



OpenSRS Mail API

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Introduction

The OpenSRS Mail API (OMA) is the provisioning interface for the OpenSRS email system. It allows you to create, modify, and delete mailboxes, aliases, domains, and other aspects of the service.

The OMA is a stateless web service. The interaction between the API and a client consists of a single HTTP POST request and an HTTP response. Clients are not required to log in and maintain a connection, and every request is independent. The HTTP requests and responses are formatted as JSON data. For a full description of the JSON data format, see <http://www.json.org/>.

Roles

The actions that a user is allowed to perform are specified by the **role** that is assigned to that user. A role is a named set of permissions that allows a user to perform some set of actions.

The administrator roles are:

Company administrator

Performs all functions of a domain administrator in all domains within their company, and can edit their company information and suspend accounts. They can also add or remove domains and create and assign administrators, including Company mail, Company read only, and Company view admins.

Company mail

Can view and edit non-billable mailbox settings, cannot create or delete mailboxes or edit domain settings.

Company read only

Can view everything that a company administrator can, but does not have the ability to make changes.

Company token only

Can generate SSO tokens for users in any domains in their company. This is their only responsibility; they cannot view or change settings for domains or users.

Company view

Can view all domains in the company, and can make non-billable changes to mailboxes and domains, but does not have the ability to create or delete mailboxes or domains.

Domain administrator

Performs all functions of a workgroup administrator. In addition, they can add or remove workgroups and workgroup administrators as well as manage their domain. If you enable Mailbox Admin in the Branding tool, Domain Administrators can also create and edit mailbox accounts through the Webmail interface.

Mail administrator

Manages mailboxes within the domain for which they are administrators. Typical tasks may be changing passwords, setting forwarding, adding or removing nicknames, and setting autoresponders.

Workgroup administrator

Creates, deletes, and manages mailboxes within the workgroups for which they are administrators.

Sending requests

All requests are made by sending an HTTP POST request to the URI for an API method, for example, <https://api.hostedemail.com/method>.

The base URI for the OMA differs, depending on the OpenSRS email environment:

- Production Test—<https://admin.test.hostedemail.com/api>
- Cluster A—<https://admin.a.hostedemail.com/api>
- Cluster B—<https://admin.b.hosedemail.com/api>

The rest of the URI is the method name. For example, to call the **get_user** method on Cluster A, you would send the following HTTP POST request: https://admin.a.hostedemail.com/api/get_user.

Request format

Each OMA request consists of a single JSON object. That object must have a **credentials** object, which contains a **user** string and either a **password** or a **session_token**. The **password** is the user's password, and **session_token** is a limited-lifetime token that can be generated by using the [authenticate](#) or the [generate_token](#) method.

Note: In the examples provided in this guide, the name that you see in the user field indicates the minimum permission level required to submit the method, for example, `domain_admin@example.com` or `company_admin@example.com`.

The **credentials** object may contain a **client** key with a string value. This value is used for internal logging.

The request may also contain other key-value pairs, depending on the method being called.

```
"credentials":{
  "user": "<user name>",
  "password": "<user password>",
  "token": "<session token>",
  "client": "<client id string>"
}
```

Example request

```
{
  "credentials":{
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh",
```

```

    "client": "My OMA Client v1.0"
  }
  ...
}

```

Response format

All responses consist of a single JSON object that contains a **success** boolean value. If the value is **false**, the response object also contains an error number and text to help you determine what caused the error. Regardless of the value of **success**, the response may also contain some additional data. For requests that query or change multiple objects, the response may contain success and error fields for each object.

Example error response

```

{
  "success": false,
  "error_number": 1,
  "error": "Invalid credentials supplied in request"
}

```

Example success response

```

{
  "success": true,
  "....."
}

```

Errors

HTTP errors

If you send a request to a valid URI, and the request contains properly formatted JSON, you should always receive a response with the status **200** (OK) and a JSON formatted response. The OMA requests always result in one of the following response codes:

Error code	Meaning
200	OK, the response to the request follows in the response body.
400	Bad Request. The request contained badly formatted JSON or was otherwise badly formatted.
404	Not Found. Non-existent method requested.
500	Internal Server Error. Something went terribly wrong and it's not the user's fault.

API errors

For methods that deal with multiple objects, for example **restore_deleted_messages**, the response contains an array of objects, and each object has its own **success** and potentially **error** and **error_number** fields. In that case, you may see one of the following error response codes:

Error code	Error text	Meaning
0	Server error.	Returned when something goes wrong and it is not the client's fault.
1	Invalid credentials supplied in request.	Returned when the user name or password is not valid.
2	The requested object does not exist.	Returned when the object (user, domain, brand, etc) being queried, changed or deleted does not exist.
3	This object is an alias.	Returned when the name of an object to be changed in a request is an alias or an object. Objects can only be changed via their real name.
4	Requestor lacks permission to change one or more of the requested attributes.	Returned when the request specifies a change to an attribute that the user does not have permission to change.
5	Request badly formatted (missing required field, or field is not the correct data type).	Returned when the request is not properly formatted.
6	One or more attributes badly formatted.	Returned when the request to change an object contains an unrecognized attribute or an attribute value that is not well formatted. For example, the value of the key filter might not be a valid number.
7	An object with this name already exists.	Returned when the request to create an object names an object that already exists.
8	Domain does not exist.	Returned when the domain containing an object (user or workgroup) does not exist.
9	Requestor does not own this object or lacks permission to perform this action.	Returned when the user lacks permission to perform the requested action.
10	The requested object is not empty.	Returned when the request asks to delete an object, but the object is not empty (for example to delete a domain but the domain contains users).
11	Company does not exist.	Returned with the company containing an object to be changed (domain, brand) does not exist.

Error code	Error text	Meaning
12	Role does not exist	Returned when attempting to add a non-existent role to a user.
13	User does not exist	Returned when attempting to do something with a user (post a bulletin to a test user) and that user does not exist.
14	Brand in use	Returned when attempting to delete a brand, and that brand is assigned to a user, domain or company.
15	Domain users full	Returned when attempting to create a user, and the user's domain is at its user limit.
16	Domain aliases full	Returned when attempting to create an alias to a user and the domain is at its alias limit.
17	Not in	Returned when an operation requires a user to be an member of something and the user is not.
18	Workgroup is default	Returned when attempting to delete a workgroup that is the domain's default workgroup.
19	Migration Job Exists	Returned when attempting to create a new migration job, and a migration job with the given ID already exists.
20	Try again later	A transient system error occurred. Not the caller's fault. Method should be retried.

Example clients

Perl and LWP

Note: In the test environment, Perl and LWP based requests may fail and return the error: 500 Can't connect to admin.test.hostedemail.com:443 (certificate verify failed) due to the test environment SSL certificate being invalid.

To bypass certificate checking, you can use the following line in your script:
`$ENV{'PERL_LWP_SSL_VERIFY_HOSTNAME'} = 0;`

The Perl script below lists a number of modules that need to be installed. In addition to these, and to make an HTTPS connection using LWP, please ensure you have the following module installed:

LWP::Protocol::https

```
#!/usr/bin/perl
use strict;
use warnings;
use JSON;
```

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```
use LWP::UserAgent;
use Data::Dumper;
my $api_url = 'https://admin.a.hostedemail.com/api';
my $method = 'get_user';
my $url = $api_url . $method;
my $credentials = {
    'user' => 'domain_admin@example.com',
    'password' => 'sw0rdfs1sh'
};
my $user = 'someguy@example.com';
my %request_body = (
    'credentials' => $credentials,
    'user' => $user,
);
# encode request in JSON
my $json_request = encode_json(\%request_body);
# send request to API
my $ua = LWP::UserAgent->new;
my $request = HTTP::Request->new(POST => $url);
$request->content_type('application/json');
$request->content($json_request);
my $response = $ua->request($request);
if ($response->is_success) # HTTP success
{
    # convert response from JSON to a perl hash
    my $response_body = from_json($response->content());
    print Dumper $response_body;
}
else
{
    print "Something went terribly wrong\n";
    print $response->status_line, "\n";
}
```

Data constraints

This section explains the data rules that must be followed when submitting HTTP POST requests.

Email addresses

Format: *user@domain*.

- **user**—Can be anything enclosed in quotes except the characters " or \ or a string.
 - starting with a-z, A-Z, 0-9 ! # \$ & ' * + - / = ? ^ _ ` { | } ~
 - consisting of a-z, A-Z, 0-9 ! # \$ & ' * + - / = ? ^ _ ` { | } ~ .
 - not containing consecutive dots .
- **domain**—Can be between 3 and 160 ASCII characters consisting of 2 or more dot-separated domain labels. A domain label is between 1 and 63 ASCII characters, starting and ending with 0-9, A-Z, a-z and consisting of 0-9, A-Z, a-z or hyphen.

Wildcard email address

- Between 1 and 128 characters consisting of a-z A-Z 0-9 ! @ # \$ % & ' " * + - / = ? ^ _ ` { | } ~ .
- The * character matches any string of 0 or more characters, and may span all parts of the email address, for example, abc*ef matches abcdef@domain.pef . The + character matches any single character.

OMA email address

OMA email addresses are addresses that can be created on the OpenSRS Email System and are more restrictive than general email addresses.

Format: *user@domain*

- **user**—Can be between 1 and 64 ASCII characters starting with 0-9A-Za-z._-], starting with 0-9, A-Z, a-z, and containing 0-9, A-Z, a-z, hyphen, underscore, or dot, but not containing adjacent dots.
- **domain**—Can be between 3 and 160 characters consisting of 2 or more dot separated labels. A domain label is between 1 and 63 ASCII characters, starting and ending with 0-9, A-Z, a-z and consisting of 0-9, A-Z, a-z or hyphen.

Password

- Can be plain text or encrypted.
- If plain text, the text can be between 1 and 54 characters.

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- If encrypted, it is a JSON string consisting of an encryption type in curly braces followed by 1 to 150 characters.
- Allowed encryption types are: MD5 CRYPT DES SHA SHA1 SHA224 SHA256 SHA384 SHA512 SSHA SSHA1 SSHA224 SSHA256 SSHA384 SSHA512.
- Passwords are always stored and retrieved encrypted. If a plain text password is assigned, it will be encrypted before it is stored.

Domain

- A JSON string between 3 and 160 ASCII characters consisting of 2 or more dot separated labels.
- A domain label is between 1 and 63 ASCII characters, starting and ending with 0-9, A-Z, a-z and consisting of 0-9, A-Z, a-z or hyphen.

Text

- A JSON string consisting of between 1 and 127 ASCII characters.

UNIX time

- A number, a UNIX epoch time.

UTF-8 text

- A JSON String consisting of any characters.

Authentication methods

This section contains the following methods:

- `authenticate`—Verifies a set of user credentials.
- `echo`—Returns the JSON request.

authenticate

Description

The **authenticate** method verifies a set of user credentials.

Note: This method allows you to verify a user's credentials. You do not need to issue this request before submitting other methods however, since all methods contain a credentials object.

Syntax

```
{
  <credentials object>: {
    "fetch_extra_info": true | false
    "generate_session_token": true | false
    "token": string
    "session_token_duration": "seconds"
  }
}
```

Request fields for authenticate

The following fields can be used in the **authenticate** method:

Field name	Obligation	Definition/Value
fetch_extra_info	Optional	Returns additional information about the user. If set to true , the response will contain the extra_info field.
generate_session_token	Optional	If set to true , returns a session token and the duration of the token.
session_token_duration	Optional	The duration of the session token, in seconds. Value can be a number between 1 and 86400 (24 hours). If not specified, the default is 10800 (3 hours). Note: This field is ignored unless generate_session_token = true .
token	Optional	Specify the token that you want to use. If generate_session_token is true , this string will be used as the token.

Response fields for authenticate

The following fields may be returned in response to the **authenticate** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
extra_info	Returned if success = true and request contains fetch_extra_info .	A list of the user's attributes that may be useful for an interactive client to populate a UI.
session_token	Returned if success = true and request contains generate_session_token = true	A generated string that can be used in place of the user's password for a limited time. The time begins when the request is submitted and lasts for the number of seconds specified in session_token_duration .
session_token_duration	Returned if success = true and request contains generate_session_token = true	The number of seconds for which the session token is active. If session_token_duration is not specified in the request, this value defaults to 10800 (3 hours); otherwise, it uses the value submitted in the request.
success	Always returned	Indicates whether the request was successful or not. Allowed values are TRUE and FALSE .

Examples for authenticate

Example 1

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  }
}
```

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```
}  
  "fetch_extra_into": true,  
  "generate_session_token": true  
}
```

Response

```
{  
  "success": true,  
  "extra_info": {  
    "roles": {  
      "domain": [  
        "example.com"  
      ]  
    },  
    "macsettings":  
    "entries_per_page=30;theme=default;search_pages=50;loglevel=90;lang=en;  
    "  
  },  
  "session_token": "69dala00117f157537ce785230414ddd",  
  "session_token_duration": 10800,  
}
```

Example 2

Request

```
{  
  "credentials": {  
    "user": "domain_admin@example.com",  
    "password": "pencil75"  
  },  
  "fetch_extra_info": true,  
  "generate_session_token": true,  
  "token": "gabbagabba"  
}
```

Response

```
{
```

Authentication methods

```
"success": true,  
"extra_info": {  
  "roles": {  
    "domain": [  
      "example.com"  
    ]  
  },  
  "macsettings": null  
},  
"session_token": "gabbagabba",  
"session_token_duration": 10800,  
"audit": "flesh36_4f183f46b"  
}
```

echo

Description

The **echo** method returns the JSON request and has no other effect. It is used for testing and debugging.

Syntax

Request

```
{  
  <any valid JSON>  
}
```

Response

```
{  
  <Request JSON>  
}
```

Examples for echo

Request

```
{  
  "Animal Count": {  
    "dog": 5,  
    "cat": 10,  
    "cow": 2,  
    "chicken": 9  
  },  
  "Farm": "MacDonald Farm LLC",  
  "cluck-cluck": [  
    "here",  
    "there",  
    "everywhere"  
  ]  
}
```

Response

```
{
  "Animal Count": {
    "dog": 5,
    "cat": 10,
    "cow": 2,
    "chicken": 9
  },
  "Farm": "MacDonald Farm LLC",
  "cluck-cluck": [
    "here",
    "there",
    "everywhere"
  ]
}
```

Company methods

This section contains the following methods:

- `change_company`—Changes the attributes of an existing company.
- `change_company_bulletin`—Creates, changes, or deletes a company-level bulletin.
- `get_company`—Retrieves settings and other information for a specified company.
- `get_company_bulletin`—Retrieves the text of a specified company-level bulletin.
- `get_company_changes`—Retrieves a summary of the changes that have been made to a company.
- `post_company_bulletin`—Sends the specified bulletin to all users in all domains in the company.
- `search_admins`—Retrieves a list of the admins in a specified company.

change_company

Description

The **change_company** method changes the attributes of an existing company.

Syntax

```
{
  <credentials object>,
  "company": company_name,
  "attributes": <attributes>
}
```

Request fields for change_company

The following fields can be used in the **change_company** method:

Field name	Obligation	Definition/Value
attributes	Required	A hash of company level attributes and values. For more information, see the Attributes table below.
company	Required	The name of the company you want to change.

Attributes fields

You can specify the following fields within the **attributes** array.

Field name	Obligation	Definition/Value
allow	Optional	A list of senders whose messages are not scanned for spam; may include wildcards. For example joe_goodguy@bigmail.com and *@example.com. Maximum 1000 addresses.
block	Optional	A list of email addresses whose messages will always be identified as spam; may include wildcards. For example, bob_thejerk@othermail.com and *@spammers-inc.com. Messages from these addresses will always be considered to be spam. Maximum is 1000 addresses.

Field name	Obligation	Definition/Value
brand	Optional	The default brand that is used for domains that do not have a brand assigned.
contacts	Optional	A list of up to 100 company contacts. <ul style="list-style-type: none"> ▪ email—The contact's email address. ▪ name—The contact's name; maximum 128 characters. ▪ notes—Optional notes; maximum 1024 characters. ▪ phone—The contact's phone number; maximum 64 characters. ▪ type—The type of contact. Allowed value is abuse.
default_password_encoding	Optional	The type of password hashing/encoding to be performed when OpenSRS receives an unencrypted password to store for a user. We recommend BCrypt encoding.
filterdelivery	Optional	The value that is used for domains in the company that do have this attribute set. Allowed values are: <ul style="list-style-type: none"> ▪ quarantine—Spam messages are stored locally in the user's spam folder. ▪ passthrough—Spam messages are delivered with the specified spamtag and spamheader.
language	Optional	The default Webmail UI language for new domains in the company. A list of valid languages is displayed in the metadata -> options field in the <u>get_company</u> response.
limit_aliases	Optional	The maximum number of aliases that can be created for domains in this company.
limit_users	Optional	The maximum number of users that can be created in domains in the company.
notes_external	Optional	Any notes you want to add to the company. Maximum is 4096 characters.

Field name	Obligation	Definition/Value
quota	Optional	The default quota assigned to new domains created in this company, in megabytes (MB).
quota_maximum	Optional	The maximum quota (in megabytes) that can be set for domains in this company.
regen_passwords	Optional	If set to true , the next time a user logs in, their passwords will be converted to the encoding specified in default_password_encoding (if their current encoding differs from the one specified in default_password_encoding).
service_imap4	Optional	The default setting for new domains for the IMAP4 service (enabled , disabled , or suspended). If enabled , new users can log in via IMAP4.
service_pop3	Optional	The default setting for new domains for the POP3 service (enabled , disabled , or suspended). If enabled , new users can log in via POP3.
service_smtpin	Optional	The current default setting for new users for the SMTPIN service (enabled , disabled , or suspended). If enabled , new users can send email.
service_smtprelay	Optional	The default setting for new users for the SMTPRELAY service (enabled , disabled , or suspended).
service_smtprelay_webmail	Optional	The default setting for new users for the SMTPRELAY Webmail service (enabled , disabled , or suspended). If enabled , new users can send email via Webmail.
service_webmail	Optional	The default setting for new users for the Webmail service (enabled , disabled , or suspended). If enabled , new users can log in via Webmail.
smtp_sent_limit	Optional	The default maximum number of messages that users in the company can send in a 24 hour period if this value is not set at the user or domain level. Maximum value is 10,000. Note: If the same message is sent to two recipients, it counts as two messages against this limit.

Field name	Obligation	Definition/Value
spamfolder	Optional	The folder to which messages that have been identified as spam are delivered if this value is not set at the user or domain level. Maximum 128 characters.
spamheader	Optional	The tag that will be assigned to the header of spam messages if not set at the user or domain level. The format for the header must be [Capital letter]anything[:] anything. For example, XSpam: Spam detected. Maximum 512 characters.
spamlevel	Optional	The level of aggressiveness for spam filtering if not set at the user or domain level. Allowed values are: Normal , High , and Very High .
spamttag	Optional	The tag that is appended to an email message to identify spam if this value is not set at the user or domain level. Maximum 30 characters.
stats_mailout	Optional	The addresses to which company snapshots emails are sent for the company. Maximum 100 email addresses.
timezone	Optional	The default timezone for domains in the company. A list of valid timezones is displayed in the metadata -> options field in the <u>get_company</u> response.
wm_domainalias	Optional	The default value assigned to new domains in the company. If set to true , Webmail will offer users different From addresses based on domain aliases.

Response fields for change_company

The following fields may be returned in response to the **change_company** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.

Field name	Obligation	Description/Value
error_number	Returned if success = false	A number that represents the error.
hints	Returned if success = false	Lists one or more attributes that had errors and suggests a possible cause of each error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for change_company

Example 1

Changes the spamtag and block attributes

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "company": "Example Corp",
  "attributes": {
    "spamtag": "[JUNK]",
    "block": [
      "*@spammers.com"
    ]
  }
}
```

