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text

Aconex Web Services - Developer's Guide

Aconex Web Services API Developer's Guide
Version 5.8



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Release notes

This latest revision of the Developer's Guide, contains detailed information about additional API services just released, and also summarizes changes to existing services introduced since the last release of documentation. The information presented in this guide is current as at January 2016.

What's changed in this release ***IMPORTANT CHANGES***

An overview of enhancements to existing services introduced since the last publication of this document is provided here and is intended to inform web services developers so that they're able to prepare their external application or integrations appropriately.

Documents Services

- Temporary File Upload for New Document Registration added. Uploading Supersede Candidates for existing Documents is not currently supported.

Mail Services - Version 2 changes

- View Mail Schema (version 2) (**This API has been deprecated in Version 2. Please use the View Mail Creation Schema and View Mail Search Schema instead.**)
 - Changed link format
 - Added restricted fields schema link
- View Mail Search Schema (Version 2)
 - New endpoint that provides information about mail search schema for the specified project's mail.
 - Has the same information as View Mail Schema 's SearchSchemaFields.
- View Mail Creation Schema (Version 2)

- New endpoint that provides information about mail schema used to create a new mail for the specified project
- Has the same structure as View Mail Schema 's EntityCreationSchemaFields
- View Mail Reply Schema (Version 2)
 - New endpoint that provides information about mail schema used to reply the given mail
 - Has the same structure as View Mail Schema 's EntityCreationSchemaFields
- View Mail Forward Schema (Version 2)
 - New endpoint that provides information about mail schema used to forward the given mail
 - Has the same structure as View Mail Schema 's EntityCreationSchemaFields
- View Mail Form Fields Schema (version 2)
 - Changed element name from CustomField to MailFormsField
 - View Restricted Fields Schema (version 2)
- View Restricted Fields Schema (version 2)
 - New endpoint to get information about available restricted fields
- Create/Reply/Forward Mail (version 2)
 - Changed CustomFields section to MailFormFields
 - Adds RestrictedFields section
 - Mandatory versioned Content-Type header for the XML part in the payload
- Register Mail (version 2)
 - Adds MailFormFields section
 - Mandatory versioned Content-Type header for the XML part in the payload
- View Mail Metadata (version2)
 - Changed element name from CustomField(s) to MailFormsField(s)
 - Added restricted fields
 - Added links to reply/forward mail schemas

All other mail related API endpoints support both version 1 and 2, but there is no difference in the actual payload.

Full list of available web services

The following is a complete list of Aconex web services available.

Aconex Mail Services

- [View Mail Schema](#)
- [View Mail Search Schema](#)
- [View Mail Creation Schema](#)
- [View Mail Reply Schema](#)
- [View Mail Forward Schema](#)
- [View Mail Forms Fields Schema](#)
- [View Restricted Fields Schema](#)
- [List Mail](#)
- [View Mail Metadata](#)
- [Mark Mail As Read](#)
- [Mark Mail As Unread](#)
- [Download Mail Attachment](#)
- [Create Mail](#)
- [Reply Mail](#)
- [Forward Mail](#)
- [Register Mail](#)
- [View Mail Thread](#)
- [View Fax Log](#)
- [Mail Last Updated](#)

Aconex Documents Services

- [View Document Schema](#)
- [List Documents](#)
- [View Document Metadata](#)
- [Download Document File](#)
- [View Document Event Log](#)
- [Register Document](#)
- [Supersede Document](#)
- [Documents Last Updated](#)
- [Temporary File Upload](#)

Aconex Directory Services

- [Directory Search \(Global\)](#)
- [Directory Search \(Project\)](#)
- [View User Information \(Global\)](#)
- [View User Information \(Project\)](#)
- [View Own User Information](#)

- View Organization Information
- List Users in Group
- Get Organization Logo

Aconex Projects Services

- List Projects for User
- Get Project Logo
- Invite User To Project

Aconex Task Services

- Task Count
- Task List

Note: Additional to above services, a set of OAuth2 services are available, described in a separate specification.

Introduction to Aconex Web Services APIs

This developer's guide provides comprehensive information about Aconex web services for developers looking to integrate enterprise software applications, or develop third party applications that make use of the data residing within Aconex.

Technology

Aconex web services are designed to be programming language and platform independent and use a RESTful implementation with common standards such as HTTPS, URL and XML. At a minimum, developers wanting to make use of Aconex web services should be familiar with the following technologies/concepts:

REST Interface

Aconex web services are based on the concept of REST (Representational State Transfer). To access the services, requests that comply with the HTTPS standard must be constructed and make use of REST principles (See http://en.wikipedia.org/wiki/Representational_State_Transfer for more information).

XML

Aconex web services currently return all responses in XML format, except for the OAuth Services which returns responses in JSON.

Security

Aconex web services are designed to be entirely stateless, meaning the caller must provide valid user credentials as part of every request. The authenticating user's account must be active and the user must have access to the relevant project. All requests must also be over HTTPS on port 443. Any requests which are not performed over an encrypted channel will be rejected.

Currently two types of authentication are supported:

- Basic Authentication
- OAuth2

For user accounts having enabled SSO (Single Sign On) or 2SV (Two Step Verification), only the OAuth2 can be used.

Basic Authentication

The username and password is to be provided in the request using Basic Authentication principles (See http://en.wikipedia.org/wiki/Basic_access_authentication).

```
Authorization: Basic BASE_64_ENCODED_USERNAME_AND_PASSWORD
```

Sample request header:

```
Authorization: Basic cG9sZWYyTpBdXRoM250MWMW=
```

Below is an example using curl (a command line based unix tool to perform web requests) to perform a mail search on the inbox of a project:

```
curl -u user:password https://{hostname}/api/projects/{projectId}/mail?mail_box=inbox
```

Here, username and password refer to the username and password used to logon to Aconex. Using standard clients such as curl, wget (or any programming library) will usually encode the username/password automatically using base64 encoding.

OAuth2

An access token is used in the request header:

```
Authorization: Bearer ACCESS_TOKEN
```

An access token can be acquired using the Aconex API OAuth2 Services described in this specification. This involves a step where the user authorize the application to be given access. Along with the access token is a refresh token. With the refresh token the access token can be renewed indefinitely unless the user's granted access is revoked. (To read more about OAuth authentication in general, see <https://en.wikipedia.org/wiki/OAuth>)

Sample request header:

```
Authorization: Bearer
eyJhbGciOiJSUzI1NiIsImtpZCI6IjEifQ.eyJlbWFpbCI6ImFodXNzZWl1aWZlZG90bWUyMzYxLjZyY29wZSI6W10sImNsaWVudF9pZCI6ImGwaXRlc3QifQ.Y0PH3VLnRpXp_95mEL40bbBfJLq1cnU3aHMwyGYiJVtpBFfh-0v7uJWlaSDK2SnU5YLH7DJHk-_454TMIJKZHQRxIn4hwJTaXPqpp1_vffJjXklBd0piA6NahhDTdWskHnG3uQxrNdy85fTp9KQgmD3KPXDUsfUomyQD8HsgTrwhm0r2WFIWz7xO_OMQIKI-ahYAi7GRRReHS83B3SY_zxM_ZR15F16MCkvZ3e5ZkmsAbFsj9uVxzem2_2HwnJmV3dOLh7IAP1g16Q2syPeZi3Uqj17W3fkJieQOmyqiCJ8M9h-2gUYdF4evVg30vFo4ZkAPXo1QkrFyf2a8db6sg
```

Project API Access

To have access to Aconex project data using Aconex API services, two access models exists

- API enabling process (deprecated)
- API application key

With the enabling process, the following conditions must be met:

- The project must have API access enabled (Access to disconnected projects is not allowed).
- The org must have API access enabled.
- The user must be in a role that has access to perform APIs.

Note: This model is deprecated, new application development should use an application key

Using an API application key, the key is added to the request header:

```
X-Application-Key: xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx
```

Each API application in use should have its own application key.

Versioning

Aconex API services supports versioning. A request response or a request content can be different dependent on the version used. The version used is specified in the request headers, by default version 1 is used. Versioning is used to avoid introducing breaking changes in the API services, allowing developers time to migrate to a new version in their own pace. Eventually older versions will be deprecated and finally removed.

Different groups of API services (Mail, Document, Project, etc.) has its own version. All current API services has a default version 1 set.

The version requested for GET and PUT method services is specified in the "Accept" header, see value in below table. The version used for POST method services is specified in the "Content-Type" header. The "Content-Type" value for the entire payload must be "multipart/mixed". The "Content-Type" for the XML part contains the version value in below table, the header must come directly on the next line after the boundary identifier used and after the header there must be an empty line before the XML payload.

Group	Version	Value	Comment
Mail	1	None or "application/xml"	Default
Mail	2	"application/vnd.aconex.mail.v2+xml"	

Document	1	None or "application/xml"	Default
Directory	1	None or "application/xml"	Default
Projects	1	None or "application/xml"	Default
Tasks	1	None or "application/xml"	Default

Sample GET or PUT Mail services accept header for version 2:

```
Accept: application/vnd.aconex.mail.v2+xml
```

Sample POST Mail Services content-type for version 2:

```
...
-----8d314ec2031d2eb
Content-Type: application/vnd.aconex.mail.v2+xml

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
...
```

Call Basics

Every call to an Aconex web service must include authentication information as detailed in the *Security* section of this document. Calls for each service will be different and require service-specific parameters to be provided. The common base path for all Aconex web services is below:

```
https://{hostname}/api/
```

For simplicity some examples of web service calls are shown below:

1. Search the mail inbox for project id '100' on the organization user 'jdoe' is a member of

```
curl -u jdoe:s3cr3t https://{hostname}/api/projects/100/mail?mail_box=inbox
```

Search the register for project id '100' on the organization user 'jdoe' is a member of

```
curl -u jdoe:s3cr3t https://{hostname}/api/projects/100/register
```

Get the document schema for project id '100' that user 'jdoe' is a member of

```
curl -u jdoe:s3cr3t https://{hostname}/api/projects/100/register/schema
```

Some Aconex web services expect POST content in the form of XML along with file data, e.g. *Register Document*, *Create Mail*. These requests must have a content type set to multipart/mixed and must conform to the structure defined in the Internet standard RFC 1521 - MIME (Multipart Internet Mail extensions). Each service which accepts multipart requests will have its own prerequisites and conditions which must be satisfied but it is important to note that all multipart sections which contain binary file data must be base64 encoded.

Throughout this document *hostname* refers to the unique address of the Aconex instance where the relevant project data resides. Aconex has multiple instances hosted around the world, so it is important you construct service calls to address the appropriate instance for your project.

Error Handling

Aconex web services may return error codes which must be handled appropriately when developing your application or integration. An error may be returned due to an incorrect request structure, a login failure or even an internal system error. All error responses have the same structure as shown in the example below:

```
<?xml version="1.0" encoding="UTF-8"?>
<Error>
  <ErrorCode>CANNOT_SUPERSEDE_LOCKED_DOCUMENT</ErrorCode>
  <ErrorDescription>Cannot supersede document 6590 which is
    locked</ErrorDescription>
  <RequestID>g5g8l8dk</RequestID>
  <SystemTime>2010-02-09T16:13:44.208+11:00</SystemTime>
</Error>
```

Each error response will contain an error status code, a brief textual description, a request id and the system time at which the error occurred. Some error codes can be returned by multiple services, while others will be unique to a specific service. It is important to ensure that the context of the error code is taken into consideration when analyzing the error. It should also be noted that while an error description is provided to end users in the error response, it is not necessarily intended for display to clients which are using your third party application as some of the descriptions may be of a technical nature. The error code, along with the context of the operation, should be used to devise a user friendly error message to end users who make use of your application.

While many errors are unique to individual API services, below is a list of errors that are common and can occur across all API services for all requests and should be handled appropriately.

Login/Authentication Errors

Error code	Reason for error	HTTP Status Code
LOGIN_FAILED	The login credentials provided failed the validation process	400
ACCESS_FAILED_FOR_ORG	The organization of the user performing the request has not been provided with access to the Web Services API	400
ACCESS_FAILED_FOR_PROJECT	The user performing the request has not been provided with access to the Web Services API on the specified project	400
API_NOT_ENABLED_FOR_PROJECT	The Web Services API has not been enabled for the project specified	400
PROJECT_DISCONNECTED	The project specified in the request has been disconnected	400
PROJECT_NOT_ACTIVE	The project specified in the request has been de-activated	400
ACCESS_FAILED_FOR_USER	The user performing the request has not been provided with access to the Web Services API	400
USER_NOT_ON_PROJECT	The user performing the request is not on the specified project	400
USER_ACCOUNT_LOCKED	The user performing the request has had their account locked	400
USER_ACCOUNT_DISABLED	The user performing the request has had their account disabled	400
USER_PASSWORD_EXPIRED	The user's password has expired and needs to be reset	400
USER_PASSWORD_RESET	The user's password has been manually reset by an admin	400
NO_SUITABLE_AUTHENTICATION_METHOD	No suitable authentication method was found in the request, i.e. basic authentication headers were not present	400
TWO_STEP_VERIFICATION_REQUIRED_FOR_ACCESS	User requires 2-step verification to access Aconex.	403

SSO_REQUIRED_FOR_ACCESS	User requires SSO to login.	403
-------------------------	-----------------------------	-----

Note about 2SV error

Both errors will throw a 403 but for 2SV there's a recovery process. As part of Aconex configuration there's a default IdP configured in the system that we redirect 2SV users to. That means that when a 2SV user enter his credentials the app should identify the error above and retrieve the Default IdP from Aconex in order to execute an OAuth process. The 'Get OAuth Status' API service is used to retrieve the default IdP (Authorization server hostname)

Request based errors

Error code	Reason for error	HTTP Status Code
INVALID_PARAMETER_VALUE	A value provided for one of the query or path parameters was not valid	400
INTERNAL_ERROR	An internal system error has occurred which was not expected	500
OPERATION_NOT_SUPPORTED	The operation targeted by the request could not be found	405
OPERATION_DEPRECATED	The version of this operation is no longer available	405
PROJECT_NOT_FOUND	The project specified in the path of the request was not found	400
UNEXPECTED_PARAMETER	A parameter provided in the request was not expected by the service being targeted	400

Note: INTERNAL_ERROR may be returned by the system for a valid request. If this occurs, please contact Aconex via the API Support Forums and provide the following details to allow an investigation into the cause to be completed:

- Aconex instance
- requestId (from the error response)
- date & time of the error.

Performance Throttling

There are reasonable limits which apply to both volume and frequency of requests an API caller can make using Aconex web services. These limits have been put in place to ensure quality of service is maintained for all, especially users of the Aconex web interface. The limits applied by the web services API are based on the following conditions:

- The number of concurrent requests an organization can make
- The frequency in which requests can be made

If these limits are exceeded, the system may return error responses with the following statuses:

Status Code	Reason for Error	HTTP status code
CONCURRENCY_THROTTLE_LIMIT_REACHED	The maximum number of concurrent requests the user can perform has been reached.	503
MAX_FREQUENCY_THROTTLE_LIMIT_REACHED	The frequency at which you are making requests to the web services API has exceeded the limit imposed by the server. You should make requests less frequently.	503

Internationalization (i18n)

Character encoding

Character encoding used in Aconex web services is UTF-8, both for request and response messages. Invalid input will be rejected.

Multi-lingual content

Content is returned in the format provided by end users without any language identification, therefore your application should use this content 'as is'.

Localization

It is possible to get some of the data returned by the web services based on locales supported by Aconex. Aconex web services will currently return data in the locale specified by the user's preferences. Currently there is no ability to request the locale to use with the request.

Technical Support

If you have a technical support query relating to Aconex web services, please register at the [Aconex Developer Network](#) and post your question to the appropriate forum. Forums are moderated by Aconex engineers who specialize in web services.

Future API Changes

From time to time Aconex will make additions or modifications to the services set out in this document, be aware these may cause interruptions to functionality in applications based on the published schema. Aconex will endeavor to provide advance notice of these changes. Developers are advised to monitor this [support page](#) for updated documentation in order to factor any necessary changes into their planning.

Aconex Web Services

Aconex Mail Services (version 2)

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

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>
        </SchemaValue>
      </SchemaValues>
      <!-- THIS IS NEW -->
      <Links>
        <Link rel="mailFormFieldSchema"
href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048516/s
chema" />
        <Link rel="restrictedFieldSchema"
href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/18790
48516/schema" />
      </Links>
    </MultiValueSchemaField>
  </EntityCreationSchemaFields>
  <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>180</Id>
    <Value>Rejection Notice</Value>
  </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 (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>tostatusid</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Id>2</Id>
      <Value>Outstanding</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
```

```

        </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>
<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>
        <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>
    </SchemaValues>

```

```
</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>
<SchemaValue>
  <Value>WP4.03 - Plaster & Screeding</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.04 - Suspended Ceilings</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.05 - Stone Floor Finishes</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.06 - Ceramic Tiling</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.07 - Carpets/Timbers/Vinyl Flooring</Value>
</SchemaValue>
<SchemaValue>
  <Value>WP4.08 - Painting & Decoration</Value>
</SchemaValue>
<SchemaValue>
```

```

        <Value>WP4.09 - Signage</Value>
    </SchemaValue>
    <SchemaValue>
        <Value>WP4.10 - Artwork/Statues</Value>
    </SchemaValue>
    <SchemaValue>
        <Value>WP4.11 - Internal Fitout</Value>
    </SchemaValue>
    <SchemaValue>
        <Value>WP5.01 - Internal Electrical Installation</Value>
    </SchemaValue>
    <SchemaValue>
        <Value>WP5.02 - Mains Electrical Supply</Value>
    </SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>To Organization Name</FieldName>
    <Identifier>totradingname</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true" />
    </Attributes>
    <DataType>BOOLEAN</DataType>
    <FieldName>Confidential</FieldName>
    <Identifier>confidential</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>From Organization Name</FieldName>
    <Identifier>fromtradingname</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true" />
        <SearchableField/>
    </Attributes>
    <DataType>STRING</DataType>
    <FieldName>Mail No</FieldName>
    <Identifier>docno</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
    <Attributes>
        <SearchResultField sortable="true" />
        <SearchableField/>
    </Attributes>
    <DataType>DATE</DataType>
    <FieldName>Due</FieldName>
    <Identifier>responsedate</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>

```

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

```
</SingleValueSchemaField>
</SearchMailSchema>
```

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not Applicable.

Constraints

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

- De-activated
- Disconnected

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

View Mail Creation Schema (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://aul.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"> • 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
**** 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

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="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>
  </MultiValueSchemaField>
</ComposeMailSchema>
```

```
<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>
  </SchemaValues>
</MultiValueSchemaField>
```

```
<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/s
chema" />
                <Link rel="restrictedFieldsSchema"
href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/18790
48516/schema" />
            </Links>
            <Value>Internal Memorandum</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048222</Id>
            <Links>
                <Link rel="mailFormFieldsSchema"
href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048222/s
chema" />
            </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/s
chema" />
            </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>
        <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>
  </SchemaValues>

```

```
<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>
</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 (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://aul.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"> • 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
**** 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

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="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>
    </SchemaValues>
  </MultiValueSchemaField>
</ComposeMailSchema>
```

```

</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>
  </SchemaValues>

```

<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/s
chema" />
        <Link rel="restrictedFieldsSchema"
href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/18790
48516/schema" />
      </Links>
      <Value>Internal Memorandum</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>1879048222</Id>
      <Links>
        <Link rel="mailFormFieldsSchema"
href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048222/s
chema" />
      </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/s
chema" />
      </Links>
      <Value>Subcontractors Advice</Value>
    </SchemaValue>
    <SchemaValue>
      <Id>256</Id>
      <Value>Tender Transmittal</Value>
    </SchemaValue>
  </SchemaValues>

```

```

        <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>
        <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>
    </SchemaValues>
  </MultiValueSchemaField>

```



```
<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>
</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 (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://aul.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
**** 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

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="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>
      </SchemaValue>
    </SchemaValues>
  </MultiValueSchemaField>
</ComposeMailSchema>
```

```
        <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>
    </SchemaValues>
</MultiValueSchemaField>
</Attributes>
</MultiValueSchemaField>
</MultiValueSchemaField>
```

<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/s
chema" />
                <Link rel="restrictedFieldsSchema"
href="/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/18790
48516/schema" />
            </Links>
            <Value>Internal Memorandum</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>1879048222</Id>
            <Links>
                <Link rel="mailFormFieldsSchema"
href="/api/projects/1879048400/customfields/context/1879048400/subcontext/1879048222/s
chema" />
            </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/s
chema" />
            </Links>
            <Value>Subcontractors Advice</Value>
        </SchemaValue>
        <SchemaValue>
            <Id>256</Id>
            <Value>Tender Transmittal</Value>
        </SchemaValue>
    </SchemaValues>

```

```

        <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>
        <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>
  </SchemaValues>
</MultiValueSchemaField>
```

```
</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>  
</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 (Version 2)

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

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 "mailFormFieldSchema".

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

Parameters

There are no query parameters required for this service.

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://a1.aconex.com/api/projects/1879048400/customfields/context/1879048400/subcont  
ext/1879048200/schema [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
* 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 type only)
*** Option	Group	0..n	Possible options for SINGLE_SELECT type

Sample response

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<MailFormFields>
  <MailFormField type="DATE" mandatory="false" identifier="deadline_date">
    <HintText>What is the deadline?</HintText>
    <Label>Deadline</Label>
  </MailFormField>
  <MailFormField type="BOOLEAN" mandatory="false" identifier="completed_boolean">
    <HintText>Is the task complete?</HintText>
    <Label>Completed?</Label>
  </MailFormField>
  <MailFormField type="MULTI_LINE_TEXT" mandatory="false"
identifier="feedback_multiLineText">
    <HintText>Any feedback?</HintText>
    <Label>Feedback</Label>
    <Specifications>
      <Specification name="maxLength">4000</Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="SINGLE_LINE_TEXT" mandatory="false"
identifier="colour_singleLineText">
    <HintText>What is your favourite colour?</HintText>
    <Label>Favourite Colour</Label>
    <Specifications>
      <Specification name="maxLength">20</Specification>
      <Specification name="minLength">0</Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="NUMBER" mandatory="false"
identifier="pipelength_number_length_metre">
    <HintText>What is your pipe length?</HintText>
    <Label>Pipe Length</Label>
    <Specifications>
      <Specification name="maxLength">25</Specification>
      <Specification name="unitName">metre</Specification>
      <Specification name="unitQuantity">length</Specification>
    </Specifications>
  </MailFormField>
  <MailFormField type="SINGLE_SELECT" mandatory="false"
identifier="status_singleSelect">
    <HintText>Proposal status</HintText>
    <Label>Status</Label>
    <Specifications>
      <Specification name="options">
        <Option>Rejected</Option>
        <Option>Approved</Option>
        <Option>Proposed</Option>
      </Specification>
    </Specifications>
  </MailFormField>
</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 (Version 2)

This service returns the restricted fields schema for the specified project's mail type that belong to user's organisation.

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 request

```
https://au1.aconex.com/api/projects/1879048400/restrictedfields/organization/1879048492/mailtype/1879048516/
```

```
[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
* 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 type only)
*** Option	Group	0..n	Possible options for SINGLE_SELECT type

Sample response

```

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

```

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 Form Fields 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

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
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• corrrdata• 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 • inreftomailno • mailRecipients • reasonforissueid • respondedate • secondaryattribute • sentdate • subject • tostatusid • totalAttachmentsSize • 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. Note: Without this parameter specified, your search defaults to NUMBER_LIMITED with a search_result_size of 250.
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 • inreftomailno • reasonforissueid • 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://aul.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 "reasonforissued"
*** 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" <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
*** 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 "inrefmailto"

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

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

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of

active fields, prior to constructing a search request.

