributionType	String	1	One of; <ul style="list-style-type: none"> • TO • CC • BCC

*** 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. Note: This will only appear if the IsRegistered value is true.
** RegisteredByUserId	String	0...1	The user id of the person who registered the mail. Note: 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"> • OUTSTANDING • N/A • RESPONDED • PARTIAL • CLOSED-OUT <p>Configured available values for Responded</p> <ul style="list-style-type: none"> • Closed • Completed • Answered <p>Configured available values for Closed-Out</p> <ul style="list-style-type: none"> • Confirmed • Accepted • Agreed • Closed
* 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"> • BOOLEAN • SINGLE_LINE_TEXT • MULTI_LINE_TEXT • DATE • NUMBER • SINGLE_SELECT
*** Identifier	String	1	Custom field identifier.
*** Label	String	1	Localized custom field label.
*** Value	String	1	Custom field value (may be an empty element). 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"> • unitQuantity (e.g. length) • unitName (e.g. metre)

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>61922221111</Fax>
<Footer/>
<FromUserDetails>
  <OrganizationId>1879048492</OrganizationId>
  <LogoPath href="http://origin-aul.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://a1.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://aui.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.

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_ATTACHMEN T	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://aul.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">• BOOLEAN• SINGLE_LINE_TEXT• MULTI_LINE_TEXT• DATE• NUMBER• SINGLE_SELECT
* 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 Unit Table): <ul style="list-style-type: none"> unitQuantity (for NUMBER type only, e.g. length) unitName (for NUMBER type only, e.g. metre) minLength (for SINGLE_LINE_TEXT type only, e.g. 10) maxLength (e.g. 20) options (for SINGLE_SELECT type only)
*** 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>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 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) 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"> • boolean: true, false • number: 123, 145.3, -45 etc • date: yyyy-mm-dd e.g. 2014-02-23 • singleLineText: single line of text • multiLineText: text separated by newline characters • singleSelect: option text
** 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-DocumentId	String	0..n	Id of the registered document to attach