Response

```
{
  "success": true
}
```

Example 2

Adds a note to the company

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Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "company": "Example Corp",
  "attributes": {
    "notes_external": "Talk to Bob before changing any settings here"
  }
}
```

Response

```
{
  "success": true
}
```

change_company_bulletin

Description

The **change_company_bulletin** method creates, changes, or deletes a company-level bulletin.

If a bulletin with the specified name and type does not exist, that bulletin is created. If a bulletin with the specified name and type exists and **bulletin_text** is submitted in the method, the existing bulletin is changed. If a bulletin with the specified name and type exists and **bulletin_text** is not submitted, the existing bulletin is deleted.

Syntax

```
{
  <credentials object>,
  "company": <company_name>,
  "bulletin": <bulletin_name>,
  "type": auto | manual,
  "bulletin_text": <bulletin_text>
}
```

Request fields for change_company_bulletin

The following fields can be used in the **change_domains** method:

Field name	Obligation	Definition/Value
bulletin	Required	The name of the bulletin you want to create, change, or delete. Note: All bulletins in a company must have a unique type and name. That is, it is possible for an auto bulletin and a manual bulletin to have the same name, but not for two auto bulletins to have the same name.
bulletin_text	Optional	The text of the bulletin. Bulletins must be formatted as a raw email. If the bulletin_text does not contain a Date header, a header will be appended, with the date that the bulletin was posted. The text can include the following variables: <ul style="list-style-type: none"> ▪ {'account'}—The recipient's mailbox address (joe_user@example.com). ▪ {'domain'}—The domain to which the user belongs (example.com). ▪ {'name'}—The recipient's name.

Field name	Obligation	Definition/Value
		<ul style="list-style-type: none"> ▪ <code>{'title'}</code>—The recipient's title.
company	Required	The name of the company.
type	Required	Specify the bulletin type. Allowed values are: <ul style="list-style-type: none"> ▪ auto—The bulletin is automatically sent to new users when their accounts are created. ▪ manual—The bulletin is sent only when the post_company_bulletin method is run.

Response fields for change_company_bulletin

The following fields may be returned in response to the `change_company_bulletin` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for change_company_bulletin

Example 1

Creates a new auto bulletin.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdfish"
  },
  "company": "Example Corp",
  "bulletin": "Fridge",
  "type": "auto",
```

```
"From: Mister Manager <mrmanager@example.com>
Subject: Please empty the fridge!
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Dear {'title'} {'name'},
Please empty kitchen refrigerator regularly.
Thank you.
M. Manager""
}
```

Response

```
{
  "success": true
}
```

Example 2

Edits the an existing bulletin.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdfish"
  },
  "company": "Example Corp",
  "bulletin": "Fridge",
  "type": "auto",
  "bulletin_text":
"From: Mister Manager <mrmanager@example.com>
Subject: Please empty the fridge!
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Dear {'title'} {'name'},
Please empty *all* your items from the kitchen refrigerator *every*
Friday. I cannot stress how much of a priority this is.
M. Manager"
}
```

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Response

```
{  
  "success": true  
}
```

Example 3

Deletes a bulletin.

Request

```
{  
  "credentials": {  
    "user": "company_admin@example.adm",  
    "password": "sw0rdfish"  
  },  
  "company": "Example Corp",  
  "bulletin": "Fridge",  
  "type": "auto"  
}
```

Response

```
{  
  "success": true  
}
```

get_company

Description

The **get_company** method retrieves settings and other information for a specified company.

Syntax

Request

```
{
  <credentials object>,
  "company": <company name>
```

Response

```
{
  "success": true,
  "settable_attribute": [list of attribute names],
  "metadata":
  {
    "options": {key value pairs}
    "bulletins":
    {
      "manual": [{bulletin info}, {bulletin info}, ...],
      "auto": [{bulletin info}, {bulletin info}, ...]
    },
    "createtime": <company creation time>
    "inherit": {
      "brand": <brand>,
      "default_password_encoding": <encoding type>,
      "filterdelivery": <quarantine | passthrough>,
      "smtp_sent_limit": <number>,
      "spamfolder": <folder>,
      "spamheader": <header>,
      "spamtag": <tag>,
      "spamlevel": <level>
    }
  },
}
```

```
"attributes": {key value pairs}
}
```

Request fields for get_company

The following fields can be used in the `get_company` method:

Field name	Obligation	Definition/Value
company	Required	The company whose settings you want to view.

Response fields for get_company

The following fields may be returned in response to the `get_company` method:

Field name	Obligation	Description/Value
attributes	Returned if company exists	A list of the attributes and values associated with the company. For more information, see the Attributes table below.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
metadata	Returned if company exists or can be created	Allowed values are: bulletins, createtime, default_password_encoding, inherit, and options. For more information, see the Metadata table below.
settable_attribute	Returned if company exists or can be created	The attributes that can be set and the services that can be enabled, disabled, or suspended. Allowed values are: allow, block, brand, contacts, default_password_encoding, filterdelivery, language, limit_aliases, limit_users, notes_external, quota, regen_passwords, service_imap4, service_pop3, service_smtpin, service_smtprelay, service_smtprelay_webmail, service_webmail, spamfolder, spam_header, spamlevel, spamtag, stats_mailout, timezone, and wm_domainalias.

Field name	Obligation	Description/Value
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Attributes fields

The following fields may be returned within the **attributes** array.

Field name	Obligation	Definition/Value
account	Always returned	The company name.
allow	Optional	A list of senders whose messages are not scanned for spam; may include wildcards. For example joe_goodguy@bigmail.com and *@example.com. Maximum 1000 addresses.
block	Optional	A list of email addresses whose messages will always be identified as spam; may include wildcards. For example, bob_thejerk@othermail.com and *@spammers-inc.com. Messages from these addresses will always be considered to be spam. Maximum is 1000 addresses.
brand	Optional	The default brand that is used for domains that do not have a brand assigned.
contacts	Optional	A list of up to 100 company contacts. <ul style="list-style-type: none"> ▪ email—The contact's email address. ▪ name—The contact's name; maximum 128 characters. ▪ notes—Optional notes; maximum 1024 characters ▪ phone—The contact's phone number; maximum 64 characters ▪ type—The type of contact. Allowed values are business, technical, emergency, abuse, and billing.
default_password_encoding	Optional	The type of password hashing/encoding to be performed when OpenSRS receives an unencrypted password to store for a user.
filterdelivery	Optional	The value that is used for domains in the company that do have this attribute set. Allowed values are: <ul style="list-style-type: none"> ▪ quarantine—Spam messages are

Field name	Obligation	Definition/Value
		<p>stored locally in the user's spam folder.</p> <ul style="list-style-type: none"> ▪ passthrough—Spam messages are delivered with the specified spamtag and spamheader.
language	Optional	The default Webmail UI language for new domains in the company.
limit_aliases	Optional	The maximum number of aliases that can be created for domains in this company.
limit_users	Optional	The default maximum number of users that can be created in domains in this company.
notes_external	Always returned	Any notes that were added through the change_company method. Maximum is 4096 characters. If there are no notes, returns null .
osrs_id	Optional	The OpenSRS Reseller ID associated with the company.
quota	Optional	The default quota assigned to new domains created in this company, in megabytes (MB).
quota_maximum	Optional	The maximum quota (in Megabytes) that can be set for domains in this company.
regen_passwords	Optional	If set to true , the next time a user logs in, their passwords will be converted to the encoding specified in default_password_encoding (if their current encoding differs from the one specified in default_password_encoding).
service_imap4	Optional	The default setting for new domains for the IMAP4 service (enabled , disabled , or suspended). If enabled , new users can log in via IMAP4.
service_pop3	Optional	The default setting for new domains for the POP3 service (enabled , disabled , or suspended). If enabled , new users can log in via POP3.
service_smtpin	Optional	The current default setting for new users for the SMTPIN service (enabled , disabled , or suspended). If enabled , new users can send email.
service_smtprelay	Optional	The default setting for new users for the SMTPRELAY service (enabled , disabled , or suspended).

Field name	Obligation	Definition/Value
service_smtprelay_webmail	Optional	The default setting for new users for the SMTPRELAY Webmail service (enabled , disabled , or suspended). If enabled , new users can send email via Webmail.
service_webmail	Optional	The default setting for new users for the Webmail service (enabled , disabled , or suspended). If enabled , new users can log in via Webmail.
smtp_sent_limit	Optional	The default maximum number of messages that users in the company can send in a 24 hour period if this value is not set at the user or domain level. Note: If the same message is sent to two recipients, it counts as two messages against this limit.
spamfolder	Optional	The folder to which messages that have been identified as spam are delivered if this value is not set at the user or domain level. Maximum 128 characters.
spamheader	Optional	The tag that will be assigned to the header of spam messages if not set at the user or domain level. The format for the header must be [Capital letter] <i>anything</i> [:] <i>anything</i> . For example, XSpam: Spam detected. Maximum 512 characters.
spamlevel	Optional	The level of aggressiveness for spam filtering if not set at the user or domain level. Allowed values are: Normal , High , and Very High .
spamtag	Optional	The tag that is appended to an email message to identify spam if this value is not set at the user or domain level. Maximum 30 characters.
stats_mailout	Optional	The addresses to which company snapshots emails are sent for the company.
timezone	Optional	The default timezone for domains in the company.
wm_domainalias	Optional	The default value assigned to new domain in the company. If set to true , Webmail will offer users different From addresses based on domain aliases.

Metadata fields

The following fields may be returned in the **metadata** array:

Field name	Obligation	Description/Value
bulletins	Returned if company exists	<p>A hash of the manual and auto bulletins that exist in the company. Includes the following:</p> <ul style="list-style-type: none"> ▪ count—The number of users to whom the bulletin was delivered. ▪ last—The last time (date and time) that the bulletin was sent. ▪ mtime—The last time that the bulletin was sent, in UNIX Epoch time. ▪ name—The name of the bulletin. ▪ total—The number of users to whom the bulletin is being sent. <p>Note: If the bulletin job has completed, the values for count and total will be the same.</p>
createtime	Returned if company exists	The date and time when the company was created, displayed in UNIX epoch time.
inherit	Returned if company exists	<p>The values that will be assigned if they are not explicitly set for this company. Includes the following:</p> <ul style="list-style-type: none"> ▪ brand—The Webmail brand for this company. ▪ default_password_encoding—The type of password hashing/encoding to be performed when OpenSRS receives an unencrypted password. ▪ filterdelivery—The way in which spam messages are handled. ▪ spamfolder—The folder into which messages identified as spam will be delivered. ▪ spamheader—The tag that is added to messages that are identified as spam. ▪ spamtage—The value of this field is prepended to the subject of any message that is identified as spam. ▪ spamlevel—The level of aggressiveness set for the spam filter.
options	Returned if company exists	The list of settings that can be set or changed for the company. Includes all available values for each setting to allow a UI client to populate a page of attributes and drop-down options.

Field name	Obligation	Description/Value
		<p>Allowed settings are brand, default_password_encoding, language, quota, spamlevel, and timezone.</p> <p>For an explanation of each of these values, see the Attributes table above.</p>

Examples for get_company

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "company": "Example Corp"
}
```

Response

```
{
  "success": true,
  "settable_attributes": [
    "allow",
    "block",
    "brand",
    "contacts",
    "default_password_encoding",
    "filterdelivery",
    "language",
    "limit_aliases",
    "limit_users",
    "notes_external",
    "quota",
    "regen_passwords",
    "service_imap4",
    "service_pop3",
  ]
}
```

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```
"service_smtpin",
"service_smtprelay",
"service_smtprelay_webmail",
"service_webmail",
"spamfolder",
"spamheader",
"spamlevel",
"spamttag",
"stats_mailout",
"timezone",
"wm_domainalias"
],
"metadata": {
  "options": {
    "quota": [
      0,
      15360
    ],
    "quota_maximum": [
      0,
      1048576
    ],
    "default_password_encoding": [
      null,
      "MD5",
      "SSHA224",
      "SSHA256",
      "SSHA384",
      "SSHA512",
      "BCRYPT-6",
      "BCRYPT-8",
      "BCRYPT-10",
      "BCRYPT-12"
    ],
    "timezone": [
```

"Pacific/Wake",
"Pacific/Niue",
"Pacific/Honolulu",
"America/Anchorage",
"America/Vancouver",
"America/Edmonton",
"America/Phoenix",
"America/Chicago",
"America/Mexico_City",
"America/Guatemala",
"America/Montreal",
"America/Havana",
"America/Lima",
"America/Caracas",
"America/Halifax",
"America/Asuncion",
"America/Santiago",
"America/Puerto_Rico",
"America/La_Paz",
"America/St_Johns",
"America/Sao_Paulo",
"America/Montevideo",
"America/Buenos_Aires",
"Atlantic/South_Georgia",
"America/Noronha",
"Atlantic/Azores",
"Atlantic/Cape_Verde",
"Europe/London",
"Africa/Casablanca",
"Atlantic/Reykjavik",
"Europe/Amsterdam",
"Africa/Algiers",
"Asia/Beirut",
"Europe/Helsinki",
"Europe/Minsk",

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"Europe/Istanbul",
"Asia/Amman",
"Asia/Damascus",
"Asia/Jerusalem",
"Africa/Cairo",
"Africa/Johannesburg",
"Europe/Moscow",
"Asia/Baghdad",
"Asia/Tehran",
"Asia/Baku",
"Asia/Dubai",
"Indian/Mauritius",
"Asia/Kabul",
"Asia/Karachi",
"Asia/Colombo",
"Asia/Calcutta",
"Asia/Kathmandu",
"Asia/Dhaka",
"Asia/Rangoon",
"Asia/Bangkok",
"Asia/Phnom_Penh",
"Asia/Hong_Kong",
"Australia/Perth",
"Asia/Tokyo",
"Australia/Adelaide",
"Australia/Darwin",
"Australia/Melbourne",
"Australia/Brisbane",
"Australia/Lord_Howe",
"Pacific/Guadalcanal",
"Pacific/Norfolk",
"Pacific/Fiji",
"Pacific/Auckland",
"Asia/Anadyr",
"Pacific/Chatham",

```
    "Pacific/Tongatapu",
    "Pacific/Kiritimati"
  ],
  "language": [
    "el",
    "en",
    "es",
    "fr",
    "de",
    "it",
    "pt_BR",
    "nl",
    "da",
    "no",
    "sv"
  ],
  "brand": [
    null,
    "Default Brand",
    "Demo Co Brand",
    "Demo Co Test Brand"
  ],
  "spamlevel": [
    null,
    "Very High",
    "High",
    "Normal"
  ]
},
"inherit": {
  "default_password_encoding": "BCRYPT-10",
  "spamfolder": ".Spam",
  "spamheader": null,
  "brand": "bcom1",
  "spamtag": null,
```

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```
    "filterdelivery": "local",
    "spamlevel": "90"
  },
  "bulletins": {
    "manual": [],
    "auto": [
      {
        "count": "1",
        "mtime": 1326400098,
        "last": "Thu Jan 12 20:41:26 2012",
        "name": "Fridge",
        "total": "1"
      }
    ]
  },
  "createtime": "1321901788"
},
"attributes": {
  "quota": 5120,
  "quota_maximum": 15360,
  "service_smtprelay": "enabled",
  "spamheader": null,
  "spamfolder": null,
  "brand": null,
  "filterdelivery": null,
  "service_smtpin": "enabled",
  "limit_users": null,
  "service_imap4": "enabled",
  "contacts": [
    {
      "email": "mrmanager@example.com",
      "types": [
        "business"
      ],
      "name": "Mister Manager",
```

```

    "phone": "416 555 1234"
  },
  {
    "email": "jack_user@example.com",
    "types": [
      "emergency",
      "abuse"
    ],
    "notes": "Surly after 2am",
    "name": "Jack User",
    "phone": "647 555 5309"
  }
],
"wm_domainalias": null,
"timezone": "America/Montreal",
"language": "en",
"smtp_sent_limit": "500",
"regen_passwords",
"default_password_encoding": "BCRYPT-12",
"account": "Demo Corp",
"service_pop3": "enabled",
"osrs_id": null,
"spamtag": "[JUNK]",
"service_smtprelay_webmail": "enabled",
"block": [
  "*@spammers.com"
],
"allow": [],
"limit_aliases": null,
"service_webmail": "enabled",
"stats_mailout": [],
"notes_external": "Before changing settings, talk to Steve",
"spamlevel": null
}
}

```

get_company_bulletin

Description

The `get_company_bulletin` method retrieves the text of a specified company-level bulletin.