Constraints

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

- De-activated
- Disconnected

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

The service cannot search multiple mailboxes at the same time.

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

Further Reading

Introductory notes about Lucene queries may be found here:

http://lucene.apache.org/core/3_5_0/queryparsersyntax.html

Related APIs

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

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-ddT'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-ddT'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
*** 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
*** 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>Deadline</Label>
      <Value></Value>
    </MailFormField>
    <MailFormField>
      <DataType>BOOLEAN</DataType>
      <Identifier>completed_boolean</Identifier>
      <Label>Completed?</Label>
      <Value></Value>
    </MailFormField>
    <MailFormField>
      <DataType>MULTI_LINE_TEXT</DataType>
```

```

        <Identifier>feedback_multiLineText</Identifier>
        <Label>Feedback</Label>
        <Value></Value>
    </MailFormField>
    <MailFormField>
        <DataType>SINGLE_LINE_TEXT</DataType>
        <Identifier>colour_singleLineText</Identifier>
        <Label>Favourite Colour</Label>
        <Value></Value>
    </MailFormField>
    <MailFormField>
        <DataType>NUMBER</DataType>
        <Identifier>pipelength_number_length_metre</Identifier>
        <Label>Pipe Length</Label>
        <Specifications>
            <Specification name="unitQuantity">length</Specification>
            <Specification name="unitName">metre</Specification>
        </Specifications>
        <Value></Value>
    </MailFormField>
    <MailFormField>
        <DataType>SINGLE_SELECT</DataType>
        <Identifier>status_singleSelect</Identifier>
        <Label>Status</Label>
        <Value></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>
</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

This service marks mail items as read.

Notes:

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

URL structure

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

Parameters

No Parameters

Request Fields

This operation have no request body.

Sample request

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

Response Fields

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

Error Codes specific to the service

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

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

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://a1.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

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

Response Fields

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

Sample response

Not applicable.

Error Codes Specific to the Service

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

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not applicable.

Constraints

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

- De-activated
- Disconnected

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

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

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

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

Related APIs

- List Mail
- View Mail Metadata

Create Mail (Version 2)

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

Request Fields

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

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

Field name	Type(maxlength)	Cardinality	Notes
------------	-----------------	-------------	-------

Mail	Group	1	
* AttachedDocId	String	0..n	
* Attribute1+	String(200)	0..n	
* Attribute2+	String(200)	0..n	
* Attribute3+	String(200)	0..n	
* Attribute4+	String(200)	0..n	
* BccUserId	String	0..n	UserId(s) of BCC recipients
* 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
* 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
* 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
** 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://aui.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="commute_number_length_kilometre">25</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="restricted_commute_number_length_kilometre">25</RestrictedField>
</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
xæi½»@eÉ@,æ`ýÄp,Âx?Üâ@6...è]@ePÓ' fßx`2, fŽU]Õ8,,äTweEæIÀ2ß\$sp+ÿù`ÿ~ÿÿ¿pè?|Ó4ÿ[ÿÿßp-7ôÿú?
pöÿùÿø÷÷iÿÉÿÿÿYáùçt-Vø\Žùðiy%îÉði!çé
âç¿bã`ÿç>1?¶UÀè@Èhùtø?qÚ|L?öèßó6î?Žÿhó1ÿXî@ev@×½•}èGûÑ@øfÖ°s}GZ@ÿÿPªÓJ+u/H`j»¶Ö¤JmÛüçP
™N~ðùc6ÁæÎ[çÿp±ßŽÄ§ÏçSi@+ÿã°
H~±IâšP`ú9Ôã•`È,,«µè@|ÿ|èhø~qš-)èÈ-
R?"@CNÖ¶|-;>üøqo-¶6â^Ó-GÿÛfe»~¶@æG¾~myz...FßÐ-ùç:'J»~æGÿ)´ÖmShD
m[[j)´ÿé-W;m@fâK%¹Q~B{oWÖ~ð~ä6w?°\ÈÍ~tß-Mö,+3"ðó´Úfî
yªÖ¶<¿8µ±í?öVpyú@™ÇðteqđóÈ×§
-#W3ÈeÿŽ!¶!çðã,
jµ/O<7"ê:ÿX½æ×FVú9Wum¶²...6Km;Ê ©ÄJ3ŽFfMš#•] h@*mür
...6ÿ,-ÍÆr*Û>:Ûç6]0-GÀ¿ViàI{ }P=m¿~Ïg;íÛkh³OI{ "zo=í¼-«Öž1êêió3&-O,0³ÿÿ°-
kùè{úq=¿¿ÍkùÄ§>M{G:³Q!Y'X;Öðc{&KÿÓ'Øµ ÕtÖÖ"±@Èù@z{¤áóG"è>u8&4DLÇ@:ÚtÃ~÷ž}#Àg²;-

```
HO>lræèêJ{f«é(µ9ÖÑöfWZÛ3ää^àclµmžt'e³9Ik>šG/uZmlŃŮ@'ânGj³!hít9w>I¥6
í±žy/µ=ß~_m{,{@Í'ž¶Pæ¶%,ĭjkhÛ|Û~@µ9ÖÖfd¥¶ùéBSO>Ÿ.3-ZžôH)ÍrFW¹"...í1¼yðãèš"¶-5α
UúfI;±Ů!,a'k+ šSksw'PVÔ|Ê
Úfèó(µ=]æ~4)jSC
š;Öæ†Ziiä~yĐ¼fHmèD-: `Ô|0iVxih18Dm:8š-
,Z>>í|Öúžžt4ôα6æ•-f*k+fjĐ|@ÖŮ|Đæ°yñ™>æ<5ðoÔfÈ}ÖÑĀÈ%#OFÍŮš'-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\Pl>MhŸ9fMà-ìV@dDAí×aV×B™[Ÿ^fJĀ-P|8-Ö„AŮV^...ó¹f
ÌH ín÷PŮ-Æé"áæd>òzĪŮ"næ"çš¹ €00ð'>äbµ-
-&ûŮĪâα2»Æv¹÷PĀKyĪ¼αóðD:²αææ,AGm-Ō\nzÈÇiŮĀ"ã¼.uĪ†YC¼6ìOMf"á3o¶rĀŮš"Ā5...µûæĀNH...T[XF6
4ĪT,Ńæ-üÈM0èE)`#Ÿ5αXYf`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>
```

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

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
* 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
* 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	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
** 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://aui.aconex.com/api/projects/1879048422/mail/1879049444/reply
```

```

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

[HTTP Post content]
--myboundary

<Mail>
<Attributel>Administration</Attributel>
<Attributel>Podium</Attributel>
<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>
</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>
</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:
sfsdfl;kf;dk;l kf;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
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 (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
* 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-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	1..n	UserId(s) of TO recipients
* 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
* 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
** 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://aui.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>

</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>

</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;l kf;ldss
  <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
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 (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://aul.aconex.com/api/projects/1879048422/mail/

[HTTP Header]

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

[HTTP Post content]

--myboundary

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

Sample response

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

Sample error response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <ErrorCode>FIELD_LENGTH_EXCEEDED</ErrorCode>
  <ErrorDescription>Field colour_singleLineText exceeded the max. allowed length 20: sfsdf1;kf;dk;lkf;ldss
  <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
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

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://aui.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

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://aui.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

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://aul.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

Aconex Mail Services (version 1)

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://aul.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	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

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</MailSchema>
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```
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  <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>
    <SchemaValue>
      <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

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.

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
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• corrrdata• 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 • inreftomailno • mailRecipients • reasonforissueid • respondedate • secondaryattribute • sentdate • subject • tostatusid • totalAttachmentsSize • 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. Note: Without this parameter specified, your search defaults to NUMBER_LIMITED with a search_result_size of 250.
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 • inreftomailno • reasonforissueid • 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://aul.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 "reasonforissued"
*** 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" <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
*** 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 "inrefmailto"

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

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

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the mail schema beforehand to obtain the list of

active fields, prior to constructing a search request.

Constraints

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

- De-activated
- Disconnected

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

The service cannot search multiple mailboxes at the same time.

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

Further Reading

Introductory notes about Lucene queries may be found here:

http://lucene.apache.org/core/3_5_0/queryparsersyntax.html

Related APIs

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

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://aul.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. <p>Notes:</p> <ol style="list-style-type: none"> 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. <p>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.</p>
*** DocumentId	String	0..1	The id of the registered document attached to this sent mail. <p>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.</p>
*** DocumentNo	String(30)	1	The document number of the registered document attached to this mail.
*** FileName	String(255)	1	The filename of the registered document attached to this mail.
*** FileSize	Long (64-bit signed)	1	The filesize (measured in bytes) of the registered document attached to this mail.
*** Revision	String(15)	1	The revision value associated with the registered document.
*** RevisionDate	String	1	UTC Timezone in the format yyyy-MM-ddT'hh:mm:ss.SSS'Z'
*** RegisteredAs	String	0..1	The id of the attached registered document in the recipient organization's document register. <p>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.</p>
*** Status	String(20)	1	The status value associated with the registered document.
*** Title	String(120)	1	The title value associated with the registered document.
** LocalFileAttachment	Group	0..n	Local files may 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. <p>Note: This id may be specified to the <i>View Mail Metadata</i> API service to obtain more information for the attached mail.</p>
*** FromName	String(61)	1	FirstName + " " + LastName

*** FromOrg	String(60)	1	The organization's Trading Name.
*** MailNo	String(26)	1	The mail number of the attached mail.
*** SentDate	String	1	UTC Timezone in the format yyyy-MM-dd'T'hh:mm:ss.SSS'Z'
*** Subject	String(250)	1	
* Attribute1	Group	0..1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: PRIMARY_ATTRIBUTE
* Attribute2	Group	0..1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: SECONDARY_ATTRIBUTE
* Attribute3	Group	0..1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: THIRD_ATTRIBUTE
* Attribute4	Group	0..1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: FOURTH_ATTRIBUTE
* MailData	String	1	The body of the mail. 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.
* CustomFields	Group	0..1	List of custom field values.
** CustomField	Group	1..n	
*** DataType	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
*** 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	Specification name (refer to Unit Table): <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>
  </Attachments>
  <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

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://aui.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

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

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/{att  
achmentid}/[markedup]
```

Parameters

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

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

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

Response Fields

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

Sample response

Not applicable.

Error Codes Specific to the Service

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

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not applicable.

Constraints

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

- De-activated
- Disconnected

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

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

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

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

Related APIs

- List Mail
- View Mail Metadata

View Custom Fields Schema

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

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-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 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.

Sample request

```

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

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

[HTTP Post content]
--myboundary

<Mail>
<Attribute1>Administration</Attribute1>
<Attribute1>Podium</Attribute1>
<Attribute2>WP3.01 - Cladding</Attribute2>
<Attribute3>A valid value of Attribute 3</Attribute3>
<Attribute4>Archive - Australia</Attribute4>
<Attribute4>Archive - Middle East</Attribute4>
<BccUserId>1879049123</BccUserId>
<BccUserId>1879049126</BccUserId>
<CcUserId>1879049184</CcUserId>
<CcUserId>1879049256</CcUserId>
<MailBody>
<div><br></div>
<div><br><br>An email with a pre-defined
signature.<br><br><span class=aconexsml><span
style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Verdana;
mso-bidi-font-family: Tahoma">
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN:
justify"><span class=aconexsml><span style="FONT-SIZE: 10pt;
COLOR: #ff6600; FONT-FAMILY: Tahoma"><strong>Vince
Costanza<?xml:namespace prefix = o ns =
"urn:schemas-microsoft-com:office:office"
/><o:p></o:p></strong></span></span></p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN:
justify"><span class=aconexsml><span style="FONT-SIZE: 10pt;
FONT-FAMILY: Tahoma"><strong><font
color=#000000>E</font><span style="COLOR:
#ff6600">X</span></span></strong></font
color=#000000>CITE
ELECTRICAL<o:p></o:p></font></strong></span></span>
</p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN:
justify"><span class=aconexsml><span style="FONT-SIZE: 9pt;
COLOR: #ff6600; FONT-FAMILY: Tahoma">tel: <span style="mso-spacerun:
yes">&nbsp;</span></span></span></span></span><span
style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma">+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>
<CustomFields>
<CustomField identifier="completed_boolean">>false</CustomField>
<CustomField identifier="paymentdue_date">2013-12-20</CustomField>
<CustomField identifier="job_singleLineText">Software Engineer</CustomField>
<CustomField identifier="experience_multiLineText">Experienced in all aspects


```
of the software lifecycle.</CustomField>
<CustomField identifier="satisfaction_singleSelect">High</CustomField>
<CustomField identifier="commute_number_length_kilometre">25</CustomField>
</CustomFields>
```

```
</Mail>
```

```
--myboundary
```

```
X-DocumentId: 1879099024
```

```
--myboundary
```

```
X-DocumentId: 1879099380
```

```
--myboundary
```

```
X-MailId: 1879048223
```

```
--myboundary
```

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

```
%PDF-1.2
```

```
%âãïÓ
```

```
1 0 obj
```

```
<<
```

```
/Type /Catalog
```

```
/Pages 3 0 R
```

```
/Outlines 2 0 R
```

```
>>
```

```
endobj
```

```
2 0 obj
```

```
<<
```

```
/Type /Outlines
```

```
/Count 0
```

```
>>
```

```
endobj
```

```
3 0 obj
```

```
<<
```

```
/Type /Pages
```

```
/Count 1
```

```
/Kids [6 0 R ]
```

```
>>
```

```
endobj
```

```
4 0 obj
```

```
[/PDF /ImageC ]
```

```
endobj
```

```
5 0 obj
```

```
<<
```

```
/Producer (ViewCompanion)
```

```
/CreationDate (Monday, 22 May 2006 12:40:35 AM)
```

```
>>
```

```
endobj
```

```
7 0 obj
```

```
<</Length 8 0 R
```

```
/Filter [/FlateDecode]
```


/Info 5 0 R

>>

startxref

420118

%%EOF

--myboundary

X-Filename: localFile02.xls

l=XíòÀ`èáü\P1»MhŸ9fMâ-ÌV@dDAí×aV×B™[Ý^fJÃ-P|8`Ö,,AÛV^...ó¹f

ÌH ín÷PÛ-Æé"á€d>ÖzÏû"nœ"ÇŠ¹ €ØØö'>äbµ-

-&ûÛÎâ²»Æv¹÷PÄKyÏ¼σóöD:²ααα,AGm-Ö\nzÈÇiÛÃ™ã¼.uÏ†YC¾6ìOMf"â3ο¶rÁÛ\$`Ã5...µû

œÂNH...T[XF64ÏT,Ñœ-üËM0ëE)`#Ÿ5αXYf`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, absdefg . 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

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

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

```
[HTTP Header]
```

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

```
[HTTP Post content]
```

```
--myboundary
```

```
<Mail>
```

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

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

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

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

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

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

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

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

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

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

```
<MailBody>
```

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

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

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

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

<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>
</BR></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

--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`ÿÃp,Âx?Üâ@6...ë]@€PÓ'£S×`2,fŽU]Õ8,,ãTwEEæĭA2S\$sp+ÿù`ÿ`ÿÿ¿pè?|Ó4
ÿ[ÿüſp-7ôÿú?þöÿúÿø+ðÿÿÉÿ¿ÿÿYáùçt-vø\Žùðÿÿ%ĭÉðÿ!çé
äç¿pâ-ÿç>ĭ?¶ŪÀè©Éhùtø?qŪ|L?ðèſó6ĭ?Žÿhólyxĭ@ævø×½•}èGŭÑ@ø£Ö°s}GZøÿſªÓJ+u/H`
j»¶Ūøq\$JmŪcſ™N~ðùc6Áæĭ[çÿþ±ſŽÁſĭçSĭ@+ÿã°

H~±IášĤ"ú9Ôã•-Ě,, «µë©|Ý|ëhø~qš-)èĚ-
R? "@CNÖŦ- ;>üøqo-Ŧ6â^Ó-GÿŦfe»~-Ŧ@æG¾~myz...FøD-ùÇ: 'J»~æGŸ)´ŦmShD
m[[;) ´ýé-W;m@fâK%¹Q~B{oWÖ~ô~ã6w?°\ĚÍ~tŦ-Mö,÷3"öó´Ŧfî
y³ŦŦ<¿8µ†í?öVpyú@™ÇòteqđóĚ×š
-#W3ĚeÝž!Ÿ!çòã,
;µ/O<7"ê:ýX½æ×FVú9WumŦ²...6Km;Ě @ĂJ3žFfMš#•] h@*mùR
...6ÿ,-ÍÆr*Ŧ>:Ŧç6]0-GĂ¿ViàI{ }Ŧ=m¿~İg;íŦkh³OI{ "zO=í¼-«òž1êêió3&-O,0³ÿĚ°-
kù€{úq÷í¿ĚkùĂš>M{G:³Q!Y'X;òðc{&KýÓ'Øµ
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HO>1ræèĚJ{f«é(µ9ĐŦňöfWZŦ3ää^âclµmžt´e³9Ik>šG/uZmlŦŦŦ'ânGj³!hít9w>IŸ6
í±žy/µ=Ŧ~_m{ , {ŦÍ'žŦŦæŦ%,İjkhŦ|Ŧ~@µ9ŦŦŦfdŸŦŦùéBSO>Ÿ.3~ZžŦH)ÍrFW¹"...í1¼yđãĚš
"Ŧ-5ø
ŦúfI;±Ŧ!, a´k+ šSksw´PVŦ|Ě
ŦfĚò(µ=]æ~4)jSC
š;Ŧæ†Ziiä~yĐ¼fHmèD-: `Ŧ|0iVxih18Dm:8š-
,Z>>í|ŦúŸžt4ðø6Ŧ•-f*k+fjĐ|@ŦŦ|Đæ°yŦŦ™>Ŧ<5ðòŦfĚ}ŦŦŦĚ%#ŦfĚŦŦŦ'-Ŧ<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`èáù\p1»MhŸ9fMâ-îV@dDAí×aV×B™[Ý^fJÃ-P|8`ö,,AÛV^...ó¹f

ÏH ín÷PÛ-æé"á€d>ÖzÏû"nä"çŠ¹ €Øøð'>äbµ-

-&ûÛîâ²»æv¹÷PÄKyî¼óóD:²æææ,AGm-Ö\nzÈÇiÛÃ"ä¼.uÏ†YC¾6iOMf"â3o¶rÅÛ\$"Ã5...µû
æÂNH...T[XF64ÏT,Ñæ-üËM0ëE)`#ý5æXYf`ø×æ

--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

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-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	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.