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

<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
%âãĬÓ

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
xæi½>@eÉ@,æ`ýĀp,Āx?Ūá@6...ë]@ePó'fßx`2,fŽU]Ō8,ãTWEÆĀĪA2ß\$sp+ýù`ý~ýý¿pé?|Ó4ý[ýúßp-7đýú?
bðýúýø÷ðíýĒý¿YáùÇt-Vø\Žúðiy%ĪĒđĪ!çē
ăç¿pă`ýç>í?¶ŪĀē@Ēhùtø?qŪ|L?ðēßó6Ī?ŽÝhó1ýXĪ@æv×½•}ēGŪŪñøfŌ°s}GZøÝĒ*ÓJ+u/H`j»¶Īóñ\$JmŪüçĒ™N-òùc6ĀæĪ
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H-±ĪāšĒ"ú9Ōā•`Ē, ,«µē@|Ý|ēhø~qš-)ēĒ- R?"@CNŌ¶-; >üøqo-¶Ī6ā^Ō-GýŪĒe»~¶Ī@æG%-myz...FðĐ-ùÇ:'J»-æG¥)´ŌmShD
m[[;] 'ýé-W; m@fĀK%?Q~B{owŌ-ð-ă6w?°\ĒĪ~tß-MŌ,÷3"ðó'ŪfĪ
y*Ō¶<¿8µ†í?ðVpyú@™çðteqđóĒ×š
-#W3ĒeÝŽ!¥!çòā,
µµ/O<7"é:ýX%æ×FVŪ9Wum¶²...6Km;Ē ©ĀJ3ŽFEMš#•} h@*müR ...6ý,`ĪĒr*Ū>:Ūç6]0-GĀ¿ViāĪI{ }Ē=m¿-Īg; íŪkh³OI{ "zO=i½-
«ŌŽĪĒēĪíó3&-Ō,Ō³ýĒ°- kùē{úq+í¿ĪkùĀš>M{G:³Q!Y'X;ððc{&KýŌ'Øµ Ō†ŌŌ"±@Ēù@z{váóG"ē>u8&4ĒLÇ@:ŪtĀ^-÷Ž}#Āg²;-

```

HO>1rœèèJ{f«é(µ90ÑófWZŪ3ää^àclµmžt´e³9Ik>šG/uZmlŇŪ@´ânGj³!hít9w>I¥6 í±žy/µ=ß~_m{,{©í'ž¶Pœ¶%,İjkhŪ|Ū~@µ90Ófd
¥¶ŪèBSO>Ÿ.3-ZžòH)ÍrFW¹"...İl¼yðãèš"¶-5α
UúfI;±Ū!,ª´k+ šSksw´PVŌ|Ě
Ūfèó(µ=|æ-4)jSC
š;ÖætZiiã--yĐ¼fHmèD-:´Ō|0iVxih18Dm:8š-
,Z>>í|ÖúŸžt4ðα6Ě•-f*k+fjĐ|@ŌŪ|Đæ°yñ™>Ě<5ðoŌfĚ)ŌŇĀĚ%#OFŷŪš´-Ě<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`èáŪ\Pl»MhŸ9fMà-İV@dDAí×aV×B™[Ÿ^fJĀ-P|8`Ō„AŪV^...ó¹f
İH ín+ĤŪ-Æé"áèd>ðzİŪ`næ"Çš¹ €ŪŌð'>äbµ- -&ŭŪİâα2»ŷv+ĤĀKyİ¼αóðD:²αææ,AGm-Ō\nzÈÇiŪĀ™ã¼.uİ†YC%6İOMf"á3o¶rĀŪš"Ā5...
µŪæĀNH...T[XF64İT,Ňæ-ŭĚM0èE)`#ŷ5αXYf`ø×α

--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"> MailSent MailWaitingForApproval NotAuthorised

* 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 x-document, -abedfg . 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. Note: 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 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) 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://a1.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>
</DIV></DIV>
</DIV></BR>An email with a pre-defined signature.</BR></BR>
</P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">Vince Costanza</?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" /></o:p></o:p></P>
</P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></CITE ELECTRICAL</o:p></o:p></P>
</P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></tel: </o:p></o:p></P>
</P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></fax:</o:p></o:p></P>
</P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></o:p>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.</P>
</P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></P>
</BR></BR></BR></DIV>
</DIV align=left>
</HR>
From: Patrick O'Leary Sent: 17/11/2009 1:50:49 PM EST (GMT +11:00)</BR>To: Vince Costanza : Charlie Putrino Mail Number: TRANSMIT-000184 Subject: Attachments for comments required </BR></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>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

%âãîó

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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UúfI;±Û!,^k+ šSksw´PVÖ|È

Úfèð(µ=|æ-4)jSC

š;Öæ†Ziiã~-yĐ¼fHmèD-: `Ö|0iVxih18Dm: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
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~èáú\P1»Mhÿ9fMà-ÌV@dDAíxavxB™[Ý^fJÃ-P|8^Ö„AÛV^...ó¹f
ÌH ín+þÛ-Æé"áed>ÒzÏû"næ"ÇŠ¹ €Ø@ð'>äbu- -&ûÛîâ²»Æv¹÷þÃKYÏ¼ºóóD:²ºææ,AGm-Ö\nzÈÇiÛÃ"ã¼.uÏ†YC%6ìOMf"á3o¶rÅÛ$"Ã5...
µûæÂNH...T(XF64ÏT,Ñæ-ûÈM0êE)`#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"> MailSent MailWaitingForApproval NotAuthorised
* 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 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) 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".

nbsp;</o:p></P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">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.</P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></P>

</DIV>
<DIV align=left>
<HR>
From: Patrick O'Leary
Sent: 17/11 /2009 1:50:49 PM EST (GMT +11:00)
To: Vince Costanza : Charlie Putrino
Mail Number: TRANSMIT-000184