Note: To get a list of all current bulletins, use the [get_company](#) method.

Syntax

```
{
  <credentials object>,
  "company": <company_name>,
  "bulletin": <bulletin_name>,
  "type": auto | manual
}
```

Request fields for get_company_bulletin

The following fields can be used in the `get_company_bulletin` method:

Field name	Obligation	Definition/Value
bulletin	Required	The name of the bulletin you want to view.
company	Required	The name of the company.
type	Required	Specify the bulletin type. Allowed values are: <ul style="list-style-type: none"> ▪ auto—The bulletin is automatically sent to new users when their accounts are created. ▪ manual—The bulletin is sent only when the post_company_bulletin method is run.

Response fields for get_company_bulletin

The following fields may be returned in response to the `get_company_bulletin` method:

Field name	Obligation	Description/Value
bulletin_text	Returned if success = true	The text of the bulletin.
error	Returned if success =	A text string that explains the error.

Field name	Obligation	Description/Value
	false	
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for get_company_bulletin

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdfish"
  },
  "company": "Example Corp",
  "bulletin": "Fridge",
  "type": "auto"
}
```

Response

```
{
  "success": true,
  "bulletin_text": "From: Mister Manager <mrmanager@example.com>
Subject: Please empty the fridge!
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Dear {'title'} {'name'},
Please empty all your items from the kitchen refrigerator every
Friday. I cannot stress how much of a priority this is.
M. Manager "
```

get_company_changes

Description

The **get_company_changes** method retrieves a summary of the changes that have been made to a company.

Syntax

```
{
  <credentials object>,
  "company": <company_name>,
  "range": {
    "first": <number>
    "limit": <number>
  }
}
```

Request fields for get_company_changes

The following fields can be used in the **get_company_changes** method:

Field name	Obligation	Definition/Value
company	Required	The name of the company.
range	Optional	The range of results to return. Allowed values are: <ul style="list-style-type: none"> ▪ first—The 0-based index of the first result to return. ▪ limit—The maximum number of results to return.

Response fields for get_company_changes

The following fields may be returned in response to the **get_company_changes** method:

Field name	Obligation	Description/Value
changes	Returned if success = true	An array of hashes, one hash for each change returned. The array is sorted by the time of the change, with the earliest change listed first. For each change the following information is returned: <ul style="list-style-type: none"> ▪ application—The name of the application used to perform the change. ▪ msg—A brief summary of the change

Field name	Obligation	Description/Value
		<p>made. If the changed data is short, it is shown; otherwise, the number of bytes in the new value is shown.</p> <ul style="list-style-type: none"> ▪ time—The time that the change was made, in UNIX Epoch time. ▪ user—The name of the user that performed the change. If the change was performed by the system, the user "OpenSRS" is shown.
count	Returned if success = true	The number of items (changes) in the array.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
total_count	Returned if success = true	The total number of changes available.

Examples for get_company_changes

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "range": {
    "first": 0,
    "limit": 500
  },
  "company": "Example Corp"
}
```

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Response

```
{
  "success": true,
  "count": 18,
  "total_count": 18,
  "changes": [
    {
      "msg": "created 1321901787707",
      "time": "1321901787",
      "application": "OMA",
      "user": "OpenSRS"
    },
    {
      "msg": "changed quota [5368709120S,2684354C]",
      "time": "1321901788",
      "application": "OMA",
      "user": "OpenSRS"
    },
    {
      "msg": "changed quota_maximum [15360]",
      "time": "1321901788",
      "application": "OMA",
      "user": "OpenSRS"
    },
    {
      "msg": "changed disabled [0]",
      "time": "1321901788",
      "application": "OMA",
      "user": "OpenSRS"
    },
    {
      "msg": "changed createtime [1321901788]",
      "time": "1321901788",
      "application": "OMA",
      "user": "OpenSRS"
    }
  ]
}
```

```
},
{
  "msg": "changed smtprelay_webmail [1]",
  "time": "1321901788",
  "application": "OMA",
  "user": "OpenSRS"
},
{
  "msg": "changed pop3 [1]",
  "time": "1321901788",
  "application": "OMA",
  "user": "OpenSRS"
},
{
  "msg": "changed smtp_sent_limit [500]",
  "time": "1321901788",
  "application": "OMA",
  "user": "OpenSRS"
},
{
  "msg": "changed imap4 [1]",
  "time": "1321901788",
  "application": "OMA",
  "user": "OpenSRS"
},
{
  "msg": "changed account [1321901787707]",
  "time": "1321901788",
  "application": "OMA",
  "user": "OpenSRS"
},
{
  "msg": "changed webmail [1]",
  "time": "1321901788",
  "application": "OMA",
```

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```
    "user": "OpenSRS"
  },
  {
    "msg": "changed smtprelay [1]",
    "time": "1321901788",
    "application": "OMA",
    "user": "OpenSRS"
  },
  {
    "msg": "changed smtpin [1]",
    "time": "1321901788",
    "application": "OMA",
    "user": "OpenSRS"
  },
  {
    "msg": "changed timezone [America/Montreal]",
    "time": "1321901788",
    "application": "OMA",
    "user": "OpenSRS"
  },
  {
    "msg": "changed language [en]",
    "time": "1321901788",
    "application": "OMA",
    "user": "OpenSRS"
  },
  {
    "msg": "changed name [Example Corp]",
    "time": "1321901788",
    "application": "OMA",
    "user": "OpenSRS"
  },
  {
    "msg": "changed spamtag [[JUNK]]",
    "time": "1326401277",
```

```
"application": "OMA",
"user": "company_admin@example.adm"
},
{
  "msg": "changed block [*@spammers.com]",
  "time": "1326401294",
  "application": "OMA",
  "user": "company_admin@example.adm"
}
]
}
```

post_company_bulletin

Description

The **post_company_bulletin** method sends the specified bulletin to all users in all domains in the company.

Note: To get a list of all current bulletins, use the [get_company](#) method.

Syntax

```
{
  <credentials object>,
  "company": <company_name>,
  "bulletin": <bulletin_name>,
  "type": auto | manual,
  "test_email": <email_address>
},
}
```

Request fields for post_company_bulletin

The following fields can be used in the **post_company_bulletin** method:

Field name	Obligation	Definition/Value
bulletin	Required	The name of the bulletin you want to view.
company	Required	The name of the company.
test_email	Optional	Sends the bulletin to only the specified email address.
type	Required	Specify the bulletin type. Allowed values are: <ul style="list-style-type: none"> ▪ auto—The bulletin is automatically sent to new users when their accounts are created. ▪ manual—The bulletin is sent only when the post_company_bulletin method is run.

Response fields for `post_company_bulletin`

The following fields may be returned in response to the `post_company_bulletin` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for `post_company_bulletin`

Example 1

Sends a bulletin to `mrmanager@example.com`.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdfish"
  },
  "company": "Example Corp",
  "bulletin": "Fridge",
  "type": "manual",
  "test_email": "mrmanager@example.com"
}
```

Response

```
{
  "success": true
}
```

Example 2

Sends a bulletin to all users in all domains in the company Example Corp.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "company": "Example Corp",
  "bulletin": "Fridge",
  "type": "auto"
}
```

Response

```
{
  "success": true
}
```

search_admins

Description

The **search_admins** method retrieves a list of the admins in a specified company.

Syntax

```
{
  <credentials object>
  "criteria": {
    "company": <company>,
    "type": [<one or more of company, domain, mail, workgroup>],
    "match": <wildcard pattern>
  }
  "range": {
    "first": <number>,
    "limit": <number>
  }
}
```

Request fields for search_admins

The following fields can be used in the search_admins method:

Field name	Obligation	Definition/Value
criteria	Optional	<p>Narrows the results by restricting the search to the specified fields and their values.</p> <p>Allowed values are:</p> <ul style="list-style-type: none"> • company—The company to search for admins. If not specified, the requester's company is used. • match—Returns only those admins whose user names matches the specified pattern. You can use the following wildcards: <ul style="list-style-type: none"> • ?—Match a single character • *—Match a string of characters. • type—Returns only admins of the specified type. Allowed values are: company, domain, mail, and workgroup. If not specified, admins of all types are returned. <p>Note: The criteria values work together, so if</p>

Field name	Obligation	Definition/Value
		both a type and match are specified, the response includes only admins of the specified type that also match the pattern.
range	Optional	Limits the range of admins to display. Allowed values are: <ul style="list-style-type: none"> • first—The 0-based index of the first admin to return; the default is the first result. • limit—The maximum number of results to return.

Response fields for search_admins

The following fields may be returned when the search_admins method is submitted:

Field name	Obligation	Description/Value
admins	Returned if success = true	A list of the admins that meet the criteria and their attributes. Allowed values are: <ul style="list-style-type: none"> • control—The area of responsibility that the admin controls. For company admins this displays the company name, for domain and mail admins it displays the domain name for workgroup admins it displays <i>domain/workgroup</i>. • type—The type of admin. Allowed values are: company, domain, mail, and workgroup. • user—The admin's user name.
count	Returned if success = true	The number of admins returned.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false.
total_count	Returned if success = true	The total number of admins that match the search criteria. This value may be more than the number of results returned if a range was specified in the request.

Examples for search_admins

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  }
}
```

Response

```
{
  "success": true,
  "count": 3,
  "total_count": 3
  "admins": [
    {
      "user": "company_admin@example.adm",
      "type": "company",
      "control": [
        "Example Corp"
      ]
    },
    {
      "user": "domain_admin@example.com",
      "type": "domain",
      "control": [
        "example.com"
      ]
    },
    {
      "user": "mrmanager@example.com",
      "type": "workgroup",
      "control": [
        "example.com/sales"
      ]
    }
  ]
}
```

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```
    ]  
  }  
],  
}
```

Domain methods

This section contains the following methods:

- `change_domain`—Creates a new domain or modifies the attributes of an existing domain.
- `change_domain_bulletin`—Creates, edits, or deletes a domain bulletin.
- `delete_domain`—Deletes a domain.
- `get_domain`—Retrieves the settings and information for a specified domain.
- `get_domain_bulletin`—Returns the text of a specified bulletin.
- `get_domain_changes`—Retrieves a summary of the changes that have been made to a domain.
- `post_domain_bulletin`—Sends a specified bulletin to all users in a domain.
- `restore_domain`—Restores a deleted domain.
- `search_domains`—Retrieves a list of domains in a company.

change_domain

Description

The **change_domain** method creates a new domain or modifies the attributes of an existing domain.

Syntax

```
{
  <credentials object>,
  "domains": <domain>
  "attributes":
    {
      <key value pairs>
    },
}
```

Request fields for change_domain

The following fields can be used in the **change_domain** method:

Field name	Obligation	Definition/Value
attributes	Required	The list of fields that you want to configure and their values. For more information, see the Attributes table below.
create_only	Optional	Used to prevent changes to existing domains. If set to true and the specified domain exists, the domain will not be modified and an error will be returned.
domain	Required	The domain that you want to create or change.

Attributes fields

You can specify the following fields within the **attributes** array.

Field name	Obligation	Definition/Value
aliases	Optional	A list of alternate names for the domain. Users in the domain can receive mail that is sent to an alias domain. For example, if example-

Field name	Obligation	Definition/Value
		corporation.com is an alias for example.com, so mail that is sent to joe_user@example-corporation.com will be delivered to joe_user@example.com The maximum number of aliases is 2000.
allow	Optional	A list of senders whose messages are not scanned for spam; may include wildcards. For example joe_goodguy@bigmail.com and *@example.com. Maximum is 1000 addresses.
block	Optional	A list of email addresses whose messages will always be identified as spam; may include wildcards. For example, bob_thejerk@othermail.com and *@spammers-inc.com. Messages from these addresses will always be considered to be spam. Maximum is 1000 addresses.
brand	Optional	The default brand used for mailboxes in the domain. If undefined, the company brand is used.
catchall	Optional	If set, any mail sent to a mailbox in the domain that does not exist will be sent to the specified mailbox. Note: This feature cannot be enabled for new domains.
default_password_encoding	Optional	The type of password hashing/encoding to be performed when OpenSRS receives an unencrypted password to store for a user. We recommend BCrypt encoding.
disabled	Optional	If set to true , mailboxes in the domain will not function.
filterdelivery	Optional	The way in which spam messages are handled by the OpenSRS email filter. Allowed values are: <ul style="list-style-type: none"> ▪ quarantine—Spam messages are stored locally in the user's spam folder. ▪ passthrough—Spam messages are delivered with the specified spamtag and spamheader. If undefined, the company's value is used.
filtermx	Optional	The mail server (and optionally, SMTP port) to which messages received by filter users in this domain are sent after spam and virus scanning.

Field name	Obligation	Definition/Value
language	Optional	The default Webmail UI language for new users in the domain. May be overridden by the user. A list of valid languages is displayed in the metadata -> options field in the <u>get_domain</u> response.
limit_aliases	Optional	The maximum number of aliases that can be created for mailboxes in the domain. If this number is less than the number of aliases currently in the domain, no new aliases can be created. If not defined, any number of aliases can be created.
limit_users	Optional	The maximum number of users that can be created in the domain. If this number is less than the number of users currently in the domain, no new users can be created. If undefined, any number of users can be created.
notes_external	Optional	Any notes you want to add to the domain. Maximum is 4096 characters.
quota	Optional	The default maximum amount of storage (in bytes) that new mailboxes may use, including mail and file storage.
quota_maximum	Optional	The default maximum quota (in Megabytes) that can be assigned to any mailbox in the domain.
regen_passwords	Optional	If set to true , the next time a user logs in, their passwords will be converted to the encoding specified in default_password_encoding (if their current encoding differs from the one specified in default_password_encoding).
service_imap4	Optional	The default setting for new users for the IMAP4 service (enabled , disabled , or suspended). If enabled , new users can log in via IMAP4.
service_pop3	Optional	The default setting for new users for the POP3 service (enabled , disabled , or suspended). If enabled , new users can log in via POP3.
service_smtpin	Optional	The default setting for new users for the SMTPIN service (enabled , disabled , or suspended). If enabled , new users can send email.
service_smtprelay	Optional	The default setting for new users for the SMTPRELAY service (enabled , disabled , or suspended).

Field name	Obligation	Definition/Value
service_smtprelay_webmail	Optional	The default setting for new users for the SMTPRELAY Webmail service (enabled , disabled , or suspended). If enabled , new users can send email via Webmail.
service_webmail	Optional	The default setting for new users for the Webmail service (enabled , disabled , or suspended). If enabled , new users can log in via Webmail.
smtp_sent_limit	Optional	The default maximum number of messages that the user can send in a 24 hour period. Maximum number is 10,000. If not defined, the company's smtp_sent_limit is used.
spamfolder	Optional	The folder to which messages that have been identified as spam are delivered. Maximum 128 characters.
spamheader	Optional	The tag that will be assigned to the header of spam messages. The format for the header must be [Capital letter] <i>anything</i> [:] <i>anything</i> . For example, XSpam: Spam detected. Maximum 512 characters.
spamlevel	Optional	The level of aggressiveness for spam filtering. Allowed values are: Normal , High , and Very High .
spamtage	Optional	The tag that is appended to an email message to identify it as spam. Maximum 30 characters.
timezone	Optional	The default Webmail UI timezone for users in this domain. A list of valid timezones is displayed in the metadata -> options field in the <u>get_domain</u> response.
wm_domainalias	Optional	If set to true , Webmail will offer users different From addresses based on domain aliases.
workgroup	Optional	The default workgroup to which new accounts in the domain will belong.

Response fields for change_domain

The following fields may be returned in response to the **change_domain** method:

Field name	Obligation	Description/Value
------------	------------	-------------------

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
hints	Returned if success = false	Lists one or more attributes that had errors and suggests a possible cause of each error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for change_domain

Example 1

Changes the **allow** attribute.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdflsh"
  },
  "domain": "example.com",
  "attributes": {
    "allow": [
      "*@example.com",
      "important_stuff@otherco.com"
    ]
  }
}
```