Specifying by AttachmentId

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

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

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

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>
<div>
<div>
<div>
An email with a pre-defined
signature.
<span class=aconexsml style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY: Verdana;
mso-bidi-font-family: Tahoma">
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN:
justify">
<span class=aconexsml style="FONT-SIZE: 10pt;
COLOR: #ff6600; FONT-FAMILY: Tahoma">
<strong>Vince
Costanza<?xml:namespace prefix = o ns =
"urn:schemas-microsoft-com:office:office"
/>
<strong>
</span>
</span>
</p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN:
justify">
<span class=aconexsml style="FONT-SIZE: 10pt;
FONT-FAMILY: Tahoma">
<strong>
<font
color=#000000>
</font>
<span style="COLOR:
#ff6600">
<x>
</span>
<font color=#000000>
<cite
ELECTRICAL>
</font>
</strong>
</span>
</span>
</p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN:
justify">
<span class=aconexsml style="FONT-SIZE: 9pt;
COLOR: #ff6600; FONT-FAMILY: Tahoma">
<tel: >
<span style="mso-spacerun:
```


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

xæi½»@eÉ©,æ`ÿÃp,Âx?Üâ©6...ë]@€PÓ'£S×`2,fŽU]Ö8,,ãTwEEæĭA2IS\$sp+ÿù`ÿ`ÿÿ¿pè?|Ó4
ÿ[ÿüſp-7ôÿú?þöÿûÿø+ðÿÿÉÿ¿ÿÿYâùçt-Vø\ŽùðÿÿiĔðÿ!çé
äç¿pâ-ÿç>í?¶ŰÀè©Ĕhùtø?qŰ|L?ðéſó6ĭ?ŽŸhólyxí@ævø×½•}èGŭÑ@ø£Ö°s}GZøŸŦªÓJ+u/H`
j»¶Űª\$JmŰcŦ™N~ðùc6Áĭ[çÿþ±ſŽĀſĭçSí@+ÿã°

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R?"@CNÖ¶-;>üøqo-¶6â^Ó-GÿÛfe»~--¶@æG¾-myz...FðD-ùÇ:'J»~æG¥)´ÔmShD
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y³Ö¶<¿8µ†í?öVpyú@™ÇòteqdoÊ×§
-#W3ÈeÝŽ!¥!çòã,
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UúfI;±Û!, a´k+ šSksw´PVÔ|Ê
Úfèó(µ=]æ~4)jSC
š;Öæ†Ziiä~yD¼fHmèD-:´ò|0iVxih18Dm:8\$-
,Z>>í|Öú¥Žt4ðα6E•-f*k+fjD|@ÖÛ|Ðæ°yñ™>æ<5ðoôfÈ}òÑÂÈ%#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`èáù\p1»MhŸ9fMâ-îV@dDAí×aV×B™[Ý^fJÃ-P|8`ö,,AÛV^...ó¹f

ÏH ín÷PÛ-æé"á€d>ÖzÏû"næ"çŠ¹ €Øøð'>äbµ-

-&ûÛîâ²»æv¹÷PÄKyï¼óóD:²æææ,AGm`Ö\nzÈÇiÛÃ"ã¼.uï†YC¾6iOMf"â3o¶rÅÛ\$`Ã5...µû
æÂNH...T[XF64ÏT,Ñæ-üËM0ëE)`#ý5æXYf`ø×æ

--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

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
* FromUserld*	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
* ToUserld*	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>
<Attributel>Administration</Attributel>
<Attributel>Podium</Attributel>
<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><div>An email with a pre-defined
signature.<br><br><span class=aconexsml><span style="FONT-SIZE:
10pt; COLOR: #ff6600; FONT-FAMILY: Verdana; mso-bidi-font-family: Tahoma">
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"><span
class=aconexsml><span style="FONT-SIZE: 10pt; COLOR: #ff6600; FONT-FAMILY:
Tahoma"><strong>Vince Costanza<?xml:namespace prefix = o ns =
"urn:schemas-microsoft-com:office:office"
/><strong></span></span></p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"><span
class=aconexsml><span style="FONT-SIZE: 10pt; FONT-FAMILY:
Tahoma"><strong><font color=#000000>E</font></span>
style="COLOR: #ff6600">X</span><span style="FONT color=#000000">CITE
ELECTRICAL</span></span></p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"><span
class=aconexsml><span style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY:
Tahoma">tel: <span style="mso-spacerun:
yes">&nbsp;</span></span></span><span style="FONT-SIZE:
9pt; COLOR: #ff6600; FONT-FAMILY: Tahoma">+61 5
24644415</span></span></p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"><span
class=aconexsml><span style="FONT-SIZE: 9pt; COLOR: #ff6600; FONT-FAMILY:
Tahoma">fax:</span></span><span style="FONT-SIZE: 9pt; COLOR:
#ff6600; FONT-FAMILY: Tahoma">+61 5
24644416</span></span></p>
<p class=MsoNormal style="MARGIN: 0cm 0cm 0pt; TEXT-ALIGN: justify"><span
class=aconexsml><span style="FONT-SIZE: 10pt; COLOR: #ff5050; FONT-FAMILY:
Verdana; mso-bidi-font-family:
Tahoma">&nbsp;</span></span></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

--myboundary

X-Filename: localFile01.pdf

%PDF-1.2

%âãïÓ

1 0 obj

<<

/Type /Catalog

/Pages 3 0 R

/Outlines 2 0 R

>>

endobj

2 0 obj

<<

/Type /Outlines


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

>>
stream
xæi½»@eÉ®,æ`ýÄp,Âx?Üâ©6...ë]@ePÓ' fßx`2, fŽU]Ö8,,äTweEæIA2ß$sp+ÿù`ÿ`ÿÿ¿pè?|Ó4ý[ÿùßp-7ôÿú?
pöÿùÿø÷ðíÿÉÿ¿ÿYáùçt~Vø\Žùðiy%îÉði!çé
äç¿pã`ÿç>í?¶ÛÄè©Èhùtø?qú|L?öèßó6î?ŽÝhó1ÿXî@ev×½•}èGûÑ@øfÖ°s}GZøÿÿªªÓJ+u/H`j»¶Ö¤$JmÛúçß
™N~òùc6ÄæĪ[çÿþ±ßŽÄšĪçSi@÷ÿã°
H~±Iâšß`ú9Ôã•`Ē, ,«µè@|Ý|èhø~qš-)èÈ-
R?"@CNÖ¶-; >üøqo-¶6â^Ó-GÿÛfe»~¶@æG¼~myz...FðÐ-ùç:'J»~æG¥)´ŒmShD
m[[;)'ýé-W; m@fâK%¹Q~B{øWÖ~ð~ä6w?°\ĒĪ~tß~Mö,+3"ðó´Úfî
yªÖ¶<¿8µ+í?ðVpyú@™ÇðteqđóĒ×§
-#W3ĒeÿŽ!¥!çðã,
jµ/O<7"ê:ÿX¼æ×FVû9Wum¶²...6Km;Ē ©ĂJ3ŽfFMS#•] h@*mür
...6ÿ,-ĪÆr*Û>:Ûç6]0-GÄ¿ViàI{ }P=m¿~Īg; íÛkh³OI{ "zO=í¼-«ÖŽ1êêiô3&-O, O³ÿÿÊ°-
kùè{úq=í¿ĪkùÄš>M{G:³Q!Y'X; ððc{&KÝÓ'øµ ŐtÖÖ"±@Ēù@z{ªáóG"è>u8&4ĐLç@:ÚtĂ^~÷Ž} #Ăg²; -
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UúfI;±Ū!,ª´k+ šSksw´PVŌ|Ē
Úfêó(µ=]æ~4)jSC
š;Ōæ+Ziia~yĐ¼fHmèD-:ˆŌ|0iVxih18Dm:8$-
,Z>>í|Ōü¥Žt4ðª6•-f*k+fjĐ|@ŌŪ|Đæ°ÿñ™>æ<5ðoŌfĒ}ŌÑĀĒ%#OFĪŪŠ'-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=XíòÀ`èáü\p1»Mhÿ9fMà-ìV@dDAí×aV×B™[Ý^fJÃ-P|8`Ö„AÛV^...ó¹f
ÌH ín÷PÛ-Æé"á€d>ÒzÏû"nœ"ÇŠ¹ €Ø@ð'>äbµ-
-&ûÛîâ□2»Æv¹÷PÃKyÏ¼□óóD:²□œœ,AGm`Ö\nzÈÇiÛÃ"ã¼.uÏ†YC¼6iOMf"á3o¶rÅÛ\$`Ã5...µûœÂNH...T[XF6
4ÏT,Ñœ-üËM0ëE)`#ÿ5□XYf`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">• 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

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://aui.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

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://aui.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

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://aul.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

Aconex Documents Services

View Document Schema

The service retrieves the schema for the specified project's documents.

Notes:

1. The schema describes the fields available for executing a document search operation.
2. Fields may be used to filter search results, or their value(s) be returned in search results, or both.
3. The schema also describes the fields required to be able to register a new document onto a project.

URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/register/schema
```

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/register/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
RegisterSchema	Group	1	

projectName	Attribute String(100)	1	
projectId	Attribute String	1	
* EntityCreationSchemaFields	Group	1	The fields here will describe the XML document that must be submitted to the register document API service when registering a new document.
** 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	Predefined set of identifiers of XML elements that should be sent as part of the register document request when registering a new document. These fields will depend on project configuration, possible values may include: <ul style="list-style-type: none"> DocumentTypeId DocumentStatusId Discipline Attribute1 Attribute2 Attribute3 Attribute4 ReviewStatusId VdrCode Category PackageNumber ContractNumber
*** 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	
**** 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 : 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	Predefined set of identifiers of XML elements that should be sent as part of the register document request when registering a new document. These fields will depend on project configuration, possible values may include: <ul style="list-style-type: none"> • DocumentNumber • Revision • DateCreated • Title • AuthorisedBy • Comments • Comments2 • PrintSize • PercentComplete • Reference • Author • Scale • AccessList • DateApproved • DateForReview • DateReviewed • ToClientDate • RevisionDate • PlannedSubmissionDate • MilestoneDate • TagNumber • VendorDocumentNumber • VendorRev • ContractorDocumentNumber • ContractorRev • AsBuiltRequired • ContractDeliverable • ProjectField1 • ProjectField2 • ProjectField3 • Check1 • Check2 • Date1 • Date2 • HasFile
* 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 : 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	<p>Predefined set of string values depending on project configuration, possible values may include:</p> <ul style="list-style-type: none"> • doctype • statusid • discipline • attribute1 • attribute2 • attribute3 • attribute4 • reviewstatus • contractnumber • packagenumber • vdrcode • category
*** SchemaValues	Group	0..1	
**** SchemaValue	Group	0..n	
***** Id	Long(10)	0..1	A valid value for this field
***** Value	String(100)	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> <p>STRING BOOLEAN RATIO INTEGER DOUBLE LONG DATE COMPLEX</p>
*** FieldName	String(No Limit)	1	Field (label) name used in the application, for display purposes

*** Identifier	String	1	<p>Predefined set of string values depending on project configuration, values may include:</p> <ul style="list-style-type: none"> • authorisedBy • comments • comments2 • confidential • printSize • percentComplete • filename • fileSize • reviewSource • tagNumber • markupLastModifiedDate • numberOfMarkups • current • docno • title • revision • approved • forreview • received • reference • author • reviewed • scale • toclient • revisiondate • registered • milestonedate • plannedsubmissiondate • uploaddate • reviewSource • vendordocumentnumber • vendorrev • contractordocumentnumber • contractorrev • packagenumber • asBuiltRequired • contractDeliverable • projectField1 • projectField2 • projectField3 • check1 • check2 • date1 • date2 • markupdate
----------------	--------	---	--

Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
<RegisterSchema projectName="Breeze Tower" projectId="1879048422">
  <EntityCreationSchemaFields>
    <MultiValueSchemaField>
      <Attributes>
        <EntityField MandatoryStatus="MANDATORY" />
      </Attributes>
      <DataType>INTEGER</DataType>
      <FieldName>Status</FieldName>
      <Identifier>DocumentStatusId</Identifier>
      <SchemaValues>
        <SchemaValue>
          <Id>1</Id>
          <Value>Approved</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>12</Id>
          <Value>Approved Subject to Comments</Value>
        </SchemaValue>
        <SchemaValue>
          <Id>1879048205</Id>
          <Value>As-Built</Value>
        </SchemaValue>
      </SchemaValues>
    </MultiValueSchemaField>
  </EntityCreationSchemaFields>
</RegisterSchema>

```

```
</SchemaValue>
<SchemaValue>
  <Id>1879048216</Id>
  <Value>For Construction</Value>
</SchemaValue>
<SchemaValue>
  <Id>1879048196</Id>
  <Value>For Information</Value>
</SchemaValue>
<SchemaValue>
  <Id>1879048327</Id>
  <Value>For Review</Value>
</SchemaValue>
<SchemaValue>
  <Id>1879048198</Id>
  <Value>For Tender</Value>
</SchemaValue>
<SchemaValue>
  <Id>1879048330</Id>
  <Value>Revise and Re-Submit</Value>
</SchemaValue>
</SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="MANDATORY" />
  </Attributes>
  <DataType>BOOLEAN</DataType>
  <FieldName>Has Backing File</FieldName>
  <Identifier>HasFile</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>BOOLEAN</DataType>
  <FieldName>Check 2</FieldName>
  <Identifier>Check2</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>VDR Code</FieldName>
  <Identifier>Vdrcode</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Value>VDR001</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>VDR002</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
```



```
</SchemaValues>
</MultiValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Attribute 4</FieldName>
  <Identifier>Attribute4</Identifier>
  <SchemaValues>
    <SchemaValue>
      <Value>Attrib4-Val1</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Attrib4-Val2</Value>
    </SchemaValue>
    <SchemaValue>
      <Value>Attrib4-Val3</Value>
    </SchemaValue>
  </SchemaValues>
</MultiValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Contractor Rev.</FieldName>
  <Identifier>ContractorRev</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>RATIO</DataType>
  <FieldName>Scale</FieldName>
  <Identifier>Scale</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Contractor Doc No</FieldName>
  <Identifier>ContractorDocumentNumber</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Project Field 1</FieldName>
  <Identifier>ProjectField1</Identifier>
</SingleValueSchemaField>
```

```
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>INTEGER</DataType>
  <FieldName>Confidential</FieldName>
  <Identifier>AccessList</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Author</FieldName>
  <Identifier>Author</Identifier>
</SingleValueSchemaField>
<SingleValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Title</FieldName>
  <Identifier>Title</Identifier>
</SingleValueSchemaField>
<MultiValueSchemaField>
  <Attributes>
    <EntityField MandatoryStatus="NOT_MANDATORY" />
  </Attributes>
  <DataType>STRING</DataType>
  <FieldName>Attribute 3</FieldName>
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Error Codes Specific to the Service

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

Prerequisites

Required Permissions

The authorising user (specified in the request header) must have the secured asset to search registered documents.

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.

Related APIs

- List Projects for User
- List Documents

List Documents

The service executes a search of an organization's document register for a project.

Note: The use of this service is closely linked to the information returned by the *View Mail Schema* API service (specifically the SearchSchemaFields listed). 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 search API service allows you to request specific data for each search result if required. This is done by populating the return_fields parameter with a comma separated list of identifiers as specified by the search schema fields in the *View Document Schema* API service. By default, the service retrieves only the documentId of **every** result the authorizing user has access 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

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 its sortable attribute set to true. One can also specify the sorting direction (ascending or descending)

Search Type

The searching services provide the ability to perform different types of searches. One can perform a ?paged search which allows the user to request back a specific page from a large number of results, perform a search where only the number of results is returned, limit the number of search results or to get back all available results. This is different to how the Aconex GUI operates in that it does not put an upper limit on the number results that can be returned. Two parameters are involved in specifying the type of search that is to be performed, and if a limited search

is to be performed, the maximum number of results to return. The search_type parameter determines the type of search and the search_result_size allows one to specify the maximum number of results if a limited number search is specified. It is important to note, that if a limited number search is performed, the value given to search_result_size must be at minimum (and a multiple of) 25.

By default, a number limited search is performed with the maximum number of results returned being 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}/register?{parameters}
```

Parameters

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

search_query	String(no limit)	0..1	<p>Lucene search query. Without a search_query, every document in the project is returned. Please refer to the notes below for further information about Lucene</p> <p>Field names available for searching are;</p> <p>* refers it uses "id" to search</p> <ul style="list-style-type: none"> • approved • asBuiltRequired • attribute • secondaryattribute • attribute3 • attribute4 • author • category • contractnumber • contractordocumentnumber • contractorrev • date1 • date2 • discipline • docno • doctype • forreview • markupdate • milestonedate • packagenumber • plannedsubmissiondate • received • reference • registered • reviewed • reviewstatus* • revision • revisiondate • scale • selectlist1 • selectlist2 • selectlist3 • selectlist4 • selectlist5 • selectlist6 • selectlist7 • selectlist8 • selectlist9 • selectlist10 • statusid* • title • toclient • trackingid* • uploaddate • vdrcode • vendordocumentnumber • vendorrev
--------------	------------------	------	---

return_fields	String(no limit)	0..1	<p>A comma-separated list of document fields to return in the search results Field names available to be returned in the response are;</p> <ul style="list-style-type: none"> • approved* • asBuiltRequired* • attribute1* • attribute2* • attribute3* • attribute4* • author* • authorisedBy* • category* • check1* • check2* • comments • comments2 • confidential* • contractDeliverable* • contractnumber* • contractordocumentnumber* • contractorrev* • current • date1* • date2* • discipline* • docno* • doctype* • filename • fileSize* • fileType* • forreview* • markupLastModifiedDate* • milestonedate* • numberOfMarkups* • packagenumber* • percentComplete* • plannedsubmissiondate* • printSize* • projectField1* • projectField2* • projectField3* • received* • reference* • registered* • reviewed* • reviewSource* • reviewstatus • revision* • revisiondate* • selectlist1 • selectlist2 • selectlist3 • selectlist4 • selectlist5 • selectlist6 • selectlist7 • selectlist8 • selectlist9 • selectlist10 • scale* • statusid* • tagNumber* • title • toclient* • trackingid • versionnumber • vdrCode* • vendordocumentnumber* • vendorrev* • versionnumber <p>* Can sort on these fields</p>
---------------	------------------	------	---

search_type	String	0..1	One of; <ul style="list-style-type: none"> FULL, meaning return all matching results NUMBER_LIMITED, meaning return a fixed number of results PAGED, meaning return results by "pages" of variable size. The following parameters are ignored: <ul style="list-style-type: none"> search_result_size COUNT_ONLY, meaning return only a count of matching items. No other information can be retrieved, so the following parameters are ignored: <ul style="list-style-type: none"> return_fields search_result_size sort_field sort_direction show_document_history Without this parameter specified, this defaults to NUMBER_LIMITED with a default search_result_size of 250
search_result_size	Integer(Signed 32 bit)	0..1	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
page_size	Integer(Signed 32 bit)	0..1	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
page_number	Integer(Signed 32 bit)	0..1	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 .
sort_field	String(no limit)	0..1	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
sort_direction	String	0..1	One of; <ul style="list-style-type: none"> ASC, ascending order DESC, descending order Without this parameter specified, this defaults to ASC
show_document_history	Boolean	0..1	Flag that controls whether to return only the latest revision of each matching document, or all document revisions. Without this parameter specified, this defaults to "false"

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aul.aconex.com/api/projects/1879048428/register?search_query=doctype:%22Shop%20Drawing%22%20AND%20Door&return_fields=approved,asBuiltRequired,attribute1,attribute2,attribute3,attribute4,author,authorisedBy,category,check1,check2,comments,comments2,confidential,contractDeliverable,contractnumber,contractordocumentnumber,contractorrev,current,date1,date2,discipline,docno,doctype,filename,fileSize,forreview,markupLastModifiedDate,milestonedate,numberofMarkups,packagenumber,percentComplete,plannedsubmissiondate,printSize,projectField1,projectField2,projectField3,received,reference,registered,reviewed,reviewSource,reviewstatus,revision,revisiondate,scale,statusid,tagNumber,title,toclient,vdrcode,vendordocumentnumber,vendorrev&search_type=NUMBER_LIMITED&search_result_size=75&sort_field=docno&sort_direction=ASC&show_document_history=true
```

The search query in the example above corresponds to a NUMBER_LIMITED (max 75 results) super search query of [doctype:"Shop Drawing" AND Door] in the application. Note the use of URL escape codes in the sample request.

```
https://aul.aconex.com/api/projects/1879048428/register?search_query=registered:[20090901%20TO%2020100101]&return_fields=attribute1,attribute2,author,discipline,docno,doctype,received,reference,revision,revisiondate,statusid,title&search_type=PAGED&page_size=100&page_number=2&sort_field=registered&sort_direction=DESC&show_document_history=false
```

The search query in the example above corresponds to a PAGED super search query of [registered:20090901 TO 20100101] in the application. Note that the sort_field, "registered", does **not** have to be one of the return_fields.