Subject: Attachments for comments required

</DIV>Some attachments to comment on.

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-DocumentId: 1879099024

--myboundary
X-DocumentId: 1879099380

--myboundary
X-MailId: 1879048223

--myboundary
X-AttachmentId: 1879053216

--myboundary
X-Filename: localFile01.pdf

%PDF-1.2
%âãĭÓ

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`ýĀp, Āx?Üâ@6...è]@ePÓ'fBx`2, fŽU|Ö8, äTweEæİA2ß$sp+ýù`ý~ýýzpbé?|Ó4ý[ýúßp-7ôýú?
bōýúyō+δiýÉýzýYáùçt-vø\žûðiy¼iÈði!çe
äçzþã~ýç>i?¶ŪĀē@ēhútø?qŪ|L?öēßó6ī?žŸhó1ýXī@æv×½•}èGŪñøøfó°s}GZ@ŸP°óJ+u/H´j»¶Ūó$JmŪüçP™N~òùc6ĀæĪ
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H~±IāšP"ú90ā•~Ē, , «µē@|Ÿ|ēhø~qš-)èÈ- R?"@CNŌ¶-; >üøqo-¶6Ā^ó-GýŪfē»~-¶@æG¾~myz...FpĐ-ùç: 'J»~æGŸ)´ŌmShD
m[ ( ; )´ýé-W; m@fĀK&³Q~B{oWŌ~ð~ā6w?°\ēī~tß-MŌ, ÷3"óó´Ūfī
y²Ō¶<z; 8µfī?öVpyú@™ÇðteqđóÈ×$
-#W3EeŸž!Ÿ!çðā,
;µ/O<7"ê:ýX¼æ×FVŪ9Wum¶²...6Km;Ē @ĀJ3žFfMš#•} h@*mŪR ...6Ÿ, -íÆr*Ū>:Ūç6]0-GĀzViāI{ }p=mç-Īg; iŪkh³OI{ "zO=i¼-
«Ōž1ēēi63&-O, O³ýĒ- kùē{úq+íçIkuĀš>M{G:³Q!Y'X; ððç{&Kýó'øµ ŌtŌó"±@Èèz{páóG"ē>u8&4DLÇ@:ŪtĀ^~+ž}#Āg²;-
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š;ŌætZiīā~yĐ¼fHmèD-: `Ō|0iVxīh18Dm:8š-
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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=X1đĀ~éáú\p1»MhŸ9fMā-ĪV@GDĀÍxavxB™[Ÿ^fJĀ-P|8^Ō„AŪV^...ó¹f
ĪH ín+PŪ-æé"áed>ðzĪŪ"næ"çš¹ €ŪŌđ'>äbµ- -&ŪŪfāø2»ŸV¹+PĀKyĪ¼øðD:²øææ, AGm-Ō\nzÈçIŪĀ™ā¼.uĪ†YC%¼iOMf"ā3ø¶rĀŪš´Ā5...
µŪæĀNH...T[XF64ĪT,Ūæ-ŪÈMŌÈE)`Ÿ5øXYf`ø×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">MailSentMailWaitingForApprovalNotAuthorised
* 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>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 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) 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://aui.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>
</DIV></DIV>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">Vince Costanza<?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" /><o:p></o:p></P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">EXCITE ELECTRICAL<o:p></o:p></P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">tel: < +61 5 24644415<o:p></o:p></P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">fax:+61 5 24644416<o:p></o:p></P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"><o:p></o:p></P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify">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.</P>
<P class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"></P>

</DIV>
<DIV align=left>
<HR>
From: Patrick O'Leary
Sent: 17/11 /2009 1:50:49 PM EST (GMT +11:00)
To: Vince Costanza : Charlie Putrino
Mail Number: TRANSMIT-000184
Subject: Attachments for comments required

</DIV>Some attachments to comment on.

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


```

>>
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~èáú\p1»Mhÿ9EMà-ìV@dDAí×aV×B™[Ý^fJÃ-P|8-Ö„AÛV^...ó¹f
ÏH ín+þÛ-Æé"áed>òzÏû"næ"ÇŠ¹ €Ø@ð'>äbµ- -&ûÛîâ²»Æv¹÷þÃKyÏ¼µóðD:²µææ,AGm-Ö\onzÈÇiÛÃ"ã¼.uÏ†YC%6ìOMf"á3o¶rÄÛ$~Ã5...
µúæÂNH...T[XF64ÏT,Ñæ-ûÈM0ëE)`#ÿ5µXYf`ø×µ

--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"> MailSent MailWaitingForApproval NotAuthorised
* 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://a1.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 this 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">• NEVER_RESPONDED (Represents a root mail or an individual mail - no forwards or replies exist for this mail)• REPLY (represents a reply to the parent mail)• FORWARD (represents a forward of the parent mail)

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://aul.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"> • Pending • Delivered • Failed

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. Note: 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">• INBOX• SENTBOX• DRAFTBOX

Examples/Samples

Sample request

```
https://a1.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