Response

```
{
  "success": true
}
```

Example 2

Adds a note to the domain

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "domain": "example.com",
  "attributes": {
    "notes_external": "Has not paid.\nDo NOT enable without consulting
Finance."
  }
}
```

Response

```
{
  "success": true
}
```

Example 3

Attempts to create a domain that already exists (with **create_only** flag)

Request

```
{
  "attributes": {},
  "domain": "gob.com",
  "create_only": true,
  "credentials": {...}
}
```

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Response

```
{  
  "success":false,  
  "error_number":23,  
  "error":"Object already exists",  
  "audit":"anger67_50c235f128"  
}
```

change_domain_bulletin

Description

The **change_domain_bulletin** method allows you to create, edit, or delete a domain bulletin.

If a bulletin with the specified name and type does not exist, that bulletin is created. If a bulletin with the specified name and type exists and **bulletin_text** is submitted in the method, the existing bulletin is changed. If a bulletin with the specified name and type exists and **bulletin_text** is not submitted, the existing bulletin is deleted.

Syntax

```
{
  <credentials object>,
  "domain": <domain>,
  "bulletin": <bulletin name>,
  "type": auto | manual,
  "bulletin_text": <bulletin text>
}
```

Request fields for change_domain_bulletin

The following fields can be used in the **change_domain_bulletin** method:

Field name	Obligation	Definition/Value
bulletin	Required	The name of the bulletin you want to create, edit, or delete. Note: All bulletins in a domain must have a unique type and name. That is, it is possible for an auto bulletin and a manual bulletin to have the same name, but not for two auto bulletins to have the same name.
bulletin_text	Optional	The text of the bulletin. Bulletins must be formatted as a raw email. If the bulletin_text does not contain a Date header, a header will be appended, with the date that the bulletin was posted. The text can include the following variables: <ul style="list-style-type: none"> ▪ {'account'}—The recipient's mailbox address (joe_user@example.com). ▪ {'domain'}—The domain to which the user

Field name	Obligation	Definition/Value
		belongs (example.com). <ul style="list-style-type: none"> ▪ {'name'}—The recipient's name. ▪ {'title'}—The recipient's title.
domain	Required	The domain to which the bulletin applies.
type	Required	The bulletin delivery method. Allowed values are: <ul style="list-style-type: none"> ▪ auto—Bulletin is automatically sent to newly created users ▪ manual—Bulletins are only sent via the post_domain_bulletin method.

Response fields for change_domain_bulletin

The following fields may be returned in response to the `change_domain_bulletin` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for change_domain_bulletin

Example 1

Creates a new auto bulletin.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "domain": "example.com",
  "bulletin": "Welcome Message",
```

```

    "type": "auto",
    "bulletin_text":
"From: Mister Manager <mrmanager@example.com>
Subject: Welcome!
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Hello {'title'} {'name'},
Welcome to Example Corporation, source of the worlds best demo
examples.
FYI, your email address is {'account'}
Please let me know if you need any further assistance.
M. Manager"
}

```

Response

```

{
  "success": true
}

```

The method above results in a message that is delivered to the user that looks like this:

```

From: Mister Manager <mrmanager@example.com>
Subject: Welcome!
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Date: Thu Jan 5 20:10:20 2012
Hello Mr. Jason User,
Welcome to Example Corporation, source of the worlds best demo examples.
FYI, your email address is jay_user@example.com
Please let me know if you need any further assistance.
M. Manager

```

Example 2

Edits an existing bulletin.

Request

```

{
  "credentials": {

```

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```
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "domain": "example.com",
  "bulletin": "Welcome Message",
  "type": "auto",
  "bulletin_text":
"From: Mister Manager <mrmanager@example.com>
Subject: Welcome!
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Hello {'title'} {'name'},
Welcome to Example Corporation source of the worlds best demo examples.
FYI, your email address is {'account'}
Please contact Janice if you have any questions.
M. Manager"
}
```

Response

```
{
  "success": true
}
```

Example 3

Deletes a bulletin.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "domain": "example.com",
  "bulletin": "Welcome Message",
  "type": "auto"
}
```

Response

```
{  
  "success": true  
}
```

delete_domain

Description

The **delete_domain** method deletes a domain. The domain must not have any users in it.

Syntax

```
{
  <credentials object>,
  "domain": <domain_name>
}
```

Request fields for delete_domain

The following fields can be used in the **delete_domain** method:

Field name	Obligation	Definition/Value
domain	Required	The name of the domain that you want to delete.

Response fields for delete_domain

The following fields may be returned in response to the **delete_domain** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for delete_domain

Request

```
{
  "credentials":{
    "user": "company_admin@example.adm",
    "password": "seekrit"
  }
  "domain": "example2.com",
}
```

Response

```
{
  "success": true
}
```

get_domain

Description

The **get_domain** method retrieves the settings and information for a specified domain.

Syntax

Request

```
{  
  <credentials object>,  
  "domain": <domain name>  
}
```

Response

If the domain exists and the user can access it

```
{  
  "success": true,  
  "settable_attribute": [list of attribute names],  
  "metadata":  
  {  
    "options": {key value pairs}  
    "bulletins":  
    {  
      "manual": [{bulletin info}, {bulletin info}, ...],  
      "auto": [{bulletin info}, {bulletin info}, ...]  
    },  
    "createtime": <domain creation time>  
  },  
  "inherit":  
    "default_password_encoding": <encoding type>,  
    "brand": <brand>,  
    "filterdelivery": <quarantine | passthrough>,  
    "smtp_sent_limit": <number>,  
    "spamfolder": <folder>,  
    "spamheader": <header>,  
    "spamtage": <tag>,  
  },  
}
```

```

        "spamlevel": <level>
    }
},
"attributes": {key value pairs}
}

```

If the domain does not exist but the user could create it

```

{
  "success": false,
  "error_number": 2,
  "error": "The requested object does not exist",
  "settable_attribute" [list of attribute names],
  "metadata":
  {
    "options": {key value pairs}
    "defaults": {key value pairs}
  },
}

```

Request fields for get_domain

The following fields can be used in the **get_domain** method:

Field name	Obligation	Definition/Value
domain	Required	The domain whose settings you want to view.

Response fields for get_domain

The following fields may be returned in response to the **get_domain** method:

Field name	Obligation	Description/Value
attributes	Returned if domain exists	A list of the attributes and values associated with the domain. For more information, see the Attributes table below.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.

Field name	Obligation	Description/Value
metadata	Returned if domain exists or can be created	Allowed values are: bulletins , createtime , defaults , inherit , and options . For more information, see the Metadata table below.
settable_attribute	Returned if domain exists or can be created	The attributes that can be set and the services that can be enabled, disabled, or suspended. Allowed values are: aliases , allow , block , brand , default_password_encoding , disabled , filterdelivery , filtermx , language , limit_aliases , limit_users , notes_external , quota , quota_maximum , regen_passwords , service_imap4 , service_pop3 , service_smtpin , service_smtprelay , service_smtprelay_webmail , service_webmail , spamfolder , spam_header , spamlevel , spamtage , stats_mailout , timezone , wm_domainalias , and workgroup .
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Attributes fields

The following fields may be returned within the **attributes** array.

Field name	Obligation	Definition/Value
account	Always returned	The domain name.
aliases	Optional	A list of alternate names for the domain. Users in the domain can receive mail that is sent to an alias domain. For example, if example-corporation.com is an alias for example.com, so mail that is sent to joe_user@example-corporation.com will be delivered to joe_user@example.com. The maximum number of aliases is 2000.
allow	Optional	A list of senders whose messages are not scanned for spam; may include wildcards. For example joe_goodguy@bigmail.com and *@example.com. Maximum is 1000 addresses.
block	Optional	A list of email addresses whose messages will always be identified as spam; may include wildcards. For example,

Field name	Obligation	Definition/Value
		bob_thejerk@othermail.com and *@spammers-inc.com. Messages from these addresses will always be considered to be spam. Maximum is 1000 addresses.
brand	Optional	The default brand used for mailboxes in the domain. If undefined, the company brand is used.
catchall	Optional	If set, any mail sent to a mailbox in the domain that does not exist will be sent to the specified mailbox. Note: This feature cannot be enabled for new domains.
company	Always returned	The company to which the domain belongs.
default_password_encoding	Optional	The type of password hashing/encoding to be performed when OpenSRS receives an unencrypted password to store for a user.
disabled	Optional	If set to true , mailboxes in the domain will not function.
filterdelivery	Optional	The way in which spam messages are handled by the OpenSRS email filter. Allowed values are: <ul style="list-style-type: none"> ▪ quarantine—Spam messages are stored locally in the user's spam folder. ▪ passthrough—Spam messages are delivered with the specified spamtag and spamheader. If undefined, the company's value is used.
filtermx	Optional	The mail server (and optionally SMTP port) to which messages received by filter users in this domain are sent after spam and virus scanning.
language	Optional	The default Webmail UI language for new users in the domain. May be overridden by the user.
limit_aliases	Optional	The maximum number of aliases that can be created for mailboxes in the domain. If this number is less than the number of aliases currently in the domain, no new aliases can be created. If not defined, any number of aliases can be created.

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Field name	Obligation	Definition/Value
limit_users	Optional	The maximum number of users that can be created in the domain. If this number is less than the number of users currently in the domain, no new users can be created. If undefined, any number of users can be created.
notes_external	Always returned	Any notes that were added through the change_domain method. Maximum is 4096 characters. If there are no notes, returns null .
password	Optional	Indicates whether a password is set. If a password exists, it is displayed as ***** If there is no password, the returned value is null .
quota	Optional	The default maximum amount of storage (in bytes) that new mailboxes may use, including mail and file storage.
quota_maximum	Optional	The default maximum quota (in Megabytes) that can be assigned to any mailbox in the domain.
regen_passwords	Optional	If set to true , the next time a user logs in, their passwords will be converted to the encoding specified in default_password_encoding (if their current encoding differs from the one specified in default_password_encoding).
service_imap4	Optional	The default setting for new users in the domain (enabled , disabled , or suspended). If enabled , new users can log in via IMAP4.
service_pop3	Optional	The default setting for new users in the domain (enabled , disabled , or suspended). If enabled , new users can log in via POP3.
service_smtpin	Optional	The default setting for new users in the domain (enabled , disabled , or suspended). If enabled , new users can send email.
service_smtprelay	Optional	The default setting for new users in the domain (enabled , disabled , or suspended).
service_smtprelay_webmail	Optional	The default setting for new users in the domain (enabled , disabled , or suspended). If enabled , new users send email via Webmail.

Field name	Obligation	Definition/Value
service_webmail	Optional	The default setting for new users in the domain (enabled , disabled , or suspended). If enabled , new users can log in via Webmail.
smtp_sent_limit	Optional	The default maximum number of messages that the user can send in a 24 hour period. Maximum number is 10,000. If not defined, the company's smtp_sent_limit is used.
spamfolder	Optional	The folder to which messages that have been identified as spam are delivered.
spamheader	Optional	The tag that will be assigned to the header of spam messages. The format for the header must be [Capital letter]anything[:] anything. For example, XSpam: Spam detected.
spamlevel	Optional	The level of aggressiveness for spam filtering. Allowed values are: Normal , High , and Very High .
spamtage	Optional	The tag that is appended to an email message to identify it as spam.
stats_mailout	Optional	The addresses to which snapshots of domain usage are sent. Maximum is 100 addresses.
timezone	Optional	The default Webmail UI timezone for users in the domain.
wm_domainalias	Optional	If set to true , Webmail will offer users different From addresses based on domain aliases.
workgroup	Optional	The default workgroup to which new accounts in the domain will belong.

Metadata fields

The following fields may be returned in the **metadata** array:

Field name	Obligation	Description/Value
bulletins	Returned if domain exists	A hash of the manual and auto bulletins that exist in the domain. Includes the following: <ul style="list-style-type: none"> ▪ count—The number of users to whom the bulletin was delivered. ▪ last—The last time (date and time) that the bulletin was sent.

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ mtime—The last time that the bulletin was sent, in UNIX Epoch time. ▪ name—The name of the bulletin. ▪ total—The number of users to whom the bulletin is being sent. <p>Note: If the bulletin job has completed, the values for count and total will be the same.</p>
createtime	Returned if domain exists	The date and time when the domain was created, displayed in UNIX Epoch time.
defaults	Returned if domain doesn't exist but can be created	<p>The default settings and values that will be applied to newly created domains. Includes disabled, language, quota, quota_maximum, service_pop3, service_imap4, service_smtpin, service_smtprelay, service_smtprelay_webmail, service_webmail, timezone, and workgroup.</p> <p>For an explanation of each of these settings, see the Attributes table above.</p>
inherit	Returned if domain exists	<p>The company level values that will be assigned if they are not explicitly set for this domain. Includes the following:</p> <ul style="list-style-type: none"> ▪ brand—The Webmail brand for this domain. ▪ default_password_encoding—The type of password hashing/encoding to be performed when OpenSRS receives an unencrypted password. ▪ filterdelivery—The way in which spam messages are handled. ▪ regen_passwords—If set to true, the next time a user logs in, their passwords will be converted to the encoding specified in default_password_encoding ▪ smtp_sent_limit—The number of messages that the domain is allowed to send in a 24 hour period. ▪ spamfolder—The folder into which messages identified as spam will be delivered. ▪ spamheader—The tag that is added to messages that are identified as spam.

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ spamtag—The value of this field is prepended to the subject of any message that is identified as spam. ▪ spamlevel—The level of aggressiveness set for the spam filter.
options	Returned if domain exists	<p>The list of settings that can be set or changed for a domain. Includes all available values for each setting to allow a UI client to populate a page of attributes and drop-down options. Allowed settings are brand, default_password_encoding, language, quota, quota_maximum, spamlevel, timezone, and workgroup.</p> <p>For an explanation of each of these settings, see the Attributes table above.</p>

Examples for get_domain

Example 1

Retrieves settings and information for an existing domain.

Request

```
{
  "credentials":{
    "user": "company_admin@example.adm",
    "password": "seekrit"
  }
  "domain": [
    "example.com",
  ]
}
```

Response

```
{
  "success": true,
  "settable_attributes": [
    "aliases",
    "allow",
    "block",
```

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```
"brand",
"default_password_encoding",
"disabled",
"filterdelivery",
"filtermx",
"language",
"limit_aliases",
"limit_users",
"notes_external",
"quota",
"quota_maximum",
"regen_passwords",
"service_imap4",
"service_pop3",
"service_smtpin",
"service_smtprelay",
"service_smtprelay_webmail",
"service_webmail",
"spamfolder",
"spamheader",
"spamlevel",
"spamttag",
"stats_mailout",
"timezone",
"wm_domainalias",
"workgroup"
],
"metadata": {
  "options": {
    "quota": [
      0,
      15360
    ],
    "default_password_encoding": [
      null,
```

```
"MD5",
"SSHA224",
"SSHA256",
"SSHA384",
"SSHA512",
"BCRYPT-6",
"BCRYPT-8",
"BCRYPT-10",
"BCRYPT-12"
],
"workgroup": [
  "contract",
  "interns",
  "sales",
  "sales_europe",
  "staff",
  "stock_holders",
  "sysadmins"
],
"quota_maximum": [
  0,
  15360
],
"timezone": [
  "Pacific/Wake",
  "Pacific/Niue",
  "Pacific/Honolulu",
  "America/Anchorage",
  "America/Vancouver",
  "America/Edmonton",
  "America/Phoenix",
  "America/Chicago",
  "America/Mexico_City",
  "America/Guatemala",
  "America/Montreal",
```

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"America/Havana",
"America/Lima",
"America/Caracas",
"America/Halifax",
"America/Asuncion",
"America/Santiago",
"America/Puerto_Rico",
"America/La_Paz",
"America/St_Johns",
"America/Sao_Paulo",
"America/Montevideo",
"America/Buenos_Aires",
"America/Noronha",
"Atlantic/South_Georgia",
"Atlantic/Azores",
"Atlantic/Cape_Verde",
"Europe/London",
"Africa/Casablanca",
"Atlantic/Reykjavik",
"Europe/Amsterdam",
"Africa/Algiers",
"Asia/Beirut",
"Europe/Helsinki",
"Europe/Minsk",
"Europe/Istanbul",
"Asia/Amman",
"Asia/Damascus",
"Asia/Jerusalem",
"Africa/Cairo",
"Africa/Johannesburg",
"Europe/Moscow",
"Asia/Baghdad",
"Asia/Tehran",
"Asia/Baku",
"Asia/Dubai",