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
RegisterSearch	Group	1	
TotalResults	Attribute Integer	1	The number of correspondences that match the search_query. If a paged search is being performed, then this number will be across all pages including those not shown in the results. For a number limited search, it will be the number of results in the response.
TotalResultsOnPage	Attribute Integer	0..1	The number of results on the current page. Only applicable to a paged search
TotalPages	Attribute Integer	0..1	The total number of pages available. Only applicable to a paged search
PageSize	Attribute Integer	0..1	The page size for the search conducted which will match the page_size parameter provided. Only applicable to a paged search
CurrentPage	Attribute Integer	0..1	The page the results are on. This should match the page_number parameter provided. Only applicable to a paged search.
* SearchResults	Group	1	
** Document	Group	0..n	
** DocumentId	Attribute String	1	
*** DateApproved	DateTime	0..1	Returned when the return_fields parameter includes the value "approved"
*** AsBuiltRequired	Boolean	0..1	Returned when the return_fields parameter includes the value "asBuiltRequired"
*** Attribute1	Group	0..1	Returned when the return_fields parameter includes the value "attribute1"
**** AttributeTypeNames	Group	0..1	
***** AttributeTypeName	String(60)	0..n	
**** AttributeType	String	1	Constant: Attribute 1
*** Attribute2	Group	0..1	Returned when the return_fields parameter includes the value "attribute2"
**** AttributeTypeNames	Group	0..1	
***** AttributeTypeName	String(60)	0..n	
**** AttributeType	String	1	Constant: Attribute 2
*** Attribute3	Group	0..1	Returned when the return_fields parameter includes the value "attribute3"
**** AttributeTypeNames	Group	0..1	
***** AttributeTypeName	String(60)	0..n	
**** AttributeType	String	1	Constant: Attribute 3
*** Attribute4	Group	0..1	Returned when the return_fields parameter includes the value "attribute4"
**** AttributeTypeNames	Group	0..1	
***** AttributeTypeName	String(60)	0..n	

**** AttributeType	String	1	Constant: Attribute 4
*** Author	String(60)	0..1	Returned when the return_fields parameter includes the value "author"
*** AuthorisedBy	String(60)	0..1	Returned when the return_fields parameter includes the value "authorisedBy"
*** Category	String(50)	0..1	Returned when the return_fields parameter includes the value "category"
*** Check1	Boolean	0..1	Returned when the return_fields parameter includes the value "check1"
*** Check2	Boolean	0..1	Returned when the return_fields parameter includes the value "check2"
*** Comments	String(1024)	0..1	Returned when the return_fields parameter includes the value "comments"
*** Comments2	String(1024)	0..1	Returned when the return_fields parameter includes the value "comments2"
*** Confidential	Boolean	0..1	Returned when the return_fields parameter includes the value "confidential"
*** ContractDeliverable	Boolean	0..1	Returned when the return_fields parameter includes the value "contractDeliverable"
*** ContractNumber	String(50)	0..1	Returned when the return_fields parameter includes the value "contractnumber"
*** ContractorDocumentNumber	String(50)	0..1	Returned when the return_fields parameter includes the value "contractordocumentnumber"
*** ContractorRevision	String(15)	0..1	Returned when the return_fields parameter includes the value "contractorrev"
*** Current	Boolean	0..1	Returned when the return_fields parameter includes the value "current" Determines whether this revision of the document is the current revision
*** Date1	String	0..1	Returned when the return_fields parameter includes the value "date1" UTC format
*** Date2	String	0..1	Returned when the return_fields parameter includes the value "date2" UTC format
*** DateCreated	String	0..1	Returned when the return_fields parameter includes the value "received" UTC format
*** DateForReview	String	0..1	Returned when the return_fields parameter includes the value "forreview" UTC format
*** DateModified	String	0..1	Returned when the return_fields parameter includes the value "registered" UTC format
*** DateReviewed	String	0..1	Returned when the return_fields parameter includes the value "reviewed" UTC format
*** Discipline	String(50)	0..1	Returned when the return_fields parameter includes the value "discipline"
*** DocumentNumber	String(210)	0..1	Returned when the return_fields parameter includes the value "docno"
*** DocumentStatus	String(40)	0..1	Returned when the return_fields parameter includes the value "statusid"
*** DocumentType	String(50)	0..1	Returned when the return_fields parameter includes the value "doctype"
*** FileSize	Long(64 bit)	0..1	Returned when the return_fields parameter includes the value "fileSize"
*** Filename	String(255)	0..1	Returned when the return_fields parameter includes the value "filename"
*** FileType	String(3)	0..1	Returned when the return_fields parameter includes the value "fileType"
*** MarkupLastModifiedDate	String	0..1	Returned when the return_fields parameter includes the value "markupLastModifiedDate" UTC format
*** MilestoneDate		0..1	Returned when the return_fields parameter includes the value "milestonedate" UTC format
*** NumberOfMarkups	Integer	0..1	Returned when the return_fields parameter includes the value "numberOfMarkups"
*** PackageNumber	String(50)	0..1	Returned when the return_fields parameter includes the value "packagenumber"
*** PercentComplete	Integer(0-100)	0..1	Returned when the return_fields parameter includes the value "percentComplete"
*** PlannedSubmissionDate	String	0..1	Returned when the return_fields parameter includes the value "plannedsubmissiondate" UTC format
*** PrintSize	String(15)	0..1	Returned when the return_fields parameter includes the value "printSize"
*** ProjectField1	String(120)	0..1	Returned when the return_fields parameter includes the value "projectField1"
*** ProjectField2	String(120)	0..1	Returned when the return_fields parameter includes the value "projectField2"
*** ProjectField3	String(120)	0..1	Returned when the return_fields parameter includes the value "projectField3"

*** Reference	String(120)	0..1	Returned when the return_fields parameter includes the value "reference"
*** ReviewSource	String(50)	0..1	Returned when the return_fields parameter includes the value "reviewSource"
*** ReviewStatus	String(50)	0..1	Returned when the return_fields parameter includes the value "reviewstatus"
*** Revision	String(15)	0..1	Returned when the return_fields parameter includes the value "revision"
*** RevisionDate	String	0..1	Returned when the return_fields parameter includes the value "revisiondate" UTC format
*** Scale	String(9)	0..1	Returned when the return_fields parameter includes the value "scale"
*** SelectList1	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist1"
*** SelectList2	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist2"
*** SelectList3	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist3"
*** SelectList4	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist4"
*** SelectList5	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist5"
*** SelectList6	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist6"
*** SelectList7	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist7"
*** SelectList8	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist8"
*** SelectList9	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist9"
*** SelectList10	String(60)	0..1	Returned when the return_fields parameter includes the value "selectlist10"
*** TagNumber	String(50)	0..1	Returned when the return_fields parameter includes the value "tagNumber"
*** Title	String(120)	0..1	Returned when the return_fields parameter includes the value "title"
*** ToClientDate	String	0..1	Returned when the return_fields parameter includes the value "toclient" UTC format
*** TrackingId	String	0..1	The tracking id for a document is a unique identifier for all version of a specific document. When a document is first registered into Aconex, a unique identifier is generated and this value is used assigned to all document revisions of that document. One can use this tracking identifier to create a chain of documents.
*** VersionNumber	Integer	0..1	The version number of a document provides information relating to the sequence in which the document was registered within the chain of revisions. For all documents with the same Tracking Id, the version number will be an integer value starting from 1. e.g. When a document is newly registered into Aconex, its version number will be 1. When it is superseded, a new document with a version number of 2 will be created. Both document revisions will be accessible using their respective document Id's.
*** VdrCode	String(50)	0..1	Returned when the return_fields parameter includes the value "vdrCode"
*** VendorDocumentNumber	String(50)	0..1	Returned when the return_fields parameter includes the value "vendordocumentnumber"
*** VendorRevision	String(15)	0..1	Returned when the return_fields parameter includes the value "vendorrev"

Sample response of NUMBER_LIMITED or FULL search type

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RegisterSearch TotalResults = "2">
  <SearchResults>
    <Document DocumentId = "1879099233">
      <DateApproved></DateApproved>
      <AsBuiltRequired>>false</AsBuiltRequired>
      <Attribute1>
        <AttributeTypeNames>
          <AttributeTypeName>North Tower
Hotel</AttributeTypeName>
          <AttributeTypeName>South Tower
Hotel</AttributeTypeName>

```

```
        </AttributeTypeNames>
        <AttributeType>ATTRIBUTE1</AttributeType>
    </Attribute1>
    <Attribute2>
        <AttributeTypeNames>
            <AttributeTypeName>WP2.03 - Metal
Decking</AttributeTypeName>
            <AttributeTypeName>WP2.02 - Tan</AttributeTypeName>
        </AttributeTypeNames>
        <AttributeType>ATTRIBUTE2</AttributeType>
    </Attribute2>
    <Attribute3>
        <AttributeTypeNames/>
        <AttributeType>ATTRIBUTE3</AttributeType>
    </Attribute3>
    <Attribute4>
        <AttributeTypeNames/>
        <AttributeType>ATTRIBUTE4</AttributeType>
    </Attribute4>
    <Author>Majestic Builders</Author>
    <AuthorisedBy></AuthorisedBy>
    <Category></Category>
    <Check1>>false</Check1>
    <Check2>>false</Check2>
    <Comments></Comments>
    <Comments2></Comments2>
    <Confidential>>false</Confidential>
    <ContractDeliverable>>false</ContractDeliverable>
    <ContractorDocumentNumber></ContractorDocumentNumber>
    <ContractorRevision></ContractorRevision>
    <Current>>true</Current>
    <Date1></Date1>
    <Date2></Date2>
    <DateCreated></DateCreated>
    <DateForReview></DateForReview>
    <DateModified>2009-09-29T23:23:51.533Z</DateModified>
    <DateReviewed></DateReviewed>
    <Discipline>Architectural</Discipline>
    <DocumentNumber>05-034_A700-1</DocumentNumber>
    <DocumentStatus>Approved</DocumentStatus>
    <DocumentType>Drawing</DocumentType>
    <FileSize>420387</FileSize>
    <Filename>N05-034_A700-3.pdf</Filename>
    <FileType>pdf</FileType>
    <MarkupLastModifiedDate></MarkupLastModifiedDate>
    <NumberOfMarkups>0</NumberOfMarkups>
    <PercentComplete>100</PercentComplete>
    <PrintSize>A0</PrintSize>
    <ProjectField1></ProjectField1>
    <ProjectField2></ProjectField2>
    <ProjectField3></ProjectField3>
    <Reference>Compare</Reference>
    <ReviewSource>None</ReviewSource>
```

```
<ReviewStatus>None</ReviewStatus>
<Revision>7</Revision>
<RevisionDate>2007-10-23T14:00:00.000Z</RevisionDate>
<Scale>0:0</Scale>
<TagNumber></TagNumber>
<Title>Main Lobby and Reception</Title>
<ToClientDate></ToClientDate>
<Vdrcode></Vdrcode>
<VendorDocumentNumber></VendorDocumentNumber>
<VendorRevision></VendorRevision>
</Document>
<Document DocumentId = "1879099236">
  <DateApproved>2009-10-14T13:00:00.000Z</DateApproved>
  <AsBuiltRequired>true</AsBuiltRequired>
  <Attribute1>
    <AttributeTypeNames>
      <AttributeTypeName>Retail Building</AttributeTypeName>
    </AttributeTypeNames>
    <AttributeType>ATTRIBUTE1</AttributeType>
  </Attribute1>
  <Attribute2>
    <AttributeTypeNames>
      <AttributeTypeName>WP1.04 - Ground Works (inc. Grade
Concrete Slab)</AttributeTypeName>
      <AttributeTypeName>WP4.11 - Intenal
Fitout</AttributeTypeName>
    </AttributeTypeNames>
    <AttributeType>ATTRIBUTE2</AttributeType>
  </Attribute2>
  <Attribute3>
    <AttributeTypeNames>
      <AttributeTypeName>Attrib3-Val1</AttributeTypeName>
      <AttributeTypeName>Attrib3-Val3</AttributeTypeName>
    </AttributeTypeNames>
    <AttributeType>ATTRIBUTE3</AttributeType>
  </Attribute3>
  <Attribute4>
    <AttributeTypeNames>
      <AttributeTypeName>Attrib4-Val3</AttributeTypeName>
      <AttributeTypeName>Attrib4-Val2</AttributeTypeName>
    </AttributeTypeNames>
    <AttributeType>ATTRIBUTE4</AttributeType>
  </Attribute4>
  <Author>Splice Architecture</Author>
  <AuthorisedBy>AT</AuthorisedBy>
  <Category>Cat001</Category>
  <Check1>true</Check1>
  <Check2>>false</Check2>
  <Comments>Look at this!</Comments>
  <Comments2>Look at that!</Comments2>
  <Confidential>>false</Confidential>
  <ContractDeliverable>>false</ContractDeliverable>
  <ContractNumber>CN001</ContractNumber>
```

```
<ContractNumber>CN002</ContractNumber>
<ContractorDocumentNumber>ABCD001</ContractorDocumentNumber>
<ContractorRevision>GA</ContractorRevision>
<Current>>true</Current>
<Date1>2009-10-25T13:00:00.000Z</Date1>
<Date2>2009-10-26T13:00:00.000Z</Date2>
<DateCreated>2007-05-11T14:00:00.000Z</DateCreated>
<DateForReview>2009-10-06T13:00:00.000Z</DateForReview>
<DateModified>2009-10-05T01:11:05.237Z</DateModified>
<DateReviewed>2009-10-08T13:00:00.000Z</DateReviewed>
<Discipline>Architectural</Discipline>
<DocumentNumber>581-AWD-031</DocumentNumber>
<DocumentStatus>Approved</DocumentStatus>
<DocumentType>Drawing</DocumentType>
<FileSize>104724</FileSize>
<Filename>581-AWD-278C581-AWD-278C.pdf</Filename>
<FileType>pdf</FileType>
<MarkupLastModifiedDate></MarkupLastModifiedDate>
<NumberOfMarkups>0</NumberOfMarkups>
<PackageNumber>P002</PackageNumber>
<PercentComplete>100</PercentComplete>
<PrintSize>A4</PrintSize>
<ProjectField1>PF001</ProjectField1>
<ProjectField2>PF002</ProjectField2>
<ProjectField3>PF003</ProjectField3>
<Reference>Compare</Reference>
<ReviewSource>None</ReviewSource>
<ReviewStatus>None</ReviewStatus>
<Revision>G</Revision>
<RevisionDate>2007-07-11T14:00:00.000Z</RevisionDate>
<Scale>0:0</Scale>
<SelectList1>Evaluation</SelectList1>
<TagNumber>TN001</TagNumber>
<Title>Lobby Floor Plan</Title>
<ToClientDate>2009-10-12T13:00:00.000Z</ToClientDate>
<Vdrcode></Vdrcode>
<VendorDocumentNumber>VD002</VendorDocumentNumber>
<VendorRevision>G</VendorRevision>
<VersionNumber>2</VersionNumber>
<TrackingId>3245</TrackingId>
</Document>
```

```
</SearchResults>
</RegisterSearch>
```

Sample response of a PAGED search type

```
<RegisterSearch TotalResultsOnPage="26" TotalResults="76" TotalPages="2"
  PageSize="50" CurrentPage="2">
  <SearchResults>
    <Document DocumentId="3289" />
    <Document DocumentId="3019" />
    <Document DocumentId="3018" />
    <Document DocumentId="3017" />
    <Document DocumentId="3016" />
    <Document DocumentId="3430" />
    <Document DocumentId="3609" />
    <Document DocumentId="4096" />
    <Document DocumentId="98" />
    <Document DocumentId="97" />
    <Document DocumentId="2778" />
    <Document DocumentId="2777" />
    <Document DocumentId="106" />
    <Document DocumentId="2776" />
    <Document DocumentId="2775" />
    <Document DocumentId="451" />
    <Document DocumentId="450" />
    <Document DocumentId="2859" />
    <Document DocumentId="2856" />
    <Document DocumentId="2847" />
    <Document DocumentId="3710" />
    <Document DocumentId="2850" />
    <Document DocumentId="3028" />
    <Document DocumentId="449" />
    <Document DocumentId="447" />
    <Document DocumentId="3051" />
  </SearchResults>
</RegisterSearch>
```

Sample response of a COUNT_ONLY search type

```
<RegisterSearch TotalResults="76" />
```

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

The authorizing user (specified in the request header) must have the secured asset to search registered documents.

Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the register 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.

Document metadata will **not** be returned if the document is both marked "Confidential" and the authorizing user is **not** on that document's Access List.

Further reading

Introductory notes about Lucene queries may be found here:

http://lucene.apache.org/core/3_5_0/queryparsersyntax.html

Related APIs

- View Document Schema
- View Document Event Log
- List Documents
- Download Document FileCallSend SMSAdd to Skype
You'll need Skype CreditFree via Skype

View Document Metadata

The service retrieves the detailed metadata for a particular document in the specified project.

URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/register/{documentid}/metadata
```

Parameters

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

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aui.aconex.com/api/projects/1879048400/register/1879093137/metadata
```

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
RegisterDocument	Group	1	
DocumentId	String	1	
* AsBuiltRequired	Boolean	1	
* Attribute1	Group	1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: ATTRIBUTE1
* Attribute2	Group	1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: ATTRIBUTE2
* Attribute3	Group	1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: ATTRIBUTE3
* Attribute4	Group	1	
** AttributeTypeNames	Group	1	
*** AttributeTypeName	String(200)	0..n	
** AttributeType	String	1	Constant: ATTRIBUTE4
* Author	String(50)	0..1	
* AuthorisedBy	String(50)	0..1	
* Category	String(50)	0..1	
* Check1	Boolean	1	
* Check2	Boolean	1	
* Comments	String(50)	0..1	
* Comments2	String(50)	0..1	
* Confidential	Boolean	1	
* ConfidentialUserAccessList	Group	0..1	
** UserId	String	1..n	
* ContractDeliverable	Boolean	1	
* ContractNumber	String(50)	0..n	
* ContractorDocumentNumber	String(50)	0..1	
* ContractorRevision	String(50)	0..1	
* Date1	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* Date2	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* DateCreated	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* DateForReview	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* DateModified	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* DateReviewed	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* Discipline	String(50)	0..1	
* DocumentNumber	String(210)	0..1	

* DocumentStatus	String(50)	0..1	
* DocumentType	String(50)	0..1	
* FileSize	Integer(32-bit signed)	0..1	
* Filename	String(50)	0..1	
* PackageNumber	String(50)	0..n	
* PercentComplete	Integer(0 - 100)	0..1	
* PrintSize	String(50)	0..1	
* ProjectField1	String(50)	0..1	
* ProjectField2	String(50)	0..1	
* ProjectField3	String(50)	0..1	
* Received	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* Reference	String(50)	0..1	
* Registered	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* Reviewed	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* ReviewSource	String(50)	0..1	
* ReviewStatus	String(50)	0..1	
* Revision	String(50)	0..1	
* RevisionDate	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* Scale	String(50)	0..1	
* SelectList1	String(60)	0..1	
* SelectList2	String(60)	0..1	
* SelectList3	String(60)	0..1	
* SelectList4	String(60)	0..1	
* SelectList5	String(60)	0..1	
* SelectList6	String(60)	0..1	
* SelectList7	String(60)	0..1	
* SelectList8	String(60)	0..1	
* SelectList9	String(60)	0..1	
* SelectList10	String(60)	0..1	
* TagNumber	String(50)	0..1	
* Title	String(50)	0..1	
* ToClientDate	DateTime	1	UTC format yyyy-MM-dd'T'hh:mm:ss.SSSZ'
* Vdrcode	String(50)	0..1	
* VendorDocumentNumber	String(50)	0..1	
* VendorRevision	String(50)	0..1	

Note: Only Confidential documents (<Confidential> = true) will have a ConfidentialUserAccessList.

Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RegisterDocument DocumentId = "1879099753">
  <DateApproved>2010-01-15T10:41:25.700Z</DateApproved>
  <AsBuiltRequired>true</AsBuiltRequired>
  <Attribute1>
    <AttributeTypeNames>
      <AttributeTypeName>ATTR1-001</AttributeTypeName>
    </AttributeTypeNames>
    <AttributeType>ATTRIBUTE1</AttributeType>
  </Attribute1>
  <Attribute2>
    <AttributeTypeNames>
      <AttributeTypeName>ATTR2-002</AttributeTypeName>
    </AttributeTypeNames>
```



```
<AttributeType>ATTRIBUTE2</AttributeType>
</Attribute2>
<Attribute3>
  <AttributeTypeNames>
    <AttributeName>ATTR3-003</AttributeName>
  </AttributeTypeNames>
  <AttributeType>ATTRIBUTE3</AttributeType>
</Attribute3>
<Attribute4>
  <AttributeTypeNames>
    <AttributeName>ATTR4-004</AttributeName>
  </AttributeTypeNames>
  <AttributeType>ATTRIBUTE4</AttributeType>
</Attribute4>
<Author>Stephen King</Author>
<AuthorisedBy>Me Myself and Irene</AuthorisedBy>
<Category>CAT001</Category>
<Check1>true</Check1>
<Check2>true</Check2>
<Comments>This is a comment</Comments>
<Comments2>This is second comment</Comments2>
<Confidential>>false</Confidential>
<ConfidentialUserAccessList/>
<ContractDeliverable>true</ContractDeliverable>
<ContractNumber>CN001</ContractNumber>
<ContractorDocumentNumber>CDN001</ContractorDocumentNumber>
<ContractorRevision>A</ContractorRevision>
<Date1>2010-01-14T13:00:00.000Z</Date1>
<Date2>2010-01-14T13:00:00.000Z</Date2>
<DateCreated>2010-01-15T10:41:25.700Z</DateCreated>
<DateForReview>2010-01-16T10:40:32.000Z</DateForReview>
<DateModified>2010-01-14T23:41:31.173Z</DateModified>
<DateReviewed>2010-01-13T10:40:32.000Z</DateReviewed>
<Discipline>Architectural</Discipline>
<DocumentNumber>API Document 20100115104125760</DocumentNumber>
<DocumentStatus>For Information</DocumentStatus>
<DocumentType>Sample</DocumentType>
<FileSize>5632</FileSize>
<Filename>TanTest.xls</Filename>
<MilestoneDate>2010-01-16T10:40:32.000Z</MilestoneDate>
<PackageNumber>PN001</PackageNumber>
<PercentComplete>75</PercentComplete>
<PlannedSubmissionDate>2010-01-16T10:40:32.000Z</PlannedSubmissionDate>
<PrintSize>A4</PrintSize>
<ProjectField1>First random string field</ProjectField1>
<ProjectField2>Second random string field</ProjectField2>
<ProjectField3>Third random string field</ProjectField3>
<Reference>My reference</Reference>
<ReviewSource>None</ReviewSource>
<ReviewStatus>None</ReviewStatus>
<Revision>A</Revision>
<RevisionDate>2010-01-15T10:41:25.700Z</RevisionDate>
<Scale>240:1</Scale>
<SelectList1>First Select Option</SelectList1>
<SelectList2>Second Select Option</SelectList2>
<TagNumber>TAG You're It</TagNumber>
<Title>Test Create Document 20100115104125780</Title>
<ToClientDate>2010-01-16T10:40:32.000Z</ToClientDate>
<Vdrcode>VDR001</Vdrcode>
```

<VendorDocumentNumber>MyVendor VDN001</VendorDocumentNumber>

```
<VendorRevision>A</VendorRevision>
</RegisterDocument>
```

Error Codes Specific to the Service

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

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 register schema beforehand to obtain the list of active fields.