```
"Indian/Mauritius",
"Asia/Kabul",
"Asia/Karachi",
"Asia/Colombo",
"Asia/Calcutta",
"Asia/Kathmandu",
"Asia/Dhaka",
"Asia/Rangoon",
"Asia/Bangkok",
"Asia/Phnom_Penh",
"Asia/Hong_Kong",
"Australia/Perth",
"Asia/Tokyo",
"Australia/Adelaide",
"Australia/Darwin",
"Australia/Melbourne",
"Australia/Brisbane",
"Australia/Lord_Howe",
"Pacific/Guadalcanal",
"Pacific/Norfolk",
"Pacific/Fiji",
"Pacific/Auckland",
"Asia/Anadyr",
"Pacific/Chatham",
"Pacific/Tongatapu",
"Pacific/Kiritimati"
],
"language": [
  "el",
  "en",
  "es",
  "fr",
  "de",
  "it",
  "pt_BR",
```

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```
    "nl",
    "da",
    "no",
    "sv"
  ],
  "brand": [
    null,
    "Default Brand",
    "Example Co Brand"
  ],
  "spamlevel": [
    null,
    "Very High",
    "High",
    "Normal"
  ]
},
"bulletins": {
  "manual": [],
  "auto": [
    {
      "count": "8",
      "mtime": 1325878560,
      "last": "Fri Jan 6 19:52:24 2012",
      "name": "Welcome Message",
      "total": "8"
    }
  ]
},
"createtime": "1321901972"
},
"attributes": {
  "quota": 5120,
  "disabled": false,
  "quota_maximum": 15360,
```

```
"spamfolder": null,  
"service_smtprelay": "enabled",  
"spamheader": null,  
"brand": null,  
"catchall": null,  
"service_smtpin": "enabled",  
"filterdelivery": null,  
"company": "Example Corp",  
"limit_users": null,  
"filtermx": null,  
"service_imap4": "enabled",  
"wm_domainalias": null,  
"language": "en",  
"password": null,  
"timezone": "America/Montreal",  
"smtp_sent_limit": null,  
"regen_passwords": true,  
"default_password_encoding": "BCRYPT-12",  
"account": "example.com",  
"service_pop3": "enabled",  
"workgroup": "staff",  
"service_smtprelay_webmail": "enabled",  
"spamttag": null,  
"aliases": [  
  "schmemoco.com"  
],  
"allow": [  
  "*@example.com",  
  "important_stuff@otherco.com"  
],  
"block": [],  
"limit_aliases": null,  
"service_webmail": "enabled",  
"stats_mailout": [],  
"notes_external": "Gold support for this domain",
```

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```
    "spamlevel": null
  }
}
```

Example 2

Retrieves information and settings for a domain that does not exist but that the admin can create.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "domain": "example3.com"
}
```

Response

```
{
  "success": false,
  "settable_attributes": [
    "aliases",
    "allow",
    "block",
    "brand",
    "default_password_encoding",
    "disabled",
    "filterdelivery",
    "filtermx",
    "language",
    "limit_aliases",
    "limit_users",
    "notes_external",
    "quota",
    "quota_maximum",
    "regen_passwords",
    "service_imap4",
```

```
"service_pop3",
"service_smtpin",
"service_smtprelay",
"service_smtprelay_webmail",
"service_webmail",
"spamfolder",
"spamheader",
"spamlevel",
"spamttag",
"stats_mailout",
"timezone",
"wm_domainalias",
"workgroup"
],
"error_number": 2,
"error": "The requested object does not exist",
"metadata": {
  "options": {
    "quota": [
      0,
      1048576
    ],
    "workgroup": [],
    "quota_maximum": [
      0,
      15360
    ],
    "timezone": [
      "Pacific/Wake",
      "Pacific/Niue",
      "Pacific/Honolulu",
      "America/Anchorage",
      "America/Vancouver",
      "America/Edmonton",
      "America/Phoenix",
```

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"America/Chicago",
"America/Mexico_City",
"America/Guatemala",
"America/Montreal",
"America/Havana",
"America/Lima",
"America/Caracas",
"America/Halifax",
"America/Asuncion",
"America/Santiago",
"America/Puerto_Rico",
"America/La_Paz",
"America/St_Johns",
"America/Sao_Paulo",
"America/Montevideo",
"America/Buenos_Aires",
"America/Noronha",
"Atlantic/South_Georgia",
"Atlantic/Azores",
"Atlantic/Cape_Verde",
"Europe/London",
"Africa/Casablanca",
"Atlantic/Reykjavik",
"Europe/Amsterdam",
"Africa/Algiers",
"Asia/Beirut",
"Europe/Helsinki",
"Europe/Minsk",
"Europe/Istanbul",
"Asia/Amman",
"Asia/Damascus",
"Asia/Jerusalem",
"Africa/Cairo",
"Africa/Johannesburg",
"Europe/Moscow",

```
"Asia/Baghdad",
"Asia/Tehran",
"Asia/Baku",
"Asia/Dubai",
"Indian/Mauritius",
"Asia/Kabul",
"Asia/Karachi",
"Asia/Colombo",
"Asia/Calcutta",
"Asia/Kathmandu",
"Asia/Dhaka",
"Asia/Rangoon",
"Asia/Bangkok",
"Asia/Phnom_Penh",
"Asia/Hong_Kong",
"Australia/Perth",
"Asia/Tokyo",
"Australia/Adelaide",
"Australia/Darwin",
"Australia/Melbourne",
"Australia/Brisbane",
"Australia/Lord_Howe",
"Pacific/Guadalcanal",
"Pacific/Norfolk",
"Pacific/Fiji",
"Pacific/Auckland",
"Asia/Anadyr",
"Pacific/Chatham",
"Pacific/Tongatapu",
"Pacific/Kiritimati"
],
"language": [
  "el",
  "en",
  "es",
```

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```
    "fr",
    "de",
    "it",
    "pt_BR",
    "nl",
    "da",
    "no",
    "sv"
  ],
  "default_password_encoding": [
    null,
    "MD5",
    "SSHA224",
    "SSHA256",
    "SSHA384",
    "SSHA512",
    "BCRYPT-6",
    "BCRYPT-8",
    "BCRYPT-10",
    "BCRYPT-12"
  ],
  "brand": [
    null,
    "Default Brand",
    "Example Co Brand"
  ],
  "spamlevel": [
    null,
    "Very High",
    "High",
    "Normal"
  ]
},
"defaults": {
  "service_imap4": "enabled",
```

Domain methods

```
"quota": 5120,  
"disabled": false,  
"quota_maximum": 15360,  
"timezone": "America/Montreal",  
"language": "en",  
"service_smtprelay": "enabled",  
"service_pop3": "enabled",  
"workgroup": "staff",  
"service_smtprelay_webmail": "enabled",  
"service_smtpin": "enabled",  
"service_webmail": "enabled"  
}  
}  
}
```

get_domain_bulletin

Description

The `get_domain_bulletin` method returns the text of a specified bulletin.

Syntax

```
{
  <credentials object>,
  "domain": <domain name>,
  "bulletin": <bulletin name>,
  "type": auto | manual
}
```

Request fields for get_domain_bulletin

The following fields can be used in the `get_domain_bulletin` method:

Field name	Obligation	Definition/Value
bulletin	Required	The name of the bulletin you want to view.
domain	Required	The name of the domain the bulletin is in.
type	Required	The type of bulletin. Allowed values are: <ul style="list-style-type: none"> ▪ auto—Bulletin is automatically sent to newly created users ▪ manual—Bulletins are only sent via the post_domain_bulletin method.

Response fields for get_domain_bulletin

The following fields may be returned in response to the `get_domain_bulletin` method:

Field name	Obligation	Description/Value
bulletin_text	Returned if success = true	The text of the bulletin, including headers.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.

Field name	Obligation	Description/Value
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for get_domain_bulletin

Request

```
{
  "credentials":{
    "user": "domain_admin@example.com",
    "password": "seekrit"
  }
  "domain": "example.com",
  "bulletin": "Welcome Message",
  "type": "auto"
}
```

Response

```
{
  "success": true,
  "bulletin_text":
  "From: Mister Manager <mrmanager@example.com>
  Subject: Welcome!
  Content-Type: text/plain; charset=us-ascii
  Content-Disposition: inline
  Hello {'title'} {'name'},
  Welcome to Example Corporation source of the worlds best demo examples.
  FYI, your email address is {'account'}
  Please contact Janice if you have any questions.
  M. Manager"
}
```

get_domain_changes

Description

The **get_domain_changes** method retrieves a summary of the changes that have been made to a domain.

Syntax

```
{
  <credentials object>
  "domain":<domain>
  "range": {
    "first": <number>,
    "limit": <number>
  }
}
```

Request fields for get_domain_changes

The following fields can be used in the **get_domain_changes** method:

Field name	Obligation	Definition/Value
domain	Required	The name of the domain.
range	Optional	The range of results to return. Allowed values are: <ul style="list-style-type: none"> ▪ first—The 0-based index of the first result to return. ▪ limit—The maximum number of results to return.

Response fields for get_domain_changes

The following fields may be returned in response to the **get_domain_changes** method:

Field name	Obligation	Description/Value
changes	Returned if success = true	An array of hashes, one hash for each change returned. The array is sorted by the time of the change, with the earliest change listed first. For each change the following information is returned: <ul style="list-style-type: none"> ▪ application—The name of the application used to perform the change.

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ msg—A brief summary of the change made. If the changed data is short, it is shown; otherwise, the number of bytes in the new value is shown. ▪ time—The time that the change was made, in UNIX Epoch time. ▪ user—The name of the user that performed the change. If the change was performed by the system, the user "OpenSRS" is shown.
count	Returned if success = true	The number of items (changes) in the array.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
total_count	Returned if success = true	The total number of changes available.

Examples for get_domain_changes

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "range": {
    "first": 15,
    "limit": 5
  },
  "domain": "example.com"
}
```

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Response

```
{
  "success": true,
  "count": 3,
  "total_count": 18,
  "changes": [
    {
      "msg": "changed language [en]",
      "time": "1321901972",
      "application": "OMA",
      "user": "OpenSRS"
    },
    {
      "msg": "changed aliases [schmemoco.com]",
      "time": "1323812345",
      "application": "OMA",
      "user": "company_admin@example.adm"
    },
    {
      "msg": "changed allow
[*@example.com,important_stuff@otherco.com]",
      "time": "1323814260",
      "application": "OMA",
      "user": "company_admin@example.adm"
    }
  ]
}
```

post_domain_bulletin

Description

The **post_domain_bulletin** method sends a specified bulletin to all users in a domain.

Note: To get a list of all current bulletins, use the [get_domain](#) method.

Syntax

```
{
  <credentials object>,
  "domain": <domain_name>,
  "bulletin": <bulletin_name>,
  "type": auto | manual,
  "test_email": <email_address>
},
}
```

Request fields for post_domain_bulletin

The following fields can be used in the **post_domain_bulletin** method:

Field name	Obligation	Definition/Value
bulletin	Required	The name of the bulletin you want to view.
domain	Required	The name of the domain.
test_email	Optional	Send the bulletin to only the specified email address. If not specified, the bulletin is sent to all mailboxes in the domain.
type	Required	The bulletin type. Allowed values are: <ul style="list-style-type: none"> ▪ auto—The bulletin is automatically sent to new users when their accounts are created. ▪ manual—The bulletin is sent only when the post_domain_bulletin method is run.

Response fields for post_domain_bulletin

The following fields may be returned in response to the `post_domain_bulletin` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for post_domain_bulletin

Example 1

Sends a bulletin to just mrmanager@example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdfish"
  },
  "domain": "example.com",
  "bulletin": "Welcome Message",
  "type": "autol"
  "test_email": "mrmanager@example.com"
}
```

Response

```
{
  "success": true
}
```

Example 2

Sends a bulletin to all users in the domain example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "domain": "example.com",
  "bulletin": "Welcome Message",
  "type": "auto"
}
```

Response

```
{
  "success": true
}
```

restore_domain

Description

The `restore_domain` method restores a deleted domain.

Syntax

```
{
  <credentials object>
  "domain": <domain name>,
  "id": <domain id>,
  "new_name": <new domain name>
}
```

Request fields for restore_domain

The following fields can be used in the `restore_domain` method:

Field name	Obligation	Definition/Value
domain	Required	The current name of the domain you want to restore.
id	Required	The domain id. This value can be retrieved by using the search_domains method with the deleted field set to true .
new_name	Required	The new name for the domain. This value must be submitted, but can be the same as domain (the original domain name).

Response fields for restore_domain

The following fields may be returned in response to the `restore_domain` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for restore_domain

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "domain": "example2.com",
  "id": "1325876554",
  "new_name": "example2-restored.com"
}
```

Response

```
{
  "success": true,
}
```

search_domains

Description

The **search_domains** method retrieves a list of domains in a company.

Syntax

```
{
  <credentials object>
  "criteria": {
    "company": <company>,
    "type": [<domain and/or alias>,
    "match": <wildcard pattern>,
    "deleted": true | false
  }
  "range": {
    "first": <number>,
    "limit": <number>
  }
  "sort": {
    "by": delete_time | domain | id | type | users | users/filter |
users/forward | users/mailbox | users/alias | users/deleted,
    "direction": ascending | descending
  }
}
```

Request fields for search_domains

The following fields can be used in the **search_domains** method:

Field name	Obligation	Definition/Value
criteria	Optional	<p>Narrows the results by restricting the search to the specified fields and their values.</p> <p>Allowed values are:</p> <ul style="list-style-type: none"> ▪ company—The company to search for domains. If not specified, the requestor's company is used. ▪ deleted—If set to true, only deleted domains are returned; if set to false or not specified, only existing domains are returned. ▪ match—Returns only those domains that

Field name	Obligation	Definition/Value
		<p>match the specified pattern. You can use the following wildcards:</p> <ul style="list-style-type: none"> ▪ ?—Match a single character ▪ *—Match a string of characters. ▪ type—Returns only domains of the specified type. Allowed values are: <ul style="list-style-type: none"> ▪ domain—Regular domains ▪ alias—Alias domains
range	Optional	<p>Limits the range of domains to display. Allowed values are:</p> <ul style="list-style-type: none"> ▪ first—Specify the first domain to return; the default is the first result. ▪ limit—Specify the maximum number of results to return.
sort	Optional	<p>Determines the way in which to sort and display results. Allowed values are:</p> <ul style="list-style-type: none"> ▪ by—Specify the attribute to use to sort results. Allowed values are: <ul style="list-style-type: none"> ▪ delete_time—The time the domain was deleted. Can be used only if criteria = deleted. ▪ domain—The domain name (this is the default). ▪ id—The identification number of the domain. ▪ type—The domain type: domain or alias. ▪ users—The number of users in the domain. You can refine this to specify the number of users of a certain mailbox type by using one of the following: users/alias, users/deleted, users/filter, users/forward, or users/mailbox. ▪ direction—Specify the sort order. Allowed values are ascending (this is the default) or descending.

Response fields for search_domains

The following fields may be returned when the **search_users** method is submitted:

Field name	Obligation	Description/Value
count	Returned if success = true	The number of users returned.
domains	Returned if success = true	A list of the domains that meet the criteria, and, optionally, their attributes. Allowed values are: <ul style="list-style-type: none"> ▪ alias_target—The domain for which this name is an alias. Returned only if the domain is an alias. ▪ counts—The number of each of the different mailbox types in the domain. ▪ domain—A list of the domains that meet the search criteria. ▪ id—The identification number of the account. Returned only if deleted = true in the request. ▪ type—The type of domain. May be one of the following: <ul style="list-style-type: none"> ▪ alias—An alias name for another domain. ▪ domain—Regular domain.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
total_count	Returned if success = true	The total number of domains that match the search criteria. This value may be more than the number of results returned if a range was specified in the request.

Examples for search_domains

Example 1

Retrieves all domains in the requestor's company.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  }
}
```

Response

```
{
  "success": true,
  "domains": [
    {
      "domain": "example.adm",
      "type": "domain",
      "counts": {
        "filter": 0,
        "forward": 0,
        "deleted": 0,
        "mailbox": 1,
        "total": 1,
        "alias": 0
      }
    },
    {
      "domain": "example.com",
      "type": "domain",
      "counts": {
        "filter": 0,
        "forward": 2,
```

OpenSRS Mail API

```
    "deleted": 1,  
    "mailbox": 7,  
    "total": 10,  
    "alias": 1  
  }  
},  
{  
  "domain": "example2-restored.com",  
  "type": "domain",  
  "counts": {  
    "filter": 0,  
    "forward": 0,  
    "deleted": 0,  
    "mailbox": 0,  
    "total": 0,  
    "alias": 0  
  }  
},  
{  
  "domain": "othermail.com",  
  "type": "domain",  
  "counts": {  
    "filter": 0,  
    "forward": 0,  
    "deleted": 0,  
    "mailbox": 1,  
    "total": 1,  
    "alias": 0  
  }  
},  
{  
  "domain": "schmexample.com",  
  "alias_target": "example.com",  
  "type": "alias"  
  "counts": {
```

```

        "filter": 0,
        "forward": 0,
        "deleted": 0,
        "mailbox": 0,
        "total": 0,
        "alias": 0
    }
}
],
"count": 5,
"total_count": 5
}

```

Example 2

Retrieves all domains in the requestor's company that start with 'd', sorted by number of users in the domain.