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 retrieve the metadata if the document is both marked as "Confidential" and the authorizing user is not on that document's Access List.

Related APIs

- View Document Schema
- List Documents
- Download Document Attachment

Download Document File

The service retrieves the backing file associated with the specified document.

Notes:

1. If the file contains markups, the marked-up version can be downloaded by adding the optional keyword "markedup" to the URL.
2. Marked up backing files are returned in PDF file format. Backing files without markup are retrieved in their original format.
3. The **filename** of the document 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}/register/{documentid}/[markedu
p]
```

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/register/1879099264/markedup
```

Response Fields

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

Sample response

Not applicable.

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
CANNOT_DOWNLOAD_EMPTY_DOCUMENT	Cannot download a registered document which does not have a backing file	400 Bad Request

Prerequisites

Required Permissions

The authorizing user (specified in the request header) must have the secured asset to search registered documents.

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.

The authorizing user cannot download the backing file if the document is both marked as "Confidential" and the authorizing user is **not** on that document's Access List.

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

Related APIs

- List Documents
- View Document Metadata
- View Document Event Log

View Document Event Log

The service retrieves the Event Log for the specified document.

Note: The Event Log is common to a family of document revisions.

URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/register/{documentid}/eventlog
```

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/register/1879099264/eventlog
```

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
ViewEventLog	Group	1	
TotalResults	Attribute Integer	1	The number of events found for the specified document
* SearchResults	Group	1	
** CDEventLog	Group	0..n	
** EventType	Attribute String	1	One of: <ul style="list-style-type: none">• Authorization• Maintenance• Management• Modification• Notification• Print• Send• View
*** Event	String(No Limit)	1	Specific details of the Event. Sample values include: <ul style="list-style-type: none">• Locked• Registered• Notified of Change to Shared Document• Viewed using Online Viewer• Received (From TRANSMIT-000001) No action taken (same document already exists in register)
*** EventTime	String	1	UTC format
*** Organization	String(60)	1	The organization that initiated the Event
*** User	String(61)	1	The user who initiated the Event (First initial + " " + Last name)
*** Revision	String(30)	1	The revision of the document
*** VersionNumber	String(30)	1	The version number of the document

Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>  
<ViewEventLog TotalResults = "11">
```

```
<SearchResults>
  <CDEventLog EventType = "Modification">
    <Event>Auto Registered (From ENZ-TRANSMIT-000083)</Event>
    <EventTime>2007-10-11T03:53:10.313Z</EventTime>
    <Organization>Majestic Builders</Organization>
    <Revision>G</Revision>
    <User>D Controller</User>
    <VersionNumber>8</VersionNumber>
  </CDEventLog>
  <CDEventLog EventType = "Modification">
    <Event>Auto Registered (From ENZ-TRANSMIT-000082)</Event>
    <EventTime>2007-10-11T02:34:38.583Z</EventTime>
    <Organization>Majestic Builders</Organization>
    <Revision>F</Revision>
    <User>P O'Leary</User>
    <VersionNumber>7</VersionNumber>
  </CDEventLog>
  <CDEventLog EventType = "Send">
    <Event>Sent with transmittal TRANSMIT-000042</Event>
    <EventTime>2006-07-03T08:30:01.067Z</EventTime>
    <Organization>Majestic Builders</Organization>
    <Revision>C</Revision>
    <User>P O'Leary</User>
    <VersionNumber>4</VersionNumber>
  </CDEventLog>
  <CDEventLog EventType = "Send">
    <Event>Sent with transmittal TRANSMIT-000041</Event>
    <EventTime>2006-07-03T08:10:26.647Z</EventTime>
    <Organization>Majestic Builders</Organization>
    <Revision>C</Revision>
    <User>P O'Leary</User>
    <VersionNumber>4</VersionNumber>
  </CDEventLog>
  <CDEventLog EventType = "Modification">
    <Event>Edited</Event>
    <EventTime>2006-07-03T08:09:39.087Z</EventTime>
    <Organization>Majestic Builders</Organization>
    <Revision>C</Revision>
    <User>P O'Leary</User>
    <VersionNumber>4</VersionNumber>
  </CDEventLog>
  <CDEventLog EventType = "Modification">
    <Event>Edited (Status Changed to 'No Longer In Use')</Event>
    <EventTime>2006-07-03T08:09:39.087Z</EventTime>
    <Organization>Majestic Builders</Organization>
    <Revision>B</Revision>
    <User>P O'Leary</User>
    <VersionNumber>3</VersionNumber>
  </CDEventLog>
  <CDEventLog EventType = "Print">
    <Event>Print Requested (1879048203)</Event>
    <EventTime>2006-04-04T16:00:55.837Z</EventTime>
    <Organization>Majestic Builders</Organization>
    <Revision>B</Revision>
    <User>P O'Leary</User>
    <VersionNumber>2</VersionNumber>
  </CDEventLog>
  <CDEventLog EventType = "Send">
    <Event>Sent with TRANSMIT-000028</Event>
```

```
<EventTime>2005-12-07T00:44:48.603Z</EventTime>
<Organization>Majestic Builders</Organization>
<Revision>B</Revision>
<User>P O'Leary</User>
<VersionNumber>2</VersionNumber>
</CDEventLog>
<CDEventLog EventType = "Send">
  <Event>Sent with TRANSMIT-000016</Event>
  <EventTime>2005-11-14T07:22:19.130Z</EventTime>
  <Organization>Majestic Builders</Organization>
  <Revision>B</Revision>
  <User>P O'Leary</User>
  <VersionNumber>2</VersionNumber>
</CDEventLog>
<CDEventLog EventType = "Modification">
  <Event>Auto Registered (From TRANSMIT-000012)</Event>
  <EventTime>2005-10-08T04:40:17.607Z</EventTime>
  <Organization>Majestic Builders</Organization>
  <Revision>B</Revision>
  <User>P O'Leary</User>
  <VersionNumber>2</VersionNumber>
</CDEventLog>
<CDEventLog EventType = "Modification">
  <Event>Auto Registered (From TRANSMIT-000009)</Event>
  <EventTime>2005-10-08T04:25:44.830Z</EventTime>
  <Organization>Majestic Builders</Organization>
  <Revision>A</Revision>
  <User>P O'Leary</User>
  <VersionNumber>1</VersionNumber>
</CDEventLog>
```

```
</SearchResults>
</ViewEventLog>
```

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 the secured asset to search registered documents.

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.

Event logs will **not** be returned if the document is both marked "Confidential" and the authorizing user is **not** on that document's Access List.

Related APIs

- List Documents

Register Document

The service creates a new document in the registry of the specified project.

URL structure

```
HTTP POST: https://{hostname}/api/projects/{projectid}/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"
```

As the request body is multipart/mixed, a boundary identifier must be specified in the request header. This boundary is used to separate data of

different types, e.g. text and binary.

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
Document	Group	1	
* DocumentNumber*	String(210)	1	
* DocumentTypeld*	Integer(32-bit signed)	1	
* Revision*	String(15)	1	
* HasFile*	Boolean	1	Flag to indicate whether this document contains an associated backing file. If true, then the filename and file contents must be included in the request.
* AccessList+	String(50)	0..n	A list of valid userids representing users who are to be included in this document's Confidential Access List. If zero users are specified, then the document will not be made confidential.
* AsBuiltRequired+	Boolean	0..1	
* Attribute1+	String(50)	0..n	
* Attribute2+	String(50)	0..n	
* Attribute3+	String(50)	0..n	
* Attribute4+	String(50)	0..n	
* Author+	String(50)	0..1	
* AuthorisedBy+	String(50)	0..1	
* Category+	String(50)	0..1	
* Check1+	String(50)	0..1	
* Check2+	String(50)	0..1	
* Comments+	String(50)	0..1	
* Comments2+	String(50)	0..1	
* ContractNumber+	String(50)	0..n	
* ContractDeliverable+	String(50)	0..1	
* ContractorDocumentNumber+	String(50)	0..1	
* ContractorRev+	String(50)	0..1	
* Date1+	String(50)	0..1	
* Date2+	String(50)	0..1	
* DateApproved+	String(50)	0..1	
* DateCreated+	String(50)	0..1	
* DateForReview+	String(50)	0..1	
* DateModified+	String(50)	0..1	
* DateReviewed+	String(50)	0..1	
* Discipline+	String(50)	0..1	
* DocumentStatusId+	String(50)	0..1	
* MilestoneDate+	String(50)	0..1	
* PackageNumber+	String(50)	0..n	
* ProjectField1+	String(50)	0..1	
* ProjectField2+	String(50)	0..1	
* ProjectField3+	String(50)	0..1	
* Reference+	String(50)	0..1	
* RevisionDate+	String(50)	0..1	
* Scale+	String(50)	0..1	
* SelectList1+	String(60)	0..1	
* SelectList2+	String(60)	0..1	
* SelectList3+	String(60)	0..1	
* SelectList4+	String(60)	0..1	

* SelectList5+	String(60)	0..1	
* SelectList6+	String(60)	0..1	
* SelectList7+	String(60)	0..1	
* SelectList8+	String(60)	0..1	
* SelectList9+	String(60)	0..1	
* SelectList10+	String(60)	0..1	
* TagNumber+	String(50)	0..1	
* Title+	String(120)	0..1	
* ToClientDate+	String(50)	0..1	
* UploadDate+	String(50)	0..1	
* UploadedBy+	String(50)	0..1	
* Vdrcode+	String(50)	0..1	
* VendorDocumentNumber+	String(50)	0..1	
* VendorRev+	String(50)	0..1	

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

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

Note that not all document fields may be enabled; again this depends on project configuration.

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 local files

A local file may be specified as the backing file to the registered document being registered.

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 a limit of 1 local file to specify, per registered document.

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

Sample request

```
https://app8.engr.acx:2001/api/projects/1879048422/register

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

[HTTP Post content]
--myboundary

<Document>
<DocumentNumber>API Document 2010-02-02 10:17am</DocumentNumber>
```

<DocumentTypeId>1879048227</DocumentTypeId>
<Revision>A</Revision>
<AsBuiltRequired>>true</AsBuiltRequired>
<Attribute1>ATTR1-001</Attribute1>
<Attribute1>ATTR1-002</Attribute1>
<Attribute2>ATTR2-001</Attribute2>
<Attribute2>ATTR2-002</Attribute2>
<Attribute3>ATTR3-001</Attribute3>
<Attribute3>ATTR3-002</Attribute3>
<Attribute4>ATTR4-001</Attribute4>
<Attribute4>ATTR4-002</Attribute4>
<Author>Stephen King</Author>
<AuthorisedBy>Me Myself and Irene</AuthorisedBy>
<Category>CAT001</Category>
<Check1>>true</Check1>
<Check2>>true</Check2>
<Comments>This is a comment</Comments>
<Comments2>This is second comment</Comments2>
<ContractNumber>CN001</ContractNumber>
<ContractNumber>CN002</ContractNumber>
<ContractNumber>CN003</ContractNumber>
<ContractDeliverable>>true</ContractDeliverable>
<ContractorDocumentNumber>CDN001</ContractorDocumentNumber>
<ContractorRev>A</ContractorRev>
<Date1>2009-11-05</Date1>
<Date2>2009-11-05</Date2>
<DateApproved>2009-11-05T12:00:00.000Z</DateApproved>
<DateCreated>2009-11-05T12:00:00.000Z</DateCreated>
<DateForReview>2009-11-07T12:00:00.000Z</DateForReview>
<DateModified>2009-11-05T12:00:00.000Z</DateModified>
<DateReviewed>2009-11-03T12:00:00.000Z</DateReviewed>
<Discipline>Architectural</Discipline>
<DocumentStatusId>1879048196</DocumentStatusId>
<HasFile>>true</HasFile>
<MilestoneDate>2009-11-07T12:00:00.000Z</MilestoneDate>
<PackageNumber>PN001</PackageNumber>
<PackageNumber>PN002</PackageNumber>
<PackageNumber>PN003</PackageNumber>
<PercentComplete>75</PercentComplete>
<PlannedSubmissionDate>2009-11-07</PlannedSubmissionDate>
<PrintSize>A4</PrintSize>
<ProjectField1>First random string field</ProjectField1>
<ProjectField2>Second random string field</ProjectField2>
<ProjectField3>Third random string field</ProjectField3>
<Reference>My reference</Reference>
<RevisionDate>2009-11-05T12:00:00.000Z</RevisionDate>
<Scale>240:1</Scale>
<SelectList1>select1 option<SelectList1>
<SelectList2>select2 option<SelectList2>
<TagNumber>TAG You're It</TagNumber>
<Title>Test Create Document 2009-11-05 10:17am</Title>
<ToClientDate>2009-11-07T12:00:00.000Z</ToClientDate>
<UploadDate>2009-11-05T12:00:00.000Z</UploadDate>

yªÖ¶<¿8µ†í?öVpyú@™Çòt?eqdóÊ×S
-#W3ÈeÝŽ!¥!çðã,
;µ/O<7"è:ýX¼æ×FVû9Wum¶²...6Km;Ê @Ã?J3?ŽFFMš#•] h@*müR
...6ý, -ÍÆr*Û>:Ûç6]0-GÀ¿ViàI{ }P=m¿~Ìg;íÛ?kh³OI{"zO=i¼-«ÒŽ1êêió3&-O,0³ýÊ°-
kùE{úq+í¿ÎkùÃ\$>M{G:³Q!Y'X;Òôc{&KÝÓ'Øµ
Ö†ÖÓ"±@È?ù@z{páóG"è?>u8&4DLç@:ÚtÃ^~+ž}#Àg²;-
HO>1ræèêJ{f«é(µ9ÖÑöfWZÛ3ää^àclµmŽt'e³9Ik>§G/?uZmlÑÚ@'ánGj³!hít9w>I¥6
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š"¶-5σ
UúfI;±Û!,?ª´k+ šSks?w'PVÔ|Ê
Úfèó(µ=]æ~4)jSC
š;Öæ†Ziiä~yÐ¼fHmèD-: `Ô|0iV?xih18Dm:8\$-
,Z>¿í|Öú¥Žt4ðσ6E•-f*k+fjÐ|@ÖÛ|Ðæ°yñ™>E<5ðoÔfÈ}ÒÑÀÈ%#O?FÎÛŠ'-E<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--

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
RegisterDocumentResult	Group	1	
*RegisterDocumentResult	String	1	The documentId of the registered document just created

Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RegisterDocumentResult>
  <RegisterDocument>1879099859</RegisterDocument>
</RegisterDocumentResult>
```

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
ACCESS_DENIED	The user is not allowed to perform the operation or retrieve the requested data	401

Prerequisites

Required Permissions

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

Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the register 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.

The service does **not** create documents in the authorizing user's Unregistered documents area.

Related APIs

- View Document Schema
- List Documents

Supersede Document

This service allows supersede for a given document in a given project.

Notes:

1. As with all services which allow the attachment of files, a multipart message must be constructed and POST'd to the API. This request should contain XML content describing the document along with a single multi part attachment with the base64 encoded data of the file along with the X-Filename header which specifies the filename if the XML describes the document with a file i.e the HasFile element is set to true.
2. The structure of the request to be sent to this API service is heavily dependent on the response retrieved by the *View Document Metadata* API service. The entity creation fields returned by the service determine the structure of the XML post content and the possible values for those fields. The content type of the request must be set to multipart and the value determining the boundary of each multipart must be specified.
3. Only one file attachment can be provided to the supersede service.

POST Body

The body of this request is dependent on the schema returned in the *View Document Schema* API service as described by the entity creation fields. The conditions described in the schema must be satisfied along with the following:

- The DocumentNumber fields should not be provided in this request as the document number is automatically set from the parent document specified.
- If a file is being specified for the document, then the X-Filename header must be provided and the HasFile element in the POST content should be set to true

Modifying Confidential Access List

A document being superseded may already be confidential and thus have users which are on an access list. For one to be able modify the access list when superseding, they must have the required secured asset to do so. However, if the user performing the request does not have the secured asset to modify the confidential access list but has access to the document, they can still supersede it by providing the same list of users in the access list.