Request

```

{
  "credentials": {
    "user": "company_admin@democo.adm",
    "password": "sw0rdf1sh"
  },
  "criteria": {
    "match": "d*"
  },
  "sort": {
    "by": "users"
  }
}

```

Response

```

{
  "success": true,
  "domains": [
    {
      "domain": "example2-restored.com",

```

OpenSRS Mail API

```
"type": "domain",
"counts": {
  "filter": 0,
  "forward": 0,
  "deleted": 0,
  "mailbox": 0,
  "total": 0,
  "alias": 0
}
},
{
  "domain": "example.adm",
  "type": "domain",
  "counts": {
    "filter": 0,
    "forward": 0,
    "deleted": 0,
    "mailbox": 1,
    "total": 1,
    "alias": 0
  }
},
{
  "domain": "example.com",
  "type": "domain",
  "counts": {
    "filter": 0,
    "forward": 2,
    "deleted": 1,
    "mailbox": 7,
    "total": 10,
    "alias": 1
  }
}
],
```

```

    "count": 3,
    "total_count": 3
  }
}

```

Example 3

Retrieves all regular .com domains in the requestor's company

Request

```

{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "criteria": {
    "match": "*.com",
    "type": [
      "domain"
    ]
  }
}

```

Response

```

{
  "success": true,
  "domains": [
    {
      "domain": "example.adm",
      "type": "domain",
      "counts": {
        "filter": 0,
        "forward": 0,
        "deleted": 0,
        "mailbox": 1,
        "total": 1,
        "alias": 0
      }
    }
  ]
}

```

OpenSRS Mail API

```
}  
{  
  "domain": "example.com",  
  "type": "domain",  
  "counts": {  
    "filter": 0,  
    "forward": 2,  
    "deleted": 1,  
    "mailbox": 7,  
    "total": 10,  
    "alias": 1  
  }  
}  
{  
  "domain": "example2-restored.com",  
  "type": "domain",  
  "counts": {  
    "filter": 0,  
    "forward": 0,  
    "deleted": 0,  
    "mailbox": 0,  
    "total": 0,  
    "alias": 0  
  }  
}  
{  
  "domain": "othermail.com",  
  "type": "domain",  
  "counts": {  
    "filter": 0,  
    "forward": 0,  
    "deleted": 0,  
    "mailbox": 1,  
    "total": 1,  
    "alias": 0  
  }  
}
```

```
    }  
  }  
],  
"count": 4,  
"total_count": 4  
}
```

Workgroup methods

This section contains the following methods:

- `create_workgroup`—Creates a new workgroup in a specified domain.
- `delete_workgroup`—Deletes a specified workgroup.
- `search_workgroups`—Retrieves a list of workgroups in a domain.

create_workgroup

Description

The **create_workgroup** method creates a new workgroup in a specified domain.

Syntax

```
{
  <credentials object>,
  "domain": <domain name>,
  "workgroup": <workgroup name>
}
```

Request fields for create_workgroup

The following fields can be used in the **create_workgroup** method:

Field name	Obligation	Definition/Value
domain	Required	The domain under which you want to create the workgroup.
workgroup	Required	The name of the new workgroup.

Response fields for create_workgroup

The following fields may be returned in response to the **create_workgroup** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for create_workgroup

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "domain": "example.com",
  "workgroup": "finance"
}
```

Response

```
{
  "success": true
}
```

delete_workgroup

Description

The `delete_workgroup` method deletes a specified workgroup.

Note: The workgroup must be empty, that is, it must not have any users assigned to it.

Syntax

```
{
  <credentials object>,
  "domain": <domain name>,
  "workgroup": <workgroup name>
}
```

Request fields for delete_workgroup

The following fields can be used in the `delete_workgroup` method:

Field name	Obligation	Definition/Value
domain	Required	The name of the domain to which the workgroup belongs.
workgroup	Required	The name of the workgroup that you want to delete.

Response fields for delete_workgroup

The following fields may be returned in response to the `delete_workgroup` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for delete_workgroup

Request

```
{  
  "credentials": {  
    "user": "domain_admin@example.com",  
    "password": "pencil75"  
  },  
  "domain": "example.com",  
  "workgroup": "finance"  
}
```

Response

```
{  
  "success": true  
}
```

search_workgroups

Description

The **search_workgroups** method retrieves a list of workgroups in a domain.

Syntax

```
{
  <credentials object>,
  "criteria": {
    "domain": <domain name>,
    "match": <wildcard pattern>
  }
  "range":{
    "first": <number>,
    "limit": <number>
    "sort": {
      "by": workgroup | users
      "direction": ascending | descending
    }
  }
}
```

Request fields for search_workgroups

The following fields can be used in the **search_workgroups** method:

Field name	Obligation	Definition/Value
criteria	Required	Narrows the results by restricting the search. Allowed values are: <ul style="list-style-type: none"> ▪ domain—Specifies the domain to search. This is required. ▪ match—Returns only those workgroups that match the specified pattern. You can use the following wildcards: <ul style="list-style-type: none"> ▪ ?—Match a single character ▪ *—Match multiple characters.
range	Optional	Limits the results to a subset of those selected by the criteria values. Allowed values are: <ul style="list-style-type: none"> ▪ first—Specify the first workgroup to return;

Field name	Obligation	Definition/Value
		<p>the default is the first result.</p> <ul style="list-style-type: none"> ▪ limit—Specify the maximum number of results to return.
sort	Optional	<p>Determines the way in which to sort and display results. Allowed values are:</p> <ul style="list-style-type: none"> ▪ by—Specify the attribute to use to sort results. Allowed values are: <ul style="list-style-type: none"> ▪ user—The number of users in the workgroup. ▪ workgroup—The workgroup name (this is the default). ▪ direction—Specify the sort order. Allowed values are ascending (this is the default) or descending.

Response fields for search_workgroups

The following fields may be returned in response to the **search_workgroups** method:

Field name	Obligation	Description/Value
count	Returned if success = true	The number of workgroups returned.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
total_count	Returned if success = true	The total number of workgroups that match the search criteria. This value may be more than the number of results returned if a range was specified in the request.
workgroups	Returned if success = true	<p>A list of the workgroups that meet the criteria and their attributes. Includes the following:</p> <ul style="list-style-type: none"> ▪ counts—The number of each type of mailbox in the workgroup. <ul style="list-style-type: none"> ▪ filter—The number of filter only mailboxes (delivery_filter attribute set to true). ▪ forward—The number of forward

Field name	Obligation	Description/Value
		<p>only mailboxes (delivery_forward attribute set to true and delivery_local set to false).</p> <ul style="list-style-type: none"> ▪ mailbox—The number of mailboxes (delivery_local attribute set to true). ▪ total—The total number of users in the workgroup. ▪ workgroup—The workgroup name.

Examples for search_workgroups

Example 1

Retrieves all workgroups in the domain example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com"
  }
}
```

Response

```
{
  "success": true,
  "count": 7,
  "total_count": 7,
  "workgroups": [
    {
      "workgroup": "contract",
      "counts": {
        "filter": 0,
```

OpenSRS Mail API

```
    "forward": 0,
    "mailbox": 0,
    "total": 0
  }
},
{
  "workgroup": "interns",
  "counts": {
    "filter": 0,
    "forward": 1,
    "mailbox": 2,
    "total": 3
  },
{
  "workgroup": "sales",
  "counts": {
    "filter": 0,
    "forward": 0,
    "mailbox": 1,
    "total": 1
  }
},
{
  "workgroup": "sales_europe",
  "counts": {
    "filter": 0,
    "forward": 0,
    "mailbox": 0,
    "total": 0
  }
},
{
  "workgroup": "staff",
  "counts": {
    "filter": 0,
```

```

        "forward": 1,
        "mailbox": 4,
        "total": 5
    }
},
{
    "workgroup": "stock_holders",
    "counts": {
        "filter": 0,
        "forward": 0,
        "mailbox": 0,
        "total": 0
    }
},
{
    "workgroup": "sysadmins",
    "counts": {
        "filter": 0,
        "forward": 0,
        "mailbox": 0,
        "total": 0
    }
}
],
}

```

Example 2

Retrieves all workgroups that start with 's'.

Request

```

{
    "credentials": {
        "user": "domain_admin@example.com",
        "password": "pencil75"
    },
    "criteria": {

```

OpenSRS Mail API

```
    "domain": "example.com",
    "match": "s*"
  }
}
```

Response

```
{
  "success": true,
  "count": 5,
  "total_count": 5,
  "workgroups": [
    {
      "workgroup": "sales",
      "counts": {
        "filter": 0,
        "forward": 0,
        "mailbox": 1,
        "total": 1
      }
    },
    {
      "workgroup": "sales_europe",
      "counts": {
        "filter": 0,
        "forward": 0,
        "mailbox": 0,
        "total": 0
      }
    },
    {
      "workgroup": "staff",
      "counts": {
        "filter": 0,
        "forward": 1,
        "mailbox": 4,
        "total": 5
      }
    }
  ]
}
```

```

    }
  },
  {
    "workgroup": "stock_holders",
    "counts": {
      "filter": 0,
      "forward": 0,
      "mailbox": 0,
      "total": 0
    }
  },
  {
    "workgroup": "sysadmins",
    "counts": {
      "filter": 0,
      "forward": 0,
      "mailbox": 0,
      "total": 0
    }
  }
],
}

```

Example 3

Retrieves the first three workgroups that start with 's' in the domain example.com.

Request

```

{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com",
    "match": "s*"
  }
}

```

OpenSRS Mail API

```
    },  
    "range": {  
      "first": 0,  
      "limit": 3  
    }  
  }  
}
```

Response

```
{  
  "success": true,  
  "count": 3,  
  "total_count": 5,  
  "workgroups": [  
    {  
      "workgroup": "sales",  
      "counts": {  
        "filter": 0,  
        "forward": 0,  
        "mailbox": 1,  
        "total": 1  
      }  
    },  
    {  
      "workgroup": "sales_europe",  
      "counts": {  
        "filter": 0,  
        "forward": 0,  
        "mailbox": 0,  
        "total": 0  
      }  
    },  
    {  
      "workgroup": "staff",  
      "counts": {  
        "filter": 0,  
        "forward": 1,  
        "mailbox": 0,  
        "total": 1  
      }  
    }  
  ]  
}
```

```

        "mailbox": 4,
        "total": 5
    }
}
],
}

```

Example 4

Retrieves the next three workgroups that start with 's' in the domain example.com.

Request

```

{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com",
    "match": "s*"
  },
  "range": {
    "first": 3,
    "limit": 3
  }
}

```

Response

```

{
  "success": true,
  "count": 2,
  "total_count": 5,
  "workgroups": [
    {
      "workgroup": "stock_holders",
      "counts": {
        "filter": 0,

```

OpenSRS Mail API

```
        "forward": 0,
        "mailbox": 0,
        "total": 0
    }
},
{
    "workgroup": "sysadmins",
    "counts": {
        "filter": 0,
        "forward": 0,
        "mailbox": 0,
        "total": 0
    }
}
],
}
```

Example 5

Retrieves the first three workgroups that start with 's' in the domain example.com, sorting by number of users in the workgroup, in descending order.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com",
    "match": "s*"
  },
  "range": {
    "first": 0,
    "limit": 3
  },
}
```

```
"sort": {
  "by": "users",
  "direction": "descending"
}
}
```

Response

```
{
  "success": true,
  "workgroups": [
    {
      "workgroup": "staff",
      "counts": {
        "filter": 0,
        "forward": 1,
        "deleted": 2,
        "mailbox": 4,
        "total": 5
      }
    },
    {
      "workgroup": "sales",
      "counts": {
        "filter": 0,
        "forward": 0,
        "deleted": 0,
        "mailbox": 1,
        "total": 1
      }
    },
    {
      "workgroup": "sales_europe",
      "counts": {
        "filter": 0,
        "forward": 0,
        "deleted": 0,

```

OpenSRS Mail API

```
        "mailbox": 0,  
        "total": 0  
    }  
    ],  
    "count": 3,  
    "total_count": 5  
}
```

User methods

This section contains the following methods:

- `change_user`—Creates a new user or changes the attributes of an existing user.
- `delete_user`—Soft deletes a user's account.
- `generate token`—Generates a temporary login token for a user.
- `get_deleted_contacts`—Retrieves a list of deleted restorable contacts from a user's Webmail address book.
- `get_deleted_messages`—Retrieves a list of recoverable deleted email messages belonging to a user.
- `get user`—Retrieves the settings and values for a specified user.
- `get_user_attribute_history`—Retrieves the historical values for an attribute for a specified user.
- `get_user_changes`—Retrieves a summary of the changes made to a user account.
- `get_user_folders`—Retrieves a list of a user's current and deleted folders.
- `get_user_messages`—Returns a list of user messages in a specified folder.
- `logout_user`—Terminates all IMAP and POP sessions that the specified user has active.
- `move_user_messages`—Moves the specified user messages to a different folder.
- `reindex`—Regenerates the specified mailbox index file.
- `rename_user`—Changes a user's mailbox name.
- `restore_deleted_contacts`—Restores deleted contacts for a specified user.
- `restore_deleted_messages`—Restores specific deleted messages.
- `restore_user`—Restores specified user accounts.
- `search_users`—Searches for users in a specified domain.
- `set_role`—Assigns a role to the specified user.
- `user_notify`—Checks to see if the specified user has any unseen mail.

change_user

Description

The **change_user** method creates a new user or changes the attributes of an existing user.

Syntax

```
{
  <credentials object>
  "user": <name of user to create or change>
  "attributes":
  {
    <key-value pairs>
  }
  create_only: TRUE | FALSE
}
```

Request fields for change_user

The following fields can be used in the **change_user** method:

Field name	Obligation	Definition/Value
attributes	Required	The list of fields that you want to define or modify and their new values. For more information, see the Attributes table below.
create_only	Optional	Used to prevent changes to existing accounts. If set to true and the specified user exists, the account will not be modified and an error will be returned.
user	Required	The user that you want to create or modify.

Attributes fields

You can specify the following fields within the **attributes** array.

Field name	Obligation	Definition/Value
------------	------------	------------------

Field name	Obligation	Definition/Value
aliases	Optional	The list of alternate names for the account, for example, joe@example.com, joey@example.com, juser@example.com. Mail sent to an alias address is delivered to the account. The alias address can be used to log in to the account via IMAP4, POP3, Webmail and SMTP The maximum number of aliases is 2,000.
allow	Optional	A list of email addresses on the user's allow list; may include wildcards. For example joe_goodguy@bigmail.com and *@example.com. Maximum is 1000 addresses.
autoresponder	Optional	The text of the message that is automatically sent back to senders if delivery_autoresponder is set to true . Maximum size is 4,000 characters.
autoresponder_option_enddate	Optional	The date that the autoresponder expires, expressed in UNIX Epoch time. If not specified, the autoresponder never expires.
autoresponder_option_interval	Optional	The number of hours that must pass before the autoresponder message is sent again to the same address. Must be less than 1,095 (45 days). If not set, an interval of 24 hours is used.
block	Optional	A list of email addresses on the user's block list; may include wildcards. For example, bob_thejerk@othermail.com and *@spammers-inc.com. Messages from these addresses will always be considered to be spam. Maximum is 1000 addresses.
brand	Optional	The Webmail brand for this mailbox. If not specified, the account uses the domain setting.
delivery_autoresponder	Optional	If set to true , the configured auto response message is sent to the sender.

Field name	Obligation	Definition/Value
delivery_filter	Optional	If set to true , messages are scanned and then passed to the domain's filtermx host; the messages are not stored locally. Note: If delivery_filter = true , all other delivery attributes must be false .
delivery_forward	Optional	If set to true , the message is forwarded to the mailbox's forward_recipients list.
delivery_local	Optional	If set to true , the message is passed through the mailbox's sieve filters and stored locally.
<p>Valid combinations of delivery attributes are</p> <ul style="list-style-type: none"> ▪ delivery_local—Mail is stored locally. ▪ delivery_local, delivery_forward—Mail is stored locally and forwarded. ▪ delivery_forward—Mail is forwarded. ▪ delivery_local, delivery_autoresponder—Mail is stored locally, automatic reply sent. ▪ delivery_local, delivery_forward, delivery_autoresponder—Mail is stored locally and forwarded, automatic reply sent. ▪ delivery_forward, delivery_autoresponder—Mail is forwarded, automatic reply sent. ▪ delivery_filter—Mail is forwarded to domain-defined mail host. <p>Note: No matter which delivery options are set, all messages are scanned for viruses and malware, and, depending on the mailbox's allow list, all messages are scanned for spam.</p>		
fax	Optional	The fax number for the account owner; can be a maximum of 30 characters.
filterdelivery	Optional	Determines what happens to spam messages: <ul style="list-style-type: none"> ▪ quarantine—Spam messages are stored locally in the user's spam folder. ▪ passthrough—Spam messages are delivered with the specified spamtage and spamheader. <p>If not defined, the account uses the domain's filterdelivery setting.</p>

Field name	Obligation	Definition/Value
forward_option_restricted	Optional	If set to true and delivery_forward is also set to true , only messages from addresses on the forward recipients list are forwarded.
forward_option_subject_prefix	Optional	If delivery_forward is set to true , this string is added to the beginning of the Subject line of forwarded messages. String can be up to 128 characters.
forward_option_reply_to	Optional	If delivery_forward is set to true , this email address is added to the Reply-To header of forwarded messages.
forward_recipients	Optional	If delivery_forward is set to true , incoming messages will be forwarded to this list of addresses. Maximum number of addresses is 1,000.
language	Optional	The default language in which the mailbox will be displayed. May be overridden by the user. A list of valid language names is displayed in the metadata -> options field in the get_user response.
macsettings	Optional	A string that contains the user's MAC UI preferences. Only used by the MAC; not recommended for use by other applications. Maximum 2048 characters.
max_pab_entries	Optional	The maximum number of entries (contacts and groups) that the user can have in their address book.
name	Optional	The name that is used in the From field of email messages. The format is UTF-8 text and can be up to 512 characters.
notes_external	Optional	Any notes you want to add to the user. Maximum is 4096 characters.

Field name	Obligation	Definition/Value
password	Optional	The password used to log in to all services. Can be up to 54 characters including the letters a to z, numbers 0 to 9, and the following special characters: ~ ! @ \$ % ^ & * () - _ = + / \] [{ } : ; > < , . ` ? May be plain text or encrypted. Plaintext: sw0rdf1sh Encrypted: {MD5}\$1\$a1iefyKe\$XOYTdl0XE3LcZnveLmrz40.
phone	Optional	The user's phone number; maximum 30 characters.
quota	Optional	The maximum amount of storage (in bytes) that the mailbox may use, including mail and file storage.
reject_spam	Optional	Determines whether spam messages are rejected at the SMTP level. Allowed values are true and false .
service_imap4	Optional	The setting for the IMAP4 service (enabled , disabled , or suspended). If enabled , the user can log in via IMAP4.
service_pop3	Optional	The setting for the POP3 service (enabled , disabled , or suspended). If enabled , the user can log in via POP3.
service_smtpin	Optional	The setting for the SMTPIN service (enabled, disabled, or suspended). If enabled, the user can send email.
service_smtprelay	Optional	The setting for the SMTPRELAY service (enabled , disabled , or suspended).
service_smtprelay_webmail	Optional	The setting for the SMTPRELAY Webmail service (enabled, disabled, or suspended). If enabled, the user can send email via Webmail.

Field name	Obligation	Definition/Value
service_webmail	Optional	The setting for the Webmail service (enabled , disabled , or suspended). If enabled , the user can log in via Webmail.
<p>Note: When creating a new user, if a service is not specified in the request, the value of the service attribute is taken from the domain setting. If the domain does not have a value for that service, it is enabled. If a service is suspended in the domain, it can only be set in the request by an admin of the same or higher level than the admin that set the service to suspended in the domain (for example, a domain admin cannot change a service that was suspended by a company admin).</p>		
sieve	Optional	The user's sieve filters.
smtp_sent_limit	Optional	The number of messages that the user is allowed to send in a 24 hour period. Maximum number is 10,000. If not defined, the domain's smtp_sent_limit is used. Note: If the same message is sent to two recipients, it counts as two messages against this limit.
spamfolder	Optional	The folder into which messages identified as spam will be delivered. Maximum 128 characters. Nested folders are separated by the '/' character, for example, "Archive/Junk/Spam" If not defined, the mailbox uses the domain's spamfolder setting.
spamheader	Optional	The tag that is added to messages that are identified as spam. Maximum 512 characters.
spamlevel	Optional	The level of aggressiveness set for the spam filter. Valid values are Normal, High, and Very High. If not set, the mailbox uses the domain's spamlevel setting.

Field name	Obligation	Definition/Value
spamtag	Optional	The value of this field is prepended to the subject of any message that is identified as spam. Maximum 30 characters. If not defined, the mailbox uses the domain's spamtag setting. Note: This value is not supported for filteronly accounts.
timezone	Optional	The timezone that the mailbox will use. A list of valid timezones is displayed in the metadata ->options field in the <u>get_user</u> response.
title	Optional	The user's job title;maximum 60 characters.
type	Optional	Determines the type of account that is associated with this user. Allowed values are mailbox, forward, or filter. The default type when creating a user is mailbox. The type value in turn restricts the delivery method that can be specified. Mailbox accounts can have local and/or forward delivery, forward accounts can have only forward delivery, and filter accounts can have only filter delivery. Any incompatible delivery attributes that are submitted will be ignored.
workgroup	Optional	The workgroup to which the user belongs.

Response fields for change_user

The following fields may be returned in response to the **change_user** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
hints	May be returned when success = false	A list of the attributes that had errors and the reason for each error.

success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
---------	-----------------	--

Examples for change_user

Example 1

Successfully creates a new user.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdflsh"
  },
  "user": "bhayden@example.com",
  "attributes": {
    "name": "Bob Hayden",
    "password": "changeit",
    "delivery_forward": true,
    "forward_recipients": [
      "bob.hayden@example.com"
    ]
  }
}
```