URL structure

```
HTTP POST:
https://{hostname}/api/projects/{projectid}/register/{documentid}/supersede
```

Parameters

Parameters are not applicable for this service

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"
```

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

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
Document	Group	1	
* DocumentTypeId*	Integer(32-bit signed)	1	
* Revision*	String(15)	1	
* HasFile*	Boolean	1	Flag to indicate whether this document contains an associated backing file. If true, then the filename and file contents must be included in the request.

* AccessList+	String(50)	0..n	A list of valid userids representing users who are to be included in this document's Confidential Access List. If zero users are specified, then the document will not be made confidential.
* AsBuiltRequired+	Boolean	0..1	
* Attribute1+	String(50)	0..n	
* Attribute2+	String(50)	0..n	
* Attribute3+	String(50)	0..n	
* Attribute4+	String(50)	0..n	
* Author+	String(50)	0..1	
* AuthorisedBy+	String(50)	0..1	
* Category+	String(50)	0..1	
* Check1+	String(50)	0..1	
* Check2+	String(50)	0..1	
* Comments+	String(50)	0..1	
* Comments2+	String(50)	0..1	
* ContractNumber+	String(50)	0..n	
* ContractDeliverable+	String(50)	0..1	
* ContractorDocumentNumber+	String(50)	0..1	
* ContractorRev+	String(50)	0..1	
* Date1+	String(50)	0..1	
* Date2+	String(50)	0..1	
* DateApproved+	String(50)	0..1	
* DateCreated+	String(50)	0..1	
* DateForReview+	String(50)	0..1	
* DateModified+	String(50)	0..1	
* DateReviewed+	String(50)	0..1	
* Discipline+	String(50)	0..1	
* DocumentStatusId+	String(50)	0..1	
* MilestoneDate+	String(50)	0..1	
* PackageNumber+	String(50)	0..n	
* ProjectField1+	String(50)	0..1	
* ProjectField2+	String(50)	0..1	
* ProjectField3+	String(50)	0..1	
* Reference+	String(50)	0..1	
* RevisionDate+	String(50)	0..1	
* Scale+	String(50)	0..1	
* SelectList1+	String(60)	0..1	
* SelectList2+	String(60)	0..1	
* SelectList3+	String(60)	0..1	
* SelectList4+	String(60)	0..1	
* SelectList5+	String(60)	0..1	
* SelectList6+	String(60)	0..1	
* SelectList7+	String(60)	0..1	
* SelectList8+	String(60)	0..1	
* SelectList9+	String(60)	0..1	
* SelectList10+	String(60)	0..1	
* TagNumber+	String(50)	0..1	
* Title+	String(120)	0..1	
* ToClientDate+	String(50)	0..1	
* UploadDate+	String(50)	0..1	
* UploadedBy+	String(50)	0..1	
* Vdrcode+	String(50)	0..1	

* VendorDocumentNumber+	String(50)	0..1	
* VendorRev+	String(50)	0..1	

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

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

Note that not all document fields may be enabled; again this depends on project configuration.

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 local files

A local file may be specified as the backing file to the registered document being superseded.

The additional part consist of a filename for the file, followed by an empty line, then the base64 encoded file content. There must also be an empty line between the end of the binary contents and the next boundary.

There is a limit of 1 local file to specify, per registered document.

Header	Type(maxlength)	Cardinality	Notes
X-Filename	String(255)	0..n	Arbitrary filename used to identify the local file attachment

Sample request

```
https://aul.aconex.com/api/projects/1879048422/register/132343434/supersede
```

```
[HTTP Header]
```

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

```
[HTTP Post content]
```

```
--boundary
```

```
<Document>
```

```
<DocumentTypeId>1879048227</DocumentTypeId>
```

```
<Revision>A</Revision>
```

```
<AsBuiltRequired>>true</AsBuiltRequired>
```

```
<Attribute1>ATTR1-001</Attribute1>
```

```
<Attribute1>ATTR1-002</Attribute1>
```

```
<Attribute2>ATTR2-001</Attribute2>
```

```
<Attribute2>ATTR2-002</Attribute2>
```

```
<Attribute3>ATTR3-001</Attribute3>
```

```
<Attribute3>ATTR3-002</Attribute3>
```

```
<Attribute4>ATTR4-001</Attribute4>
```

```
<Attribute4>ATTR4-002</Attribute4>
```

```
<Author>Stephen King</Author>
```

```
<AuthorisedBy>Me Myself and Irene</AuthorisedBy>
```

```
<Category>CAT001</Category>
```

```
<Check1>>true</Check1>
```

```
<Check2>>true</Check2>
```

```
<Comments>This is a comment</Comments>
```

```
<Comments2>This is second comment</Comments2>
```

```
<ContractNumber>CN001</ContractNumber>
```

```
<ContractNumber>CN002</ContractNumber>
```

```
<ContractNumber>CN003</ContractNumber>
```

```
<ContractDeliverable>>true</ContractDeliverable>
```

<ContractorDocumentNumber>CDN001</ContractorDocumentNumber>
<ContractorRev>A</ContractorRev>
<Date1>2009-11-05</Date1>
<Date2>2009-11-05</Date2>
<DateApproved>2009-11-05T12:00:00.000Z</DateApproved>
<DateCreated>2009-11-05T12:00:00.000Z</DateCreated>
<DateForReview>2009-11-07T12:00:00.000Z</DateForReview>
<DateModified>2009-11-05T12:00:00.000Z</DateModified>
<DateReviewed>2009-11-03T12:00:00.000Z</DateReviewed>
<Discipline>Architectural</Discipline>
<DocumentStatusId>1879048196</DocumentStatusId>
<HasFile>>true</HasFile>
<MilestoneDate>2009-11-07T12:00:00.000Z</MilestoneDate>
<PackageNumber>PN001</PackageNumber>
<PackageNumber>PN002</PackageNumber>
<PackageNumber>PN003</PackageNumber>
<PercentComplete>75</PercentComplete>
<PlannedSubmissionDate>2009-11-07</PlannedSubmissionDate>
<PrintSize>A4</PrintSize>
<ProjectField1>First random string field</ProjectField1>
<ProjectField2>Second random string field</ProjectField2>
<ProjectField3>Third random string field</ProjectField3>
<Reference>My reference</Reference>
<RevisionDate>2009-11-05T12:00:00.000Z</RevisionDate>
<Scale>240:1</Scale>
<SelectList1>selectlist1 option</SelectList1>
<SelectList2>selectlist2 option</SelectList2>
<TagNumber>TAG You're It</TagNumber>
<Title>Test Create Document 2009-11-05 10:17am</Title>
<ToClientDate>2009-11-07T12:00:00.000Z</ToClientDate>
<UploadDate>2009-11-05T12:00:00.000Z</UploadDate>
<UploadedBy>The Uploader</UploadedBy>
<VdrCode>VDR001</VdrCode>
<VendorDocumentNumber>MyVendor VDN001</VendorDocumentNumber>
<VendorRev>A</VendorRev>
</Document>
--boundary

X-Filename: localFile01.pdf

bcabcabdebf23213bbaabfdbebb2e3333ba==

--boundary--

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
RegisterDocumentResult	Group	1	
*RegisterDocumentResult	String	1	The documentId of the registered document just created

Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<RegisterDocumentResult>
<RegisterDocument>1879099859</RegisterDocument>
</RegisterDocumentResult>
```

Error Codes Specific to the Service

Status Code	Description	Http Status Code
CANNOT_REGISTER_DOCUMENT	The user performing the request does not have the secured asset to supersede a document	401
ENTITY_NOT_FOUND	The documentId provided by the user in the path does not exist	400
ENTITY_NOT_FOUND_FOR_PROJECT	The document being superseded is not on the specified project	400
ENTITY_NOT_VISIBLE	The document being superseded is not accessible or visible to the user performing the request	401
MALFORMED_XML	The XML post content was not correctly structured	400
FIELD_LENGTH_EXCEEDED	A value provided for one of the fields exceeded its maximum length	400
MUST_PROVIDE_FILE_ATTACHMENT	A file has not been provided in the request when the project mandates a files	400
UNEXPECTED_ATTACHMENT_HEADER_FOUND	An attachment header other than X-Filename was provided	400
NO_ATTACHMENT_HEADERS_FOUND	No attachment headers were found	400
MULTIPLE_ATTACHMENT_HEADERS_FOUND	More than one attachment header found	400
INVALID_ATTACHMENT_IDENTIFIER_VALUE	No value provided for the X-Filename header	400
MISSING_MANDATORY_FIELD	A mandatory field was not provided	400
VALUE_PROVIDED_FIELD_INACTIVE	A value was provided for an inactive field	400
INVALID_FIELD_VALUE	An invalid value was provided for a field	400
DOCUMENT_CONFIDENTIALITY_MODIFICATION_DENIED	Modification to confidential access list denied as user does not have required secured asset	401
ACCESS_LIST_USERS_NOT_ON_ORG	A user on the access list is not in the same org as the user making the request	401
INVALID_ACCESS_LIST_USER_SPECIFIED	An invalid user is exists in the access list provided	400
ACCESS_LIST_USERS_NOT_ON_PROJECT	A user on the access list is not in the project	400
CANNOT_SUPERSEDE_NON_CURRENT_DOCUMENT	Document being supersede is not the most current document	400

CANNOT_SUPERSEDE_LOCKED_DOCUMENT	Document being supersede is Locked by some other user or process	400
ACCESS_DENIED	The user is not allowed to perform the operation or retrieve the requested data	401
INVALID_FIELD_HIERARCHY_VALUES	User has provided values that do not correspond to hierarchy values defined on the project	400

Prerequisites

Required Permissions

The authorizing user (specified in the request header) must have been granted the secured asset to supersede a document. If the user is also modifying the document's confidentiality access list, the the user must also have the secured asset to edit the documents confidentiality.

Preferences/Module Setup

Not every field may be used in the specified project. It is recommended that the user retrieve the register 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.

The parent document being superseded must also be the most current version of the document.

Related APIs

- View Document Schema
- Register Document

Documents Last Updated

The service returns documents including associated document and event log last modified time-stamps for a project.

Notes:

1. If optional parameter 'everythingsince' (representing everything since a time stamp) is provided, the service returns all document ids and associated last updated dates from the hour of the given time stamp in the request.
2. The 'everythingsince' parameter will return any document record which has either a 'lastEventDate' OR 'lastModifiedDate' updated from the hour of the given time stamp in the request..

URL structure

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

Parameters

Parameters	Type(maxlength)	Notes
username	String(61)	mandatory
password		mandatory
everythingsince	String representation of UTC dateTime	optional - date time to hour in UTC format

show_document_history	String	optional - true or false
-----------------------	--------	--------------------------

Examples/Samples

Sample request

```
https://aui.aconex.com/api/projects/1879048400/register/integrity?everythingsince=2001-10-26T19:00:00.000Z&show_document_history=true
```

Sample response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<IntegrityCheckResults>
  <Document id="3707" lastModifiedDate="2007-10-11T03:53:10.313Z"
lastEventDate="2007-10-11T02:34:38.583Z" />
</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
Document		0..n	Document
DocumentId	String	1	Document identifier assigned by the system
lastModifiedDate	xsd:dateTime	1	Last update time for document id in UTC format
lastEventDate	xsd:dateTime	1	Last event logged date time for document id in UTC format
IntegrityCheckResults		1	Document root

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 the secured asset to search registered documents.

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

- Mail Last Updated

Temporary File Upload

This service uploads a file to the temporary file store against an Aconex project.

Notes:

- With this service that allows attachment of files, a multipart message must be constructed and POSTed to the API. This request should contain XML content describing the document along with a single multi part attachment with the base64 encoded data of the file, and the following headers:
 1. A header of '**Content-Disposition**' with value of '**attachment**'
 2. A header of '**X-Filename**' header whose value specifies the filename of the attached file.
- Only one file attachment can be provided to the temporary file upload service

URL Structure

```
HTTP POST: https://hostname:port/api/projects/{projectid}/temporaryFile
```

Parameters

There are no query parameters required for this service.

Request

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.

Element name	Type(maxlength)	Cardinality	Notes
UnregisteredDocument	Group	1	
* DocumentNumber*	String(210)	1	Cannot duplicate a document number used by an existing registered document
* DocumentTypeId	Integer(32-bit signed)	0..1	
* Revision	String(15)	0..1	
* AsBuiltRequired	Boolean	0..1	
* Attribute1	String(50)	0..n	
* Attribute2	String(50)	0..n	
* Attribute3	String(50)	0..n	
* Attribute4	String(50)	0..n	
* Author	String(50)	0..1	
* AuthorisedBy	String(50)	0..1	
* Category	String(50)	0..1	
* Check1	String(50)	0..1	
* Check2	String(50)	0..1	
* Comments	String(50)	0..1	
* Comments2	String(50)	0..1	
* ContractNumber	String(50)	0..n	

* ContractDeliverable	String(50)	0..1	
* ContractorDocumentNumber	String(50)	0..1	
* ContractorRev	String(50)	0..1	
* Date1	String(50)	0..1	
* Date2	String(50)	0..1	
* DateApproved	String(50)	0..1	
* DateCreated	String(50)	0..1	
* DateForReview	String(50)	0..1	
* DateReviewed	String(50)	0..1	
* Discipline	String(50)	0..1	
* DocumentStatusId	String(50)	0..1	
* MilestoneDate	String(50)	0..1	
* PackageNumber	String(50)	0..n	
* PercentageComplete	String(60)	0..1	
* PlannedSubmissionDate	String(50)	0..1	
* PrintSize	String(50)	0..1	
* ProjectField1	String(50)	0..1	
* ProjectField2	String(50)	0..1	
* ProjectField3	String(50)	0..1	
* Reference	String(50)	0..1	
* RevisionDate	String(50)	0..1	
* Scale	String(50)	0..1	
* SelectList1	String(60)	0..1	
* SelectList2	String(60)	0..1	
* SelectList3	String(60)	0..1	
* SelectList4	String(60)	0..1	
* SelectList5	String(60)	0..1	
* SelectList6	String(60)	0..1	
* SelectList7	String(60)	0..1	
* SelectList8	String(60)	0..1	
* SelectList9	String(60)	0..1	
* SelectList10	String(60)	0..1	
* TagNumber	String(50)	0..1	
* Title	String(120)	0..1	
* ToClientDate	String(50)	0..1	
* UploadDate	String(50)	0..1	
* UploadedBy	String(50)	0..1	
* VdrCode	String(50)	0..1	
* VendorDocumentNumber	String(50)	0..1	
* VendorRev	String(50)	0..1	
X-Filename	String(255)	0..n	Arbitrary filename used to identify the local file attachment
			base-64 encoded binary contents of the file

* 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.

Sample Request

```
POST https://aul.aconex.com/api/projects/1879048400/temporaryFile

[HTTP Headers]
Content-Type: multipart/mixed; boundary=myboundary

[HTTP Post content]
--myboundary

<UnregisteredDocument>
  <DocumentNumber>SAMPLE-001</DocumentNumber>
</UnregisteredDocument>
--myboundary
Content-Disposition: attachment; filename=sample.png

iVBORw0KGgoAAAANSUHEUGAAADEAAAAICAYAAABQ6Rd5AAAABHNCSVQICAgIfAhkiAAABGdJREFU
OI1lk2tMU3cYxn/ntAfsOS2UJdCqXJQCK7tKDG4aIYAQs+jcNPOC02SfXbYvy7IsZl/3yRizZEuM
DnW6uUxUMMt49QxCV5mAKVAhWajLeViL9JCOT2cnnlgdBqz5+Ob///J83vyvoJhGEYikSAynODF
iyiCtIOBwOHE4nIiiyLLm5uKM+8ZJzM+TbbdTWfCEJEkYhke4EiYQ8KPrOg6HE+dLfzVNY2Zmm1A4
RDKZRLZYKCxcg6Ioae9UKsXERIDpmWkyJImCgiKys7MxDIOF/puklDkyyzZjzlkJwGxslpGRYSRJ
orZmPWaAajnOnmQwGsdpsJJNJotEIGzfUsX9f04Ig8Me9bm7cuI4B5NhziMvN2btnHxXl1Vy5dpmH
D+9jtdqQJlI1Q6DklJaUcOngERVE48/0pno16UBQF2SITi8cAgQP726msqEJVvc6eP8PY2CgrV64i
kUgwO/uC3bvpe77+LRBFohePYXa6yP3kPJ05k4600/j84+l8ZoD2Ax9isciYzWZSgRRXrl6m934P
jY3NaMkk17o6KS0t49DBw1gsMouLGgC9vT309vbQ0tzK9pY2BEFg0P2Us+f00PXrVQ7sayexkCAR
K4svPj+GyWQikZjnxMnjXOvqpLKiiT+77+DxjHdk8EdUVVaJ6zrffvcNV7s6qa6uRa5pIWv3Z8x2
fk300lfcstUz7vubttYdbNxB7AEYTab6R/oIxIJo+s6kWGyHg8htc7hmEYbG9uQ5aXVcSMgAY
dD9FFEWamlowmUwAVFfVsGrVagYHnwIgAIgIkSAIpipSC/gIEn/ei6zph3FABVVenrewyArMho
msbkZJDiYhfWxsPo0Un0KS9qhsrm+rdpaW5FEIQLCFVVOXHyOJqWZOuWbdjtdiKR8Cv7CqRDvqxF
fRFBEDCZzK/MJU1C1xdfe7+s5XsxDcPtHwwGEP6d0/KcOPKc2032pSIEAc/qBoKmMnYKf2HKyk0D
AJinpicJh0M0NjTR3LQdgGQyyZ+PHwHgcPvW67eb9PteIz8/H1E0pQOsKVqL1zvGwEAF69dvBGBq
eopAwM/atcX/C/GyigrX4PWO4XKVU1Fe+Up5y7DuoUF+6fwZV3EJi6KX+M1TiNYc5Lp3liDychlk
Z9u5/6AXURSxKlaGRtxps9KSMrZu2ca9nm4CAT8FBYXEYzGqq2tpbGji2aiHny5dpG+gj8yMDNxD
bmRZ4d2d76U9/uvsdTU2NOHxDHP+hw7Kyt7EZrUxNz9PNBLh46OfMhGc4MLFcyiKwt49H2A36cz4
3EQufInJ7iTtVYdgGIYRi80y8KSfUOg5qVQKwVbIy81j3boKVqxYgWEY+HzjjHiGmZuLoyhWaqpr
cTicaIsaQ+5Bxn3jpFI6jjzn0kHKMGb3795mQV2grXVHOviJrW/wB/zs2rkbURTRNI2hYtd+vw9V
VbFYLOSvzqe8vJLbd24RjUbZtKmeosIiALTAMHPdPyLa3sC24yj/AD0blwCbTYEeAAAAAE1FTkSu
QmCC

--myboundary--
```

Response

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

Element name	Type(maxlength)	Cardinality	Notes
TemporaryFileResult	Group	1	
* TemporaryFile	Long (64-bit signed)	1	The document ID of the unregistered document just uploaded

Sample Response


```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<TemporaryFileResult>
  <TemporaryFile>271341877549072386</TemporaryFile>
</TemporaryFileResult>
```

Successful requests will return a 200 OK HTTP Status.

Constraints

The request will fail if the specified project has unlocked fields while attempting to upload.

Error Codes specific to the service

Status Code	Description	Http Status Code
CANNOT_UPLOAD_TO_PROJECT_WITH_UNLOCKED_FIELDS	The project ID specified currently has unlocked fields which is not allowed during upload	400

Aconex Directory Services

Directory Search (Global)

The service retrieves the details of all users who match the given search parameters.

Note: User details are retrieved from the Global Directory.

URL structure

```
HTTP GET: https://{hostname}/api/directory?queryparams
```

Parameters

Parameters	Type(maxlength)	Cardinality	Notes
org_name	String(No Limit)	0..1	Implicit wildcard search, both before and after the string e.g. searching for "min" will find "Ministry" as well as "Admin"
given_name	String(No Limit)	0..1	Implicit wildcard search, after the string e.g. searching for "mar" will find "Mark" and "Mary", but not "Omar"
job_title	String(No Limit)	0..1	Implicit wildcard search, both before and after the string
division	String(No Limit)	0..1	Implicit wildcard search, both before and after the string
family_name	String(No Limit)	0..1	Implicit wildcard search, after the string
email	String(No Limit)	0..1	Exact String search. It will find users which match the exact email provided.

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aui.aconex.com/api/directory?org_name=consulting&division=east&job  
title=admin&given_name=mary&family_name=smith
```

Response Fields

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

Element	Type(maxlength)	Cardinality	Notes
DirectorySearch	Group	1	
TotalResults	Attribute Short(Signed 16 bit)	1	The number of results that match the given search parameters
* SearchResults	Group	1	
** Directory	Group	0..n	
*** DivisionName	String(100)	0..1	
*** OrganizationId	String	0..1	
*** OrganizationName	String(60)	0..1	
*** TradingName	String(60)	0..1	
*** JobTitle	String(50)	0..1	
*** ProjectAddress	String(205)	0..1	
*** ProjectFax	String(27)	0..1	
*** ProjectPhone	String(27)	0..1	
*** Mobile	String(20)	0..1	
*** SearchResultType	String	1	One of: <ul style="list-style-type: none">• USER_TYPE• GROUP_TYPE• GUEST_TYPE Note that global search only returns users (USER_TYPE and GUEST_TYPE)
*** UserId	String	0..1	
*** UserName	String(61)	0..1	First name + " " + Last name

Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
<DirectorySearch TotalResults="12">
  <SearchResults>
    <Directory>
      <DivisionName>Administration</DivisionName>
      <Mobile>0412345678</Mobile>
      <OrganizationId>1879048492</OrganizationId>
      <OrganizationName>Majestic Project & Construction
        Management Limited</OrganizationName>
      <TradingName>Majestic Builders</TradingName>
      <JobTitle>Project Coordinator</JobTitle>
      <ProjectAddress>190-210 High Street Buckhurst Grange
        Clearwater Bay New Devonshire 9000,
Australia</ProjectAddress>
      <ProjectFax>61922221111</ProjectFax>
      <ProjectPhone>61933332222</ProjectPhone>
      <SearchResultType>USER_TYPE</SearchResultType>
      <UserId>1879049257</UserId>
      <UserName>Ho Tran</UserName>
    </Directory>
    <Directory>
      <DivisionName>Administration</DivisionName>
      <Mobile>0412345438</Mobile>
      <OrganizationId>1879048511</OrganizationId>
      <OrganizationName>Rand Resources (Pty) Ltd</OrganizationName>
      <TradingName>Rand Resources</TradingName>
      <JobTitle>Project Administrator</JobTitle>
      <ProjectAddress>1564 Miseshi Rd Parklands Kitwe
        2016, Zambia</ProjectAddress>
      <ProjectFax>2602211167</ProjectFax>
      <ProjectPhone>2602211192</ProjectPhone>
      <SearchResultType>USER_TYPE</SearchResultType>
      <UserId>1879049339</UserId>
      <UserName>Mary Karinkis</UserName>
    </Directory>
  </SearchResults>
</DirectorySearch>

```

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
GLOBAL_DIRECTORY_DISABLED	If the user is requesting information from the global directory but does not have the global directory secured asset	401 Forbidden

Prerequisites

Required Permissions

The authorizing user (specified in the request header) must have the secured asset to access the Global Directory.