Response

```
{
  "success": true
}
```

Example 2

Changes the user's spamtage attribute.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdflsh"
  }
```

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```
},  
"user": "bhayden@example.com",  
"attributes": {  
  "spamtag": "[JUNK]"  
}  
}
```

Response

```
{  
  "success": true  
}
```

Example 3

Attempts to modify an existing user, but fails due to badly formatted attributes.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "user": "robson@example.com",
  "attributes": {
    "spamtag": "(SPAM)",
    "name": [
      "Robson",
      "Wilk"
    ],
    "allow": "Mom@Userfamily.xom",
    "block": [
      "spammers@badguys.org",
      "*@naughty.edu"
    ]
  }
}
```

Response

```
{
  "success": false
  "hints": {
    "name": "Not a valid Text[1-512] (not a string)",
    "allow": "Not a list"
  },
  "error_number": 6,
  "error": "One or more attributes badly formatted"
}
```

Example 4

Attempts to create a user that already exists (with **create_only** flag).

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "user": "bhayden@example.com",
  "create_only": true,
  "attributes": {
    "type": "mailbox",
    "password": "gob",
    "reject_spam": false,
    "name": "Bob Hayden",
    "workgroup": "staff"
  }
}
```

Response

```
{
  "success": false,
  "error_number": 23,
  "error": "Object already exists",
  "audit": "jewel30_50c235f127"
}
```

Example 5

Changes a user to a filter.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  }
}
```

```

    },
    "user": "bhayden@example.com",
    "attributes": {
      "type": "filter"
    }
  }
}

```

Response

```

{
  "success": true
}

```

Example 6

Changes a user to a forward.

Request

```

{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "user": "bhayden@example.com",
  "attributes": {
    "type": "forward"
  }
}

```

Response

```

{
  "success": true
}

```

Example 7

Changes a user to a mailbox.

Request

```

{
  "credentials": {
    "user": "domain_admin@example.com",

```

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```
    "password": "sw0rdflsh"
  },
  "user": "bhayden@example.com",
  "attributes": {
    "type": "mailbox",
    "delivery_local": true,
    "delivery_forward": false
  }
}
```

Response

```
{
  "success": true
}
```

Example 8

Adds a note to a user

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdflsh"
  },
  "user": "bhayden@example.com",
  "attributes": {
    "notes_external": "Premier customer.\nSpend extra time in support if they call.",
  }
}
```

Response

```
{
  "success": true
}
```

delete_user

Description

The **delete_user** method soft deletes a user's account. Once a user is deleted they will not be able to receive mail or access the system in any way.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>
}
```

Request fields for delete_user

The following fields can be used in the **delete_user** method:

Field name	Obligation	Definition/Value
user	Required	The user's mailbox name.

Response fields for delete_user

The following fields may be returned in response to the **delete_user** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for delete_user

Request

```
{
  credentials object,
  "user": "robson@example.com"
  "password": "abc123"
},
```

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```
    "user": "jack_user@example.com"  
  }
```

Response

```
{  
  "success": true  
}
```

generate_token

Description

The **generate_token** method generates a temporary login token for a user. Tokens can be used in place of a password.

Note: The [authenticate](#) method can also be used to generate tokens.

Syntax

```
{
  <credentials object>
  "user": <mailbox_name>,
  "reason": <text>,
  "token": <token>,
  "oma": <boolean>,
  "duration": <number of hours>,
  "type": oma | session | sso
}
```

Request fields for generate_token

The following fields can be used in the **generate_token** method:

Field name	Obligation	Definition/Value
duration	Optional	The number of hours for which the token is valid. If this value is not specified, the token is valid for 24 hours.
oma	Optional	If set to true , a session or sso type token may also be used with the OMA. If type = oma , this parameter is ignored. Note: Only company admins can generate tokens with this argument set to true .
reason	Required	The reason that the token was generated.
token	Optional	The token to add. If this value is not submitted, a random token is generated.
type	Optional	The type of token to generate. Allowed values are: <ul style="list-style-type: none"> ▪ oma—A token that is good for OMA logins only. Note: This is the same type of token returned by the authenticate method, but this method can generate a token for an

Field name	Obligation	Definition/Value
		<p>arbitrary user.</p> <ul style="list-style-type: none"> ▪ session—Valid until the duration of the token expires. Can be used for mail services and as credentials for the OMA (if oma is true in the request). ▪ sso—A single use token that becomes invalid after it is used once. Can be used to log in to mail services (Webmail, IMAP, SMPT, etc) and the oma (if oma is true in the request). <p>If type is not specified, session is used.</p>
user	Required	The user's mailbox name.

Response fields for generate_token

The following fields may be returned in response to the **generate_token** method:

Field name	Obligation	Description/Value
duration	Returned if success = true	The number of hours for which the token is valid.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
token	Returned if success = true	The token that was generated.

Examples for generate token

Example 1

Adds an sso token with default duration.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
```

```

    "password": "pencil75"
  },
  "user": "joe_user@example.com",
  "type": "sso",
  "reason": "Login via portal"
}

```

Response

```

{
  "success": true,
  "duration": 24,
  "token": "d39b3ab55786e3a6161f860c3360107c",
}

```

Example 2

Adds a specific session token with a 3 hour duration.

Request

```

{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "jane_user@example.com",
  "reason": "User forgot password and needs temporary token to log in",
  "token": "JaneTophatDishwasher",
  "duration": 3
}

```

Response

```

{
  "success": true,
  "duration": 3,
  "token": "JaneTophatDishwasher",
}

```

get_deleted_contacts

Description

The `get_deleted_contacts` method retrieves a list of deleted restorable contacts from a user's Webmail address book.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>
}
```

Request fields for get_deleted_contacts

The following fields can be used in the `get_deleted_contacts` method:

Field name	Obligation	Definition/Value
user	Required	The user's mailbox name.

Response fields for get_deleted_contacts

The following fields may be returned in response to the `get_deleted_contacts` method:

Field name	Obligation	Description/Value
contacts	Returned if success = true	A list of the contacts that can be recovered. For each contact listed, the following information is returned: company, email, firstname, home_addr, home_phone, id, lastname, mobile_phone, nickname, notes, title, work_address, work_phone
count	Returned if success = true	The number of contacts returned.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for get_deleted_contacts

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "joe_user@example.com"
}
```

Response

```
{
  "success": true,
  "count": 3,
  "contacts": [
    {
      "home_phone": "(555) 555-5555",
      "firstname": "Bob",
      "nickname": "Bobby",
      "work_address": "",
      "lastname": "Bobson",
      "email": "bbobson@bigmail.com",
      "notes": null,
      "id": "1321909823__1321909700169",
      "title": "Dr.",
      "mobile_phone": "",
      "company": "Bob Co.",
      "work_phone": "(923) 456-7890 ",
      "home_addr": ""
    },
    {
      "home_phone": "",
      "firstname": "Betty",
      "nickname": "Bets",
      "work_address": "",

```

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```
"lastname": "Bobson",
"email": "betty@smallmail.com",
"notes": null,
"id": "1321909823__1321909823568",
"title": "Ms.",
"mobile_phone": "",
"company": "",
"work_phone": "",
"home_addr": "123 Oak St.\nSpringfield IL\n56453\n"
},
{
  "home_phone": "",
  "firstname": "William",
  "nickname": "Billy",
  "work_address": "",
  "lastname": "Bobson",
  "email": "will.bobson@bobco.co.uk",
  "notes": null,
  "id": "1321909823__1321909754264",
  "title": "Mr.",
  "mobile_phone": "(753) 867-5309",
  "company": "",
  "work_phone": "",
  "home_addr": ""
}
]
}
```

get_deleted_messages

Description

The **get_deleted_messages** method retrieves a list of recoverable deleted email messages belonging to a user.

After they are deleted, email messages are retained for a period of time and may be recovered. This method returns a list of recoverable messages, including the message headers, so that a user can select which messages they want recovered.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "folder": <folder name>,
  "headers": [<list of headers>]
}
```

Request fields for get_deleted_messages

The following fields can be used in the **get_deleted_messages** method:

Field name	Obligation	Definition/Value
folder	Optional	Name of the folder to search. You can specify deleted as well as current folders. If not specified, messages in all folders will be returned.
headers	Optional	Specify the headers that you want returned. For a list of the available headers, see Response fields for get_deleted_messages . If not specified, all headers are returned.
user	Required	The user whose deleted messages you want to list.

Response fields for get_deleted_messages

The following fields may be returned in response to the **get_deleted_messages** method:

Field name	Obligation	Description/Value
count	Returned if success = true	The number of messages that can be restored.

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
messages	Returned if success = true	<p>A list of the messages that can be recovered. For each message listed, the following information is returned:</p> <ul style="list-style-type: none"> ▪ folder—The IMAP name of the folder to which the message belongs. ▪ folder_deleted—Indicates that the folder that the message was in is a deleted folder. This is only returned if the folder was deleted. ▪ folder-unicode—The displayed name of the folder to which the message belongs. ▪ headers—The contents of the message header; may include the following: content-type, content-transfer-encoding, date, delivered-to, from, id, INTERNALDATE, message-id, mime_version, received, return-path, subject, to, x-fda, x-filterd-recvd-size, x-mailer, x-originating-ip, x-panda, x-session-marker, and x-spam-summary. <p>Note The id value is used by the restore_deleted_messages method to restore the message.</p>
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for get_deleted_messages

Example 1

Retrieves deleted recoverable messages for joe_user@example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  }
}
```

```

    },
    "user": "joe_user@example.com",
  }
}

```

Response

```

{
  "success": true,
  "count": 6
  "messages": [
    {
      "headers": {
        "return-path": [
          "june_user@example.com"
        ],
        "date": [
          "Mon, 21 Nov 2011 21:14:50 +0000 (GMT)"
        ],
        "x-mailer": [
          "Webmail"
        ],
        "INTERNALDATE": [
          "1321910752"
        ],
        "content-type": [
          "text/html; charset=UTF-8"
        ],
        "to": [
          "joe_user@example.com"
        ],
        "x-originating-ip": [
          "[10.0.63.198]"
        ],
        "from": [
          "June User <june_user@example.com>"
        ],
        "mime-version": [

```

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```
"1.0"
],
"received": [
    "from smtprelay.dev.hostedemail.com (mail.dev.hostedemail.com
[216.40.41.197]) by imf16.hostedemail.com (Postfix) with ESMTTP for
<joe_user@example.com>; Mon, 21 Nov 2011 21:14:51 +0000 (UTC)",
    "from filter.hostedemail.com (ff-bigip5 [10.5.49.254]) by
smtprelay01.dev.hostedemail.com (Postfix) with SMTP id 54A4919063B for
<joe_user@example.com>; Mon, 21 Nov 2011 21:14:51 +0000 (UTC)",
    "from webmail01 (imap-ext [216.40.41.197])",
    "from 10.0.63.198 ([10.0.63.198]) by webmail01 (Webmail) with
HTTP; Mon, 21 Nov 2011 21:14:50 +0000 (GMT)"
],
"x-spam-summary": [
    "39,2.407,0,b00953cdef69ad05,d41d8cd98f00b204,june_user@examp
le.com,joe_user@example.com,RULES_HIT:152:355:375:379:413:541:582:588:5
89:988:989:1152:1224:1260:1261:1311:1313:1314:1345:1437:1515:1516:1517:
1529:1534:1536:1569:1593:1594:1676:1699:1711:1714:1730:1747:1766:1792:2
393:2557:2559:2562:3138:3769:3865:3870:5007:6261:10004:10400:11658:1191
4,0,RBL:216.40.41.197:@wexample.com:.lbl8.mailshell.net-64.201.201.201
62.10.55.100,CacheIP:none,Bayesian:0.5,0.5,0.5,Netcheck:none,DomainCach
e:0,MSF:not bulk,SPF:ft,MSBL:none,DNSBL:none,Custom_rules:0:0:0"
],
"delivered-to": [
    "joe_user@example.com"
],
"x-fda": [
    "65578185624.06"
],
"subject": [
    "IMPORTANT!! Please read!!!"
],
"\t(authenticated sender": [
    "june_user@example.com) by omf01.dev.hostedemail.com
(Postfix) with ESMTTP for <joe_user@example.com>; Mon, 21 Nov 2011
21:14:51 +0000 (UTC)"
],
"x-filterd-recvd-size": [
    "1260",
    "748"
],
```

```

"x-session-marker": [
  "6A756E655F757365724064656D6F636F2E636F6D"
],
"x-panda": [
  "scanned!",
  "scanned!"
],
"content-transfer-encoding": [
  "7bit"
],
"message-id": [
  "<507672317.5.1321910091140.JavaMail.mail@webmail01>"
]
},
"folder-unicode": "INBOX",
"id":
"U2FsdGVkX18rWbWomiloZWQML6UX9qBBsIn38D3Pzuimm3JW5Q4XC1xTdfHj5XEK0Zz2Dc
8VYUMrESVnn0LfaesVN/y34oTjmX0whWuqoSka5xhAE3ieCEDeDeKRR7m2ghBIBMGV9SNlr
7ORiknc0l+cXabSVJyFnnsLysVuaxVX5WKctcDZZAd3YxRhp921",
"folder": "INBOX"
},
{
"headers": {
"return-path": [
  "mrmanager@example.com"
],
"date": [
  "Mon, 21 Nov 2011 21:16:36 +0000 (GMT)"
],
"x-mailer": [
  "Webmail"
],
"INTERNALDATE": [
  1321910752
],
"content-type": [