Preferences/Module Setup

Not applicable.

Constraints

As with the Aconex GUI, the service returns only the details of users who are visible to the authorizing user. For example, disabled users will **not** be returned in the response message.

Related APIs

- Directory Search
- List Users in Group
- View User Information
- View Organization Information
- List Projects for User

Directory Search (Project)

The service retrieves the details of all groups and users who match the given search parameters.

Note: Group and user details are retrieved from the specified project's directory.

URL structure

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

Parameters

Parameters	Type(maxlength)	Cardinality	Notes
org_name	String(No Limit)	0..1	Implicit wildcard search, both before and after the string e.g. searching for "min" will find "Ministry" as well as "Admin"
given_name	String(No Limit)	0..1	Implicit wildcard search, after the string e.g. searching for "mar" will find "Mark" and "Mary", but not "Omar". Use this parameter when searching for groups
job_title	String(No Limit)	0..1	Implicit wildcard search, both before and after the string
division	String(No Limit)	0..1	Implicit wildcard search, both before and after the string
family_name	String(No Limit)	0..1	Implicit wildcard search, after the string
email	String(No Limit)	0..1	Exact String search. It will find users which match the exact email provided.
show_groups	Boolean	0..1	Default value=true. Possible values:true or false. If false, group details are not returned.

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aul.aconex.com/api/projects/1879048400/directory?org_name=splice&division=aus&jobtitle=manager&given_name=tim&family_name=jones&show_groups=true
```

Response Fields

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

Element	Type(maxlength)	Cardinality	Notes
DirectorySearch	Group	1	
TotalResults	Attribute Short(Signed 16 bit)	1	The number of results that match the given search parameters
* SearchResults	Group	1	
** Directory	Group	0..n	
*** DivisionName	String(100)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** GroupId	String	0..1	Only applies when SearchResultType=GROUP_TYPE
*** GroupName	String(100)	0..1	Only applies when SearchResultType=GROUP_TYPE
*** OrganizationId	String	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** OrganizationName	String(60)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** TradingName	String(60)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** JobTitle	String(50)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** ProjectAddress	String(205)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** ProjectFax	String(27)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** ProjectPhone	String(27)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** Mobile	String(20)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** SearchResultType	String	1	One of: <ul style="list-style-type: none"> • USER_TYPE • GROUP_TYPE • GUEST_TYPE Note that users (including guests) and groups have different fields, as per the sample response below
*** UserId	String	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE
*** UserName	String(61)	0..1	Only applies when SearchResultType=USER_TYPE and GUEST_TYPE. First name + " " + Last name

Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
<DirectorySearch TotalResults="12">
  <SearchResults>
    <Directory>
      <GroupId>1879048371</GroupId>
      <GroupName>Design Meeting Group</GroupName>
      <SearchResultType>GROUP_TYPE</SearchResultType>
    </Directory>
    <Directory>
      <DivisionName>Structural</DivisionName>
      <Mobile>0412345678</Mobile>
      <OrganizationId>1879048494</OrganizationId>
      <OrganizationName>Enzice Consulting
Engineers</OrganizationName>
      <TradingName>Enzice Consulting</TradingName>
      <JobTitle>Senior Project Manager</JobTitle>
      <ProjectAddress>21 Spring Street Winchester New
        Devonshire 652141, Australia</ProjectAddress>
      <ProjectFax>61944443333</ProjectFax>
      <ProjectPhone>61955554444</ProjectPhone>
      <SearchResultType>USER_TYPE</SearchResultType>
      <UserId>1879049138</UserId>
      <UserName>William Chadstone</UserName>
    </Directory>
    <Directory>
      <DivisionName>Mechanical</DivisionName>
      <Mobile>0412345679</Mobile>
      <OrganizationId>1879048494</OrganizationId>
      <OrganizationName>Enzice Consulting
Engineers</OrganizationName>
      <TradingName>Enzice Consulting</TradingName>
      <JobTitle>Drafter</JobTitle>
      <ProjectAddress>21 Spring Street Winchester New
        Devonshire 652141, Australia</ProjectAddress>
      <ProjectFax>61944443333</ProjectFax>
      <ProjectPhone>61955554444</ProjectPhone>
      <SearchResultType>USER_TYPE</SearchResultType>
      <UserId>1879049256</UserId>
      <UserName>Ahmed Jaffer</UserName>
    </Directory>
  </SearchResults>
</DirectorySearch>

```

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
GLOBAL_DIRECTORY_DISABLED	The secured asset to search the global directory has not been granted to the requesting user	401 Forbidden

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not Applicable.

Constraints

As with the Aconex GUI, the service returns only the details of users who are visible to the authorizing user. For example, disabled users will **not** be returned in the response message.

Related APIs

- Directory Search
- List Users in Group
- View User Information
- View Organization Information
- List Projects for User

Unknown macro: {parameters}

View User Information (Global)

The service retrieves the details of a specified user in the global directory.

Notes:

1. This service differs from the project level user retrieval in that one can request the information of a user that exists within that Aconex instance that the request is being directed to irrespective of the project that the target user is on.
2. The client making the request must also have the necessary secured asset to access the global directory to be able to perform the request.

URL structure

```
GET https://{hostname}/api/users/{userid}
```

Parameters

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

Interface

Request Fields

Not applicable. HTTP GET operations have no request body.

Sample request

```
https://aui.aconex.com/api/users/1879048221
```

Response Fields

Element	Type(maxlength)	Cardinality	Notes
User	Group	1	

* Division	String(100)	1	
* Fax	String(30)	1	
* Mobile	String(20)	1	
* OrganizationId	String	1	
* OrganizationName	String(60)	1	
* OrganizationPostalAddressLine	String(150)	1	
* OrganizationPostalCity	String(40)	1	
* OrganizationPostalCountry	String(40)	1	
* OrganizationPostalPostCode	String(10)	1	
* OrganizationPostalState	String(40)	1	
* Phone	String(30)	1	
* JobTitle	String(50)	1	
* UserPostalAddressLine	String(205)	1	
* UserPostalCity	String(50)	1	
* UserPostalCountry	String(50)	1	
* UserPostalPostCode	String(20)	1	
* UserPostalState	String(50)	1	
* UserFirstName	String(30)	1	
* UserId	String	1	
* UserLastName	String(30)	1	
* UserTitle	String(25)	1	

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<User>
  <Division/>
  <Fax>61396001111</Fax>
  <Mobile/>
  <OrganizationId>1879048570</OrganizationId>
  <OrganizationName>LockedOrg</OrganizationName>
  <OrganizationPostalAddressLine>696 Bourke
St</OrganizationPostalAddressLine>
  <OrganizationPostalCity>Melbs</OrganizationPostalCity>
  <OrganizationPostalCountry>Australia</OrganizationPostalCountry>
  <OrganizationPostalPostCode>3000</OrganizationPostalPostCode>
  <OrganizationPostalState>VIC</OrganizationPostalState>
  <Phone>61396001111</Phone>
  <JobTitle/>
  <UserPostalAddressLine>696 Bourke St</PostalAddressLine>
  <UserPostalCity>Melbs</PostalCity>
  <UserPostalCountry>Australia</PostalCountry>
  <UserPostalPostCode>3000</PostalPostCode>
  <UserPostalState>VIC</PostalState>
  <UserFirstName>Locked</UserFirstName>
  <UserId>1879049450</UserId>
  <UserLastName>Organization</UserLastName>
  <UserTitle>Mr</UserTitle>
</User>
```

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
GLOBAL_DIRECTORY_DISABLED	If the user is requesting information from the global directory but does not have the global directory secured asset	401
ENTITY_NOT_FOUND	If the id of the user did not match a user within the Aconex instance	400
ENTITY_NOT_VISIBLE	If the user being requested is not visible to the user making the request.	400

Prerequisites

Required Permissions

The authorizing user (specified in the request header) must have the secured asset to view user details in the global directory.

Preferences/Module Setup

Not applicable.

Constraints

As with the Aconex GUI, the service returns only the details of users who are visible to the authorizing user. For example, details of a disabled user will **not** be returned in the response message.

Related APIs

- Search Directory
- List Users in Group
- List Projects for User
- View User Information

View User Information (Project)

The service retrieves the details of a specified user in the project directory.

Note: This request differs from the global level user retrieval in that the project that the user must be specified and the user making the request must have access to the specified project.

URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/users/{userid}
```

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/users/1879048221
```

Response Fields

Element	Type(maxlength)	Cardinality	Notes
User	Group	1	
* Division	String(100)	1	
* Fax	String(30)	1	
* Mobile	String(20)	1	
* OrganizationId	String	1	
* OrganizationName	String(60)	1	
* OrganizationPostalAddressLine	String(150)	1	
* OrganizationPostalCity	String(40)	1	
* OrganizationPostalCountry	String(40)	1	
* OrganizationPostalPostCode	String(10)	1	
* OrganizationPostalState	String(40)	1	
* Phone	String(30)	1	
* JobTitle	String(50)	1	
* UserPostalAddressLine	String(205)	1	
* UserPostalCity	String(50)	1	
* UserPostalCountry	String(50)	1	
* UserPostalPostCode	String(20)	1	
* UserPostalState	String(50)	1	
* UserFirstName	String(30)	1	
* UserId	String	1	
* UserLastName	String(30)	1	
* UserTitle	String(25)	1	

Sample response

```

<?xml version="1.0" encoding="UTF-8"?>
<User>
  <Division/>
  <Fax>61396001111</Fax>
  <Mobile/>
  <OrganizationId>1879048570</OrganizationId>
  <OrganizationName>LockedOrg</OrganizationName>
  <OrganizationPostalAddressLine>696 Bourke
St</OrganizationPostalAddressLine>
  <OrganizationPostalCity>Melbs</OrganizationPostalCity>
  <OrganizationPostalCountry>Australia</OrganizationPostalCountry>
  <OrganizationPostalPostCode>3000</OrganizationPostalPostCode>
  <OrganizationPostalState>VIC</OrganizationPostalState>
  <Phone>61396001111</Phone>
  <JobTitle/>
  <UserPostalAddressLine>696 Bourke St</UserPostalAddressLine>
  <UserPostalCity>Melbs</UserPostalCity>
  <UserPostalCountry>Australia</UserPostalCountry>
  <UserPostalPostCode>3000</UserPostalPostCode>
  <UserPostalState>VIC</UserPostalState>
  <UserFirstName>Locked</UserFirstName>
  <UserId>1879049450</UserId>
  <UserLastName>Organization</UserLastName>
  <UserTitle>Mr</UserTitle>
</User>

```

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
ENTITY_NOT_FOUND_FOR_PROJECT	The user is requesting user information from a specific project but the target user is not on that project	400
ENTITY_NOT_VISIBLE	The target user is not visible to the user making the request	401

Prerequisites

Required Permissions

The user performing the request must have access to the project that the target user is on.

Preferences/Module Setup

Not applicable.

Constraints

As with the Aconex GUI, the service returns only the details of users who are visible to the authorizing user. For example, details of a disabled user will **not** be returned in the response message.

Related APIs

- View User Information
- Directory Search

- List Users in Group
- List Projects for User

View Own User Information

The service retrieves the details of the user making a request.

Notes:

1. By using the username provided in the authentication credentials, the API will retrieve the details of the authenticated user and return them in the format provided by other *View User* API services (with additional username).
2. This service may be useful when you have access to only a user's credentials, and require more details to construct API requests, e.g. `userId`.
3. Another use case for this call is when you have access token and want to discover corresponding username.

URL structure

```
HTTP GET: https://{hostname}/api/user
```

Parameters

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

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aui.aconex.com/api/user
```

Response Fields

Element	Type(maxlength)	Cardinality	Notes
User	Group	1	
* Division	String(100)	1	
* Fax	String(30)	1	
* Mobile	String(20)	1	
* OrganizationId	String	1	
* OrganizationName	String(60)	1	
* OrganizationPostalAddressLine	String(150)	1	
* OrganizationPostalCity	String(40)	1	
* OrganizationPostalCountry	String(40)	1	
* OrganizationPostalPostCode	String(10)	1	
* OrganizationPostalState	String(40)	1	
* Phone	String(30)	1	
* JobTitle	String(50)	1	
* UserPostalAddressLine	String(205)	1	
* UserPostalCity	String(50)	1	
* UserPostalCountry	String(50)	1	
* UserPostalPostCode	String(20)	1	

* UserPostalState	String(50)	1	
* UserFirstName	String(30)	1	
* UserId	String	1	
* UserLastName	String(30)	1	
* UserTitle	String(25)	1	
* UserName	String(80)	1	

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<User>
  <Division/>
  <Fax>61396001111</Fax>
  <Mobile/>
  <OrganizationId>1879048570</OrganizationId>
  <OrganizationName>LockedOrg</OrganizationName>
  <OrganizationPostalAddressLine>696 Bourke
St</OrganizationPostalAddressLine>
  <OrganizationPostalCity>Melbs</OrganizationPostalCity>
  <OrganizationPostalCountry>Australia</OrganizationPostalCountry>
  <OrganizationPostalPostCode>3000</OrganizationPostalPostCode>
  <OrganizationPostalState>VIC</OrganizationPostalState>
  <Phone>61396001111</Phone>
  <JobTitle/>
  <UserPostalAddressLine>696 Bourke St</UserPostalAddressLine>
  <UserPostalCity>Melbs</UserPostalCity>
  <UserPostalCountry>Australia</UserPostalCountry>
  <UserPostalPostCode>3000</UserPostalPostCode>
  <UserPostalState>VIC</UserPostalState>
  <UserFirstName>Locked</UserFirstName>
  <UserId>1879049450</UserId>
  <UserLastName>Organization</UserLastName>
  <UserTitle>Mr</UserTitle>
  <UserName>poleary</UserName>
</User>
```

Error Codes Specific to the Service

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

Prerequisites

Required Permissions

The user performing the request must have access to API web services.

Preferences/Module Setup

Not applicable.

Constraints

Not applicable.

Related APIs

- View User Information
-

View Organization Information

The service retrieves the details of an organization.

Note: Organization details are retrieved from the Global Directory.

URL structure

```
HTTP GET: https://{hostname}/api/organizations/{organizationid}
```

Parameters

None.

Interface

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aul.aconex.com/api/organizations/1879048221
```

Response Fields

Element	Type(maxlength)	Cardinality	Notes
Organization	Group	1	
* ABN	String(30)	1	
* DeliveryAddressLine	String(130)	1	
* DeliveryCity	String(40)	1	
* DeliveryCountry	String(40)	1	
* DeliveryPostcode	Short(10)	1	
* DeliveryState	String(40)	1	
* OrganizationDivisions	Group	1	
** Division	String(100)	0..n	
* EmailAddress	String(255)	1	
* Fax	String(30)	1	
* OrganizationCode	String(8)	1	
* OrganizationId	String	1	
* OrganizationName	String(60)	1	
* Phone	String(30)	1	
* PostalAddressLine	String(150)	1	
* PostalCity	String(40)	1	
* PostalCountry	String(40)	1	

* PostalPostCode	Short(10)	1	
* PostalState	String(40)	1	
* OrganizationRoles	Group	1	
** Role	String(40)	0..n	
* TradingName	String(60)	1	
* WebsiteAddress	String(255)	1	

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<Organization>
  <ABN>2223334444</ABN>
  <DeliveryAddressLine>27 Short Street</DeliveryAddressLine>
  <DeliveryCity>Spring Hill</DeliveryCity>
  <DeliveryCountry>Australia</DeliveryCountry>
  <DeliveryPostcode>4003</DeliveryPostcode>
  <DeliveryState>Queensland</DeliveryState>
  <OrganizationDivisions/>
  <EmailAddress>info@aconex.com</EmailAddress>
  <Fax>0755455555</Fax>
  <OrganizationCode>Briscon</OrganizationCode>
  <OrganizationId>1879048221</OrganizationId>
  <OrganizationName>Brisbane Concretors PL</OrganizationName>
  <Phone>0755455555</Phone>
  <PostalAddressLine>27 Short Street</PostalAddressLine>
  <PostalCity>Spring Hill</PostalCity>
  <PostalCountry>Australia</PostalCountry>
  <PostalPostCode>4003</PostalPostCode>
  <PostalState>Queensland</PostalState>
  <OrganizationRoles>
    <Role>Consultant</Role>
    <Role>Subcontractor</Role>
  </OrganizationRoles>
  <TradingName>Brisbane Concretors</TradingName>
  <WebsiteAddress/>
</Organization>
```

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 the secured asset to View Organization Details in the Global Directory.

Preferences/Module Setup

Not applicable.

Constraints

As with the Aconex GUI, the service returns only the details of organizations that are visible to the authorizing user. For example, details of a disabled organization will **not** be returned in the response message.

Related APIs

- List Documents
- Directory Search
- View User Information

List Users in Group

The service retrieves the details of users who belong to a project group.

URL structure

```
HTTP GET: https://{hostname}/api/projects/{projectid}/groups/{groupid}
```

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/organizations/1879048221
```

Response Fields

Element	Type(maxlength)	Cardinality	Notes
UserResults	Group	1	
TotalResults	Attribute Short(Signed 16 bit)	1	The number of results that match the given search parameters
* SearchResults	Group	1	
** User	Group	0..n	
*** Division	String(100)	1	
*** Fax	String(30)	1	
*** Mobile	String(20)	1	
*** OrganizationId	String	1	
*** OrganizationName	String(60)	1	
*** OrganizationPostalAddressLine	String(150)	1	
*** OrganizationPostalCity	String(40)	1	
*** OrganizationPostalCountry	String(40)	1	
*** OrganizationPostalPostCode	Short(10)	1	

*** OrganizationPostalState	String(40)	1	
*** Phone	String(30)	1	
*** JobTitle	String(50)	1	
*** UserFirstName	String(30)	1	
*** UserId	String	1	
*** UserLastName	String(30)	1	
*** UserPostalAddressLine	String(205)	1	
*** UserPostalCity	String(50)	1	
*** UserPostalCountry	String(50)	1	
*** UserPostalPostCode	Short(20)	1	
*** UserPostalState	String(50)	1	
*** UserTitle	String(25)	1	

Sample response

```
<?xml version="1.0" encoding="UTF-8"?>
<UserResults TotalResults="2">
  <SearchResults>
    <User>
      <Division/>
      <Fax>61944443333</Fax>
      <Mobile/>
      <OrganizationId>1879048494</OrganizationId>
      <OrganizationName>Enzice Consulting
Engineers</OrganizationName>
      <OrganizationPostalAddressLine>21 Spring Street
</OrganizationPostalAddressLine>
      <OrganizationPostalCity>Winchester</OrganizationPostalCity>

<OrganizationPostalCountry>Australia</OrganizationPostalCountry>
      <OrganizationPostalPostCode>9000</OrganizationPostalPostCode>
      <OrganizationPostalState>New
Devonshire</OrganizationPostalState>
      <Phone>61955554444</Phone>
      <JobTitle>Lead Engineer</JobTitle>
      <UserFirstName>Alice</UserFirstName>
      <UserId>1879049134</UserId>
      <UserLastName>Templeton</UserLastName>
      <UserPostalAddressLine>21 Spring Street
</UserPostalAddressLine>
      <UserPostalCity>Winchester</UserPostalCity>
      <UserPostalCountry>Australia</UserPostalCountry>
      <UserPostalPostCode>652141</UserPostalPostCode>
      <UserPostalState>New Devonshire</UserPostalState>
      <UserTitle>Ms</UserTitle>
    </User>
    <User>
      <Division>Developer</Division>
      <Fax>61922223333</Fax>
      <Mobile/>
      <OrganizationId>1879048491</OrganizationId>
      <OrganizationName>VIP Group</OrganizationName>
      <OrganizationPostalAddressLine>P.O. Box
```

```
35</OrganizationPostalAddressLine>
    <OrganizationPostalCity>Clearwater Bay</OrganizationPostalCity>

<OrganizationPostalCountry>Australia</OrganizationPostalCountry>
    <OrganizationPostalPostCode>658811</OrganizationPostalPostCode>
    <OrganizationPostalState>New
Devonshire</OrganizationPostalState>
    <Phone>61911112222</Phone>
    <JobTitle>Associate Director</JobTitle>
    <UserFirstName>Peter</UserFirstName>
    <UserId>1879049119</UserId>
    <UserLastName>Chitwood</UserLastName>
    <UserPostalAddressLine>P.O. Box 35</UserPostalAddressLine>
    <UserPostalCity>Clearwater Bay</UserPostalCity>
    <UserPostalCountry>Australia</UserPostalCountry>
    <UserPostalPostCode>658811</UserPostalPostCode>
    <UserPostalState>New Devonshire</UserPostalState>
    <UserTitle>Mr</UserTitle>
</User>
```

```
</SearchResults>
</UserResults>
```

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
ENTITY_NOT_FOUND	The requested GROUP entity with id(s) {groupid} was not found	400 Bad Request

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not applicable.

Constraints

As with the Aconex GUI, the service returns only the details of users who are visible to the authorizing user. For example, disabled users will **not** be returned in the response message.

Related APIs

- Directory Search
- View User Information
- List Projects for User

Get Organization Logo

The service returns the current logo associated with the specified organization.

URL Structure

```
HTTP GET: https://{hostname}/api/organization/logo?{parameters}
```

Parameters

Parameters	Type(maxlength)	Cardinality	Notes
organization_id	Integer(signed 32 bit)	1	Required

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aui.aconex.com/api/organization/logo?organization_id=15
```

Response Fields

Not applicable. The response is a binary stream of the logo associated with the organization.

Sample response

Not applicable.

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
LOGO_NOT_FOUND	When organization does not have any associated logo	400 Bad Request

Prerequisites

Required Permissions

None

Preferences/Module Setup

Not applicable.

Constraints

None

Related APIs

- Download Project Logo

Aconex Projects Services

List Projects for User

The service retrieves the list of projects that the authorizing user has access to within their organization.

URL structure

```
HTTP GET: https://{hostname}/api/projects
```

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>

Response Fields

Element	Type(maxlength)	Cardinality	Notes
ProjectResults	Group	1	
TotalResults	Attribute Short(Signed 16 Bit)	1	The number of results that match the given search parameters
* SearchResults	Group	1	
** Project	Group	0..n	
** Hidden	Attribute boolean	1	Determines if the project is hidden from view
** DisconnectionStatus	Attribute String	1	One of: <ul style="list-style-type: none">• WARNING ACTIVATED• PROJECT DISCONNECTED
** Active	Attribute boolean	1	Determines if the project is "Active" or "De-activated"
*** CreationDate	String(24)	1	Standard DateTime in UTC format
*** DeliveryAddressLine	String(120)	1	
*** DeliveryCity	String(25)	1	
*** DeliveryCountry	String(25)	1	
*** DeliveryPostcode	String(10)	1	
*** DeliveryState	String(25)	1	
*** FaxNumber	String(27)	1	
*** LogoPath	String(255)	0..1	Relative URL path to project logo
*** ProjectOwnerOrganizationId	String	1	
*** PostalAddressLine	String(120)	1	
*** PostalCity	String(25)	1	
*** PostalCountry	String(25)	1	
*** PostalPostCode	Short(10)	1	
*** PostalState	String(25)	1	
*** ProjectAddressLine	String(120)	1	
*** ProjectCity	String(25)	1	
*** ProjectCountry	String(25)	1	
*** ProjectDescription	String(2GB)	1	Max of 2 GB worth of characters
*** ProjectId	String	1	
*** ProjectName	String(100)	1	
*** ProjectPostcode	String(10)	1	
*** ProjectShortName	String(20)	1	
*** ProjectState	String(25)	1	
*** ProjectType	String(30)	1	
*** ProjectValue	String	1	Decimal (2 decimal places) converted to String
*** ProjectResponsibilities	Group	1	
**** ProjectResponsibility	Group	0..n	
***** Responsibility	String(30)	1	
***** Role	String(30)	1	
*** StartDate	String(24)	1	Standard DateTime in UTC format
*** StopDate	String(24)	1	Standard DateTime in UTC format

Sample response

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

```
<ProjectResults TotalResults="2">
  <SearchResults>
    <Project Hidden="false" DisconnectionStatus="NONE" Active="true">
      <CreationDate>2005-07-25T04:59:08.340Z</CreationDate>
      <DeliveryAddressLine>Unit 221 Buckhurst
Grangel</DeliveryAddressLine>
      <DeliveryCity>Clearwater Bay1</DeliveryCity>
      <DeliveryCountry>Australia</DeliveryCountry>
      <DeliveryPostcode>6588221</DeliveryPostcode>
      <DeliveryState>New Devonshire1</DeliveryState>
      <FaxNumber>61922221111</FaxNumber>

<LogoPath>/html/logos/aconex-stored/project/1879048400/2007-10-24-14-21-43
-683.jpg</LogoPath>

<ProjectOwnerOrganizationId>1879048492</ProjectOwnerOrganizationId>
  <PhoneNumber>61933332222</PhoneNumber>
  <PostalAddressLine>Unit 22 Buckhurst Grange</PostalAddressLine>
  <PostalCity>Clearwater Bay</PostalCity>
  <PostalCountry>Australia</PostalCountry>
  <PostalPostcode>658822</PostalPostcode>
  <PostalState>New Devonshire</PostalState>
  <ProjectAddressLine>Lagoon Road Main Beach</ProjectAddressLine>
  <ProjectCity>Bay Cove</ProjectCity>
  <ProjectCountry>Australia</ProjectCountry>
  <ProjectDescription/>
  <ProjectId>1879048400</ProjectId>
  <ProjectName>Hotel VIP Resort & Spa</ProjectName>
  <ProjectPostcode>9050</ProjectPostcode>
  <ProjectShortName>Hotel VIP Resort</ProjectShortName>
  <ProjectState/>
  <ProjectType>Construction</ProjectType>
  <ProjectValue>1000000000.00</ProjectValue>
  <ProjectResponsibilities>
    <ProjectResponsibility>
      <Responsibility>VIP Development Group</Responsibility>
      <Role>Client</Role>
    </ProjectResponsibility>
    <ProjectResponsibility>
      <Responsibility>Majestic</Responsibility>
      <Role>Head Contractor</Role>
    </ProjectResponsibility>
    <ProjectResponsibility>
      <Responsibility>Splice Architecture</Responsibility>
      <Role>Architect</Role>
    </ProjectResponsibility>
    <ProjectResponsibility>
      <Responsibility>Enzice</Responsibility>
      <Role>Structural/Civil Eng</Role>
    </ProjectResponsibility>
    <ProjectResponsibility>
      <Responsibility>Elan Engineering</Responsibility>
      <Role>Mechanical Eng</Role>
    </ProjectResponsibility>
  </ProjectResponsibilities>
</ProjectResults>
```

```
        </ProjectResponsibility>
        <ProjectResponsibility>
            <Responsibility>Apex Mechanical</Responsibility>
            <Role>Electrical Engineer</Role>
        </ProjectResponsibility>
        <ProjectResponsibility>
            <Responsibility>Infinitel</Responsibility>
            <Role>Telecommunications</Role>
        </ProjectResponsibility>
        <ProjectResponsibility>
            <Responsibility>Gulf Wide Consultant</Responsibility>
            <Role>Services Consultant</Role>
        </ProjectResponsibility>
        <ProjectResponsibility>
            <Responsibility>AJ Hydraulics</Responsibility>
            <Role>Hydraulic</Role>
        </ProjectResponsibility>
        <ProjectResponsibility>
            <Responsibility>Flame Away</Responsibility>
            <Role>Fire Services</Role>
        </ProjectResponsibility>
        <ProjectResponsibility>
            <Responsibility>FMI</Responsibility>
            <Role>FIM</Role>
        </ProjectResponsibility>
    </ProjectResponsibilities>
    <StartDate>2005-07-24T14:00:00.000Z</StartDate>
    <StopDate>2012-08-27T14:00:00.000Z</StopDate>
</Project>
<Project Hidden="false" DisconnectionStatus="NONE" Active="true">
    <CreationDate>2005-09-05T03:33:26.130Z</CreationDate>
    <DeliveryAddressLine>PO Box 12 Port
Quayside</DeliveryAddressLine>
    <DeliveryCity>South Ishta Quays</DeliveryCity>
    <DeliveryCountry>Australia</DeliveryCountry>
    <DeliveryPostcode>6253</DeliveryPostcode>
    <DeliveryState>Greenfields County</DeliveryState>
    <FaxNumber>61856443011</FaxNumber>

    <LogoPath>/html/logos/aconex-stored/project/215/2005-11-23-10-04-46-057.gif</LogoPath>

    <ProjectOwnerOrganizationId>1879048481</ProjectOwnerOrganizationId>
    <PhoneNumber>61856443012</PhoneNumber>
    <PostalAddressLine>PO Box 12 Port Quayside</PostalAddressLine>
    <PostalCity>South Ishta Quays</PostalCity>
    <PostalCountry>Australia</PostalCountry>
    <PostalPostcode>6253</PostalPostcode>
    <PostalState>Greenfields County</PostalState>
    <ProjectAddressLine>PO Box 12 Port
Quayside</ProjectAddressLine>
    <ProjectCity>South Ishta Quays</ProjectCity>
    <ProjectCountry>Australia</ProjectCountry>
```

```

    <ProjectDescription>The physical set up and organisation
      of the World Games.</ProjectDescription>
    <ProjectId>1879048407</ProjectId>
    <ProjectName>The World Games</ProjectName>
    <ProjectPostcode>6253</ProjectPostcode>
    <ProjectShortName>World Games</ProjectShortName>
    <ProjectState>Greenfields County</ProjectState>
    <ProjectType>Sporting Event</ProjectType>
    <ProjectValue>20000000000.00</ProjectValue>
    <ProjectResponsibilities>
      <ProjectResponsibility>
        <Responsibility>Federated World Games
Committe</Responsibility>
        <Role>Client</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>Global Arc - Geoff
Stravinsky</Responsibility>
        <Role>Project Manager</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>Bild Construction Padma
          Karako</Responsibility>
        <Role>Construction Manager</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>NAC Solutions - Andrew
Killer</Responsibility>
        <Role>Business Solutions</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>Poshe PR -Randy Maxwell
          </Responsibility>
        <Role>Public Relations</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>Rapid Response - Li Feng
          Ying</Responsibility>
        <Role>Security</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>AT & E -Signe
Janssen</Responsibility>
        <Role>Lighting Engineer</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>Creativ Catering - Jane
          Davies</Responsibility>
        <Role>Catering</Role>
      </ProjectResponsibility>
      <ProjectResponsibility>
        <Responsibility>Explosiv Pyrotechnic James
          Lau</Responsibility>

```



```

        <Role>Fireworks</Role>
    </ProjectResponsibility>
    <ProjectResponsibility>
        <Responsibility>Life By Design Madeleine
            Frodo</Responsibility>
        <Role>Architect</Role>
    </ProjectResponsibility>
    <ProjectResponsibility>
        <Responsibility>Heist - Elke Tocana</Responsibility>
        <Role>Structural/ Civil</Role>
    </ProjectResponsibility>
    <ProjectResponsibility>
        <Responsibility>Beijing Jinlong - Wang
Cheng</Responsibility>
        <Role>Mechanical Eng</Role>
    </ProjectResponsibility>
</ProjectResponsibilities>
<StartDate>2005-10-31T13:00:00.000Z</StartDate>
<StopDate>2010-10-31T13:00:00.000Z</StopDate>
</Project>
</SearchResults>
</ProjectResults>

```

Error Codes Specific to the Service

Status Code	Description	Http Status Code

Prerequisites

Required Permissions

The authorizing user (specified in the request header) must be associated with at least one project.

Preferences/Module Setup

Not Applicable.

Constraints

None listed for this service.

Related APIs

None.

Get Project Logo

The service returns the current logo associated with the specified project.

```
HTTP GET: https://{hostname}/api/project/logo?{parameters}
```

Parameters

Parameters	Type(maxlength)	Cardinality	Notes
projectid	Integer(signed 32 bit)	1	Required

Request Fields

Not Applicable. HTTP GET operations have no request body.

Sample request

```
https://aul.aconex.com/api/project/logo?projectid=10
```

Response Fields

Not applicable. The response is a binary stream of the logo associated with the project.

Sample response

Not applicable.

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
LOGO_NOT_FOUND	When project does not have any associated logo	400 Bad Request
USER_NOT_ON_PROJECT	When user is not on the project	401 Unauthorized

Prerequisites

Required Permissions

Requesting user must belong to the project for which the logo is being requested

Preferences/Module Setup

Not applicable.

Constraints

None.

Related APIs

- Download Organization Logo

Invite User To Project

This service invite a user into a project.

URL structure

```
POST: https://{hostname}/api/projects/{projectid}/users?userid={userid}
```

Parameters

Parameters	Type(maxlength)	Cardinality	Notes
userid	String(No Limit)	1	The userid to be invited to the project

Interface

Request Fields

This operation have no request body.

Sample request

```
https://aui.aconex.com/api/projects/1207959678/users?userid=1879049196
```

Response Fields

This service have no response

Error Codes Specific to the Service

Status Code	Description	HTTP Status Code
PROJECT_IS_BY_EXPLICIT_INVITATION_ONLY	The project invitation mode is explicit, users can only be invited through the web application	401 Unauthorized

Prerequisites

Required Permissions

User must be also participate in the project

Preferences/Module Setup

This API respects the rules of Invitation mode which can be set in Project Preference

Related APIs

- Directory Search
- View User Information

Aconex Tasks Services

Task Count

The service returns task counts for a given project, or for all projects.

Note: Counts include totals for individual features (Mail, Register, Supplier Documents) and totals for different task types within features.

URL structure

```
HTTP GET: https://{hostname}/api/tasks/count?projectId={projectId}
```

Parameters

Parameters	Type(maxlength)	Cardinality	Notes
projectId	string		Optional. If provided, task counts for the given project are returned, else task counts for all projects associated with the user are returned.

Expected Response

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
Tasks	Group	1	
totalCount	Attribute Integer	1	The number of total tasks found for a given project or for all projects. Value can be "0" if none found.
*Feature	Group	1..n	n refers to the number of features this user/project registered to
*totalCount	Attribute Integer	1	The number of total tasks found for a given feature. Value can be "0" if none found.
*featureName	Attribute String	1	One of: <ul style="list-style-type: none">• Mail• Register (includes Documents, Assets, Items, Defects, Issues)• Supplier Documents (only if applicable)
**Type	Group	1..n	n refers to the number of task types each feature will have
**typeName	Attribute String	1	One of: <ul style="list-style-type: none">• Mail :<ul style="list-style-type: none">• unreadto• unreadcc• responserequired-OUTSTANDING• responserequired-OVERDUE• awaitingapproval• Register :<ul style="list-style-type: none">• unreadtransmittalto• unreadtransmittalcc• responserequiredtransmittal-OUTSTANDING• responserequiredtransmittal-OVERDUE• unreadshare• awaitingreview• Supplier Documents:<ul style="list-style-type: none">• supplierdocsubmissionrequired• supplierdocsubmitted
**totalCount	Attribute Integer	1	The number of total tasks found for a task type specified. Value can be "0" if none found.

Examples/Samples

Sample Request

(Task Counts for a given project with id : 1879048400)

```
https://aul.aconex.com/api/tasks/count?projectid=1879048400
```

(Task Counts for all projects)

```
https://aul.aconex.com/api/tasks/count
```

Sample Response

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Tasks totalCount="28">

  <Feature totalCount="12" featureName="Mail">
    <Type totalCount="3" typeName="unreadto"/>
    <Type totalCount="6" typeName="unreadcc"/>
    <Type totalCount="1" typeName="responserequired-OUTSTANDING"/>
    <Type totalCount="1" typeName="responserequired-OVERDUE"/>
    <Type totalCount="1" typeName="awaitingapproval"/>
  </Feature>

  <Feature totalCount="13" featureName="Register">
    <Type totalCount="5" typeName="unreadtransmittalto"/>
    <Type totalCount="4" typeName="unreadtransmittalcc"/>
    <Type totalCount="1"
typeName="responserequiredtransmittal-OUTSTANDING"/>
    <Type totalCount="1"
typeName="responserequiredtransmittal-OVERDUE"/>
    <Type totalCount="1" typeName="unreadshare"/>
    <Type totalCount="1" typeName="awaitingreview"/>
  </Feature>

  <Feature totalCount="3" featureName="Supplier Documents">
    <Type totalCount="2" typeName="supplierdocssubmissionrequired"/>
    <Type totalCount="1" typeName="supplierdocssubmitted"/>
  </Feature>

</Tasks>
```

Error Codes Specific to the Service

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

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not Applicable.

Related APIs

- Task List Service

Task List

The service returns detailed information for tasks for a specified task type and project.

Notes:

1. Paged searching is mandatory for the service.
2. Page size is fixed to maximum of 25 tasks per response.

URL structure

```
HTTP POST:  
https://{hostname}/api/projects/{projectId}/tasks?task_type={taskType}&page_number={pageNumber}
```

Parameters

Parameters	Type(maxlength)	Cardinality	Notes
task_type	String	1	task_type is mandatory. One of: <ul style="list-style-type: none">• Mail :<ul style="list-style-type: none">• unreadto• unreadcc• responserequired-OUTSTANDING• responserequired-OVERDUE• awaitingapproval• Register :<ul style="list-style-type: none">• unreadtransmittalto• unreadtransmittalcc• responserequiredtransmittal-OUTSTANDING• responserequiredtransmittal-OVERDUE• unreadshare• awaitingreview• Supplier Documents:<ul style="list-style-type: none">• supplierdocssubmissionrequired• supplierdocssubmitted
page_number	Integer	1	page_number is mandatory. Note: Any value greater than 0 is accepted

Expected Response

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.

Parameters	Type(maxlength)	Cardinality	Notes
Tasks	Group	1	
*Task	Group	1...n	n refers to the number of tasks found for a given project , given task type and page number
*totalResultsOnPage	Integer	1	Refers to the total number of tasks found for a given project, given task type on a given page
**AssignedByOrg	String	0..1	This value is available to all task types except awaitingapproval and awaitingreview
**CreationDate	String	1	UTC format
**Description	String	1	

**ProjectId	String	1	
**ProjectName	String	1	
**ReferenceLabel	String	1	
**StepName	String	0..1	Only available for "awaitingreview" task type
**AggregateCount	Integer	0..1	Only available for "awaitingreview" task type
**DueDate	String	0..1	UTC format , Only available below task types <ul style="list-style-type: none"> • responserequired-OUTSTANDING • responserequired-OVERDUE • responserequiredtransmittal-OUTSTANDING • responserequiredtransmittal-OVERDUE • awaitingreview
**AssignedByUser	String	0..1	Only available for "awaitingapproval" task type
**MailId	String	0..1	Only available for below task types <ul style="list-style-type: none"> • unreadto • unreadcc • unreadtransmittalto • unreadtransmittalcc • unreadshare • responserequired-OUTSTANDING • responserequired-OVERDUE • responserequiredtransmittal-OUTSTANDING • responserequiredtransmittal-OVERDUE

Examples/Samples

Sample Request for task type unreadto

Task List for a given project with id : 1879048194 and task type "unreadto"

```
https://aui.aconex.com/api/projects/1879048194/tasks?task_type=unreadto&page_number=1
```

Sample Response for above request

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Tasks totalResultsOnPage="2">
  <Task>
    <AssignedByOrg>Walla</AssignedByOrg>
    <CreationDate>2004-05-25T00:19:48.307Z</CreationDate>
    <Description>external wall</Description>
    <ProjectId>1879048194</ProjectId>
    <ProjectName>Moonlight</ProjectName>
    <ReferenceLabel>AA-000001</ReferenceLabel>
  </Task>
  <Task>
    <AssignedByOrg>High Rise Architecture </AssignedByOrg>
    <CreationDate>2004-05-24T23:01:09.703Z</CreationDate>
    <Description>Project Update Meeting</Description>
    <ProjectId>1879048194</ProjectId>
    <ProjectName>Moonlight</ProjectName>
    <ReferenceLabel>MEMO-000004</ReferenceLabel>
  </Task>
</Tasks>
```

Sample Request for task type awaitingapproval

(Task List for a given project with id : 1879048194 and task type "awaitingapproval")

```
https://aul.aconex.com/api/projects/1879048194/tasks?task_type=awaitingapproval&page_number=1
```

Sample Response for above request

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Tasks totalResultsOnPage="1">
  <Task>
    <AssignedByUser>Walla</AssignedByUser>
    <CreationDate>2004-05-25T00:19:48.307Z</CreationDate>
    <Description>Mail Approval task type</Description>
    <ProjectId>1879048194</ProjectId>
    <ProjectName>Moonlight</ProjectName>
    <ReferenceLabel>DRAFT-00003</ReferenceLabel>
  </Task>
</Tasks>
```

Sample Request for task type awaitingreview

(Task List for a given project with id : 1879048194 and task type "awaitingreview")

```
https://aul.aconex.com/api/projects/1879048194/tasks?task_type=awaitingreview&page_number=1
```

Sample Response for above request

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Tasks totalResultsOnPage="1">
  <Task>
    <aggregateCount>1</aggregateCount>
    <creationDate>2011-01-26T23:32:44.997Z</creationDate>
    <description>One step workflow- new</description>
    <dueDate>2011-01-27T23:32:44.880Z</dueDate>
    <projectId>1879048194</projectId>
    <projectName>Moonlight</projectName>
    <referenceLabel>WF-000002</referenceLabel>
    <stepName>one step</stepName>
  </Task>
</Tasks>
```

Error Codes Specific to the Service

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

Prerequisites

Required Permissions

There are no required permissions to use this service.

Preferences/Module Setup

Not Applicable.

Related APIs

- Task Count Service

Additional to above services, a set of OAuth2 services are available, described in a separate specification.