```

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```
    "text/html; charset=UTF-8"
  ],
  "to": [
    "joe_user@example.com"
  ],
  "x-originating-ip": [
    "[10.0.63.198]"
  ],
  "from": [
    "Manager <mrmanager@example.com>"
  ],
  "mime-version": [
    "1.0"
  ],
  "received": [
    "from smtprelay.dev.hostedemail.com (mail.dev.hostedemail.com [216.40.41.197]) by imf27.hostedemail.com (Postfix) with ESMTTP for <joe_user@example.com>; Mon, 21 Nov 2011 21:16:37 +0000 (UTC)",
    "from filter.hostedemail.com (ff-bigip5 [10.5.49.254]) by smtprelay01.dev.hostedemail.com (Postfix) with SMTP id A209819063B for <joe_user@example.com>; Mon, 21 Nov 2011 21:16:37 +0000 (UTC)",
    "from webmail01 (imap-ext [216.40.41.197])",
    "from 10.0.63.198 ([10.0.63.198]) by webmail01 (Webmail) with HTTP; Mon, 21 Nov 2011 21:16:36 +0000 (GMT)"
  ],
  "x-spam-summary": [
    "1,0,0,565f950133a813c6,d41d8cd98f00b204,mrmanager@example.com,joe_user@example.com,RULES_HIT:152:355:375:379:541:582:988:989:1152:1224:1260:1261:1311:1313:1314:1345:1373:1515:1516:1517:1525:1534:1536:1569:1593:1594:1676:1699:1711:1714:1730:1747:1766:1792:2393:2557:2559:2562:3138:3769:3876:3877:5007:6114:6261:7901:10004:10400:11658:11914,0,RBL:216.40.41.197:@example.com:.lbl8.mailshell.net-64.201.201.20162.10.55.100,CacheIP:none,Bayesian:0.5,0.5,0.5,Netcheck:none,DomainCache:0,MSF:not bulk,SPF:ft,MSBL:none,DNSBL:none,Custom_rules:0:0:0"
  ],
  "delivered-to": [
    "joe_user@example.com"
  ],
  "x-fda": [
    "65578190076.03"
```

```

],
"subject": [
  "Please file your end of quarter reports by end of quarter"
],
"\t(authenticated sender": [
  "mrmanager@example.com) by omf01.dev.hostedemail.com
(Postfix) with ESMTP for <joe_user@example.com>; Mon, 21 Nov 2011
21:16:37 +0000 (UTC)"
],
"x-filterd-recvd-size": [
  "1266",
  "754"
],
"x-session-marker": [
  "6D726D616E616765724064656D6F636F2E636F6D"
],
"x-panda": [
  "scanned!",
  "scanned!"
],
"content-transfer-encoding": [
  "7bit"
],
"message-id": [
  "<1371513603.7.1321910197378.JavaMail.mail@webmail01>"
]
},
"folder-unicode": "INBOX",
"id":
"U2FsdGVkX1+MQJC6Usm5VuOm34dPzFZgt2Emm1SU0Tj0uWUDbjzvEQud/f+KKcMzMxZBbN
0zYwr7sXXV7buH0YdndTvu2+/Xg4gR1Fpitr6HUHLYhYnW+3y7brEWCT2a7duvqE7VKHpxA
hpCQKjyV+H2gaVzQ/Jfn4LQl6NnfLL0cXU0IFClAkpxHMyABcoZ",
"folder": "INBOX"
},
{
"headers": {
"return-path": [

```

OpenSRS Mail API

```
    "june_user@example.com"
  ],
  "date": [
    "Mon, 21 Nov 2011 21:14:21 +0000 (GMT)"
  ],
  "x-mailer": [
    "Webmail"
  ],
  "INTERNALDATE": [
    1321910752
  ],
  "content-type": [
    "multipart/mixed; boundary=\"-----
    =_Part_3_280999237.1321910061210\""
  ],
  "to": [
    "joe_user@example.com"
  ],
  "x-originating-ip": [
    "[10.0.63.198]"
  ],
  "from": [
    "June User <june_user@example.com>"
  ],
  "mime-version": [
    "1.0"
  ],
  "received": [
    "from smtprelay.dev.hostedemail.com (mail.dev.hostedemail.com
    [216.40.41.197]) by imf25.hostedemail.com (Postfix) with ESMTP for
    <joe_user@example.com>; Mon, 21 Nov 2011 21:14:24 +0000 (UTC)",
    "from filter.hostedemail.com (ff-bigip5 [10.5.49.254]) by
    smtprelay01.dev.hostedemail.com (Postfix) with SMTP id B447A19063B for
    <joe_user@example.com>; Mon, 21 Nov 2011 21:14:22 +0000 (UTC)",
    "from webmail01 (imap-ext [216.40.41.197])",
    "from 10.0.63.198 ([10.0.63.198]) by webmail01 (Webmail) with
    HTTP; Mon, 21 Nov 2011 21:14:21 +0000 (GMT)"
  ],

```

```

"x-spam-summary": [
    "20,1.5,0,641aaf435ac40a11,d41d8cd98f00b204,june_user@example
.com,joe_user@example.com,RULES_HIT:152:355:379:541:582:871:929:960:988
:989:1000:1152:1260:1261:1313:1314:1345:1373:1431:1437:1467:1516:1517:1
527:1536:1569:1575:1594:1676:1699:1711:1714:1730:1747:1764:1766:1792:21
94:2197:2199:2200:2375:2376:2393:2559:2562:2827:3138:3653:3867:3869:387
1:3873:4512:4513:4515:6119:6261:6353:6506:7281:7774:7874:7974:8957:9040
:9709:9913:10004:10400:10562:11604:11658:11914:11919:12043,0,RBL:216.40
.41.197:@example.com:.lbl8.mailshell.net-64.201.201.201
62.10.55.100,CacheIP:none,Bayesian:0.5,0.5,0.5,Netcheck:none,DomainCach
e:0,MSF:not bulk,SPF:ft,MSBL:none,DNSBL:none,Custom_rules:0:0:0"
],
"delivered-to": [
    "joe_user@example.com"
],
"x-fda": [
    "65578184490.04"
],
"subject": [
    "Check out this cute pic!"
],
"\t(authenticated sender": [
    "june_user@example.com) by omf01.dev.hostedemail.com
(Postfix) with ESMTP for <joe_user@example.com>; Mon, 21 Nov 2011
21:14:22 +0000 (UTC)"
],
"x-filterd-recvd-size": [
    "141147",
    "140632"
],
"x-session-marker": [
    "6A756E655F757365724064656D6F636F2E636F6D"
],
"x-panda": [
    "scanned!",
    "scanned!"
],
"message-id": [
    "<1001196937.4.1321910062338.JavaMail.mail@webmail01>"
]

```

OpenSRS Mail API

```
    ]
  },
  "folder-unicode": "INBOX",
  "id":
  "U2FsdGVkXl19oytJqrlnvKvM0y0E6rbv65exFb6K8fTwgq7PG3ihw0y74AttSiEPCpDic+E
  Ez4+BkGi7mAXWBqEsIqIfh7zQukN9nlUEoX+T73lLDprLjPHGMFjmgsYHc/MF2F8ufYAQi/
  GNY99+iQGQkUPmCTvE4jwpoT/LprjJY87beSHTLqI4KY3g4zJ/u8xNVF3/ywdg=",
  "folder": "INBOX"
},
{
  "headers": {
    "return-path": [
      "june_user@example.com"
    ],
    "date": [
      "Mon, 21 Nov 2011 21:15:24 +0000 (GMT)"
    ],
    "x-mailer": [
      "Webmail"
    ],
    "INTERNALDATE": [
      "1321910752"
    ],
    "content-type": [
      "text/html; charset=UTF-8"
    ],
    "to": [
      "joe_user@example.com"
    ],
    "x-originating-ip": [
      "[10.0.63.198]"
    ],
    "from": [
      "June User <june_user@example.com>"
    ],
    "mime-version": [
```

```

    "1.0"
  ],
  "received": [
    "from smtprelay.dev.hostedemail.com (mail.dev.hostedemail.com
[216.40.41.197]) by imf25.hostedemail.com (Postfix) with ESMTTP for
<joe_user@example.com>; Mon, 21 Nov 2011 21:15:26 +0000 (UTC)",
    "from filter.hostedemail.com (ff-bigip5 [10.5.49.254]) by
smtprelay01.dev.hostedemail.com (Postfix) with SMTP id AC9CF19063B for
<joe_user@example.com>; Mon, 21 Nov 2011 21:15:25 +0000 (UTC)",
    "from webmail01 (imap-ext [216.40.41.197])",
    "from 10.0.63.198 ([10.0.63.198]) by webmail01 (Webmail) with
HTTP; Mon, 21 Nov 2011 21:15:24 +0000 (GMT)"
  ],
  "x-spam-summary": [
    "1,0,0,5058f1af8388633f,d41d8cd98f00b204,june_user@example.co
m,joe_user@example.com,RULES_HIT:152:355:375:379:541:582:988:989:1152:1
224:1260:1261:1311:1313:1314:1345:1373:1515:1516:1517:1523:1534:1536:15
69:1593:1594:1676:1699:1711:1714:1730:1747:1766:1792:2393:2559:2562:313
8:3876:3877:5007:6114:6261:10004:10400:11658:11914,0,RBL:216.40.41.197:
@example.com:.lbl8.mailshell.net-64.201.201.201
62.8.55.100,CacheIP:none,Bayesian:0.5,0.5,0.5,Netcheck:none,DomainCache
:0,MSF:not bulk,SPF:fn,MSBL:none,DNSBL:none,Custom_rules:0:0:0"
  ],
  "delivered-to": [
    "joe_user@example.com"
  ],
  "x-fda": [
    "65578187052.05"
  ],
  "subject": [
    "Have you signed up for the Spring Party yet?"
  ],
  "\t(authenticated sender": [
    "june_user@example.com) by omf01.dev.hostedemail.com
(Postfix) with ESMTTP for <joe_user@example.com>; Mon, 21 Nov 2011
21:15:25 +0000 (UTC)"
  ],
  "x-filterd-recvd-size": [
    "1233",
    "721"
  ],

```

OpenSRS Mail API

```
"x-session-marker": [
  "6A756E655F757365724064656D6F636F2E636F6D"
],
"x-panda": [
  "scanned!",
  "scanned!"
],
"content-transfer-encoding": [
  "7bit"
],
"message-id": [
  "<1436882877.6.1321910125526.JavaMail.mail@webmail01>"
]
},
"folder-unicode": "INBOX",
"id":
"U2FsdGVkX1+cUef21BEodmVA2lgDHINRlgKL8VnxpMcr3McPwNr9ifXtXCekoSn1AdEZW4
eoNS77iHJ4tdv8by/CgqDSdNqDS+cATjXbXEKxR2kcr63X7+1d/4xOM0ldmbcSJ0DcZas3F
ipc9aJdAMwUxqUyPfhifHFnhGAmBoy7S8KKHkS/2TxQ9Ic50XX7",
"folder": "INBOX"
},
{
  "headers": {
    "date": [
      "Tue, 22 Nov 2011 19:00:56 +0000 (GMT)"
    ],
    "subject": [
      "Re: Banannanannananananana"
    ],
    "x-mailer": [
      "Webmail"
    ],
    "content-transfer-encoding": [
      "7bit"
    ],
    "INTERNALDATE": [
```

```

    1321988456
  ],
  "content-type": [
    "text/html; charset=UTF-8"
  ],
  "to": [
    "joe_user@example.com"
  ],
  "x-originating-ip": [
    "[10.0.63.197]"
  ],
  "cc": [
    "richard.platel@gmail.com, rplatel@example.com,
richard.platel+moo@gmail.com, richard.platel+xoo@gmail.com,
richard.platel+poo@gmail.com"
  ],
  "references": [
    "<1968605354.270.1321988431729.JavaMail.mail@webmail01>"
  ],
  "from": [
    "Joseph User <joe_user@example.com>"
  ],
  "mime-version": [
    "1.0"
  ],
  "received": [
    "from 10.0.63.197 ([10.0.63.197]) by webmail01 (Webmail) with
HTTP; Tue, 22 Nov 2011 19:00:56 +0000 (GMT)"
  ],
  "message-id": [
    "<2130206675.272.1321988456313.JavaMail.mail@webmail01>"
  ]
},
"folder-unicode": "Sent Items",
"id":
"U2FsdGVkX18pR0nXIwiJ34Pi7tCBsFdZQ+hna2Hb5yEfliegElKHugPC1MZJgvS6ADSJE2
CJMrRA9WC+8ULKL+/z5eX4GWH0qG5j3TZKRQQcFLCDYQs1RATePrCzKRye2PBz8CPJEnB+o
HyLS4aexStXKq8UVs5tDPHW+fxAWlALhZrQpnzBw5SVknqvkJhQIXE6GZBwGBQ=",

```

OpenSRS Mail API

```
    "folder": "Sent Items"
  },
  {
    "headers": {
      "return-path": [
        "june_user@example.com"
      ],
      "date": [
        "Mon, 21 Nov 2011 21:14:21 +0000 (GMT)"
      ],
      "x-mailer": [
        "Webmail"
      ],
      "INTERNALDATE": [
        "1321910752"
      ],
      "content-type": [
        "multipart/mixed; boundary=\"-----
=_Part_3_280999237.1321910061210\""
      ],
      "to": [
        "joe_user@example.com"
      ],
      "x-originating-ip": [
        "[10.0.63.198]"
      ],
      "from": [
        "June User <june_user@example.com>"
      ],
      "mime-version": [
        "1.0"
      ],
      "received": [
        "from smtprelay.dev.hostedemail.com (mail.dev.hostedemail.com
[216.40.41.197]) by imf25.hostedemail.com (Postfix) with ESMTP for
<joe_user@example.com>; Mon, 21 Nov 2011 21:14:24 +0000 (UTC)",
```

```

"from filter.hostedemail.com (ff-bigip5 [10.5.49.254]) by
smtprelay01.dev.hostedemail.com (Postfix) with SMTP id B447A19063B for
<joe_user@example.com>; Mon, 21 Nov 2011 21:14:22 +0000 (UTC)",
    "from webmail01 (imap-ext [216.40.41.197])",
    "from 10.0.63.198 ([10.0.63.198]) by webmail01 (Webmail) with
HTTP; Mon, 21 Nov 2011 21:14:21 +0000 (GMT)"
],
"x-spam-summary": [
    "20,1.5,0,641aaf435ac40a11,d41d8cd98f00b204,june_user@example
.com,joe_user@example.com,RULES_HIT:152:355:379:541:582:871:929:960:988
:989:1000:1152:1260:1261:1313:1314:1345:1373:1431:1437:1467:1516:1517:1
527:1536:1569:1575:1594:1676:1699:1711:1714:1730:1747:1764:1766:1792:21
94:2197:2199:2200:2375:2376:2393:2559:2562:2827:3138:3653:3867:3869:387
1:3873:4512:4513:4515:6119:6261:6353:6506:7281:7774:7874:7974:8957:9040
:9709:9913:10004:10400:10562:11604:11658:11914:11919:12043,0,RBL:216.40
.41.197:@example.com:.lbl8.mailshell.net-64.201.201.201
62.10.55.100,CacheIP:none,Bayesian:0.5,0.5,0.5,Netcheck:none,DomainCach
e:0,MSF:not bulk,SPF:ft,MSBL:none,DNSBL:none,Custom_rules:0:0:0"
],
"delivered-to": [
    "joe_user@example.com"
],
"x-fda": [
    "65578184490.04"
],
"subject": [
    "Check out this cute pic!"
],
"\t(authenticated sender": [
    "june_user@example.com) by omf01.dev.hostedemail.com
(Postfix) with ESMTP for <joe_user@example.com>; Mon, 21 Nov 2011
21:14:22 +0000 (UTC)"
],
"x-filterd-recvd-size": [
    "141147",
    "140632"
],
"x-session-marker": [
    "6A756E655F757365724064656D6F636F2E636F6D"
],
"x-panda": [

```

OpenSRS Mail API

```
        "scanned!",
        "scanned!"
    ],
    "message-id": [
        "<1001196937.4.1321910062338.JavaMail.mail@webmail01>"
    ]
},
"folder-unicode": "plus ça change",
"id":
"U2FsdGVkX1+FRyKE8mqxWO7BCySwid3bBxSx8Yy0ro+Ss/1n5PIdd/jylUTBhjAbxzItec
P5yCwChiZKxZyQ1n9bcicRxAWh7Cr6FYCV80y1w9BjpJoJxPdo9sa/jbUvQnGdbKGzaTqgR
VqcFFFhcgM7/WBFFfc6gEBE+apdt602KqtHBBnACis3FWL0LJq6hXGDhTF2wg2QWJzrbG2q
BW6nAkfduj2z",
"folder": "plus &A0c-a change"
}
],
}
```

Example 2

Retrieves messages with specific headers.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "joe_user@example.com",
  "headers": [
    "subject",
    "from"
  ]
}
```

Response

```
{
  "success": true,
  "count": 3
}
```

```

"messages": [
  {
    "headers": {
      "INTERNALDATE": [
        1321910752
      ],
      "from": [
        "June User <june_user@example.com>"
      ],
      "subject": [
        "IMPORTANT!! Please read!!!"
      ]
    },
    "folder-unicode": "INBOX",
    "id":
    "U2FsdGVkX1+OFA3m95RbsYdxH4EFoUGa2DUr8Zg+G+8hvH53T/RzR6hEBwIGfrSkfNadTQ
    TR2nb/OsRk9oBp01+/oUYKciim5sU1SI/k2uMed2tgyZtH7W4SY3UBMa17I+FQYGx/owSvx
    gjrYZHZQkiExpah6x5YaKqkph5CmXLKHvWGHjZNF28agK0KP0V",
    "folder": "INBOX"
  },
  {
    "headers": {
      "INTERNALDATE": [
        1321910752
      ],
      "from": [
        "June User <june_user@example.com>"
      ],
      "subject": [
        "Have you signed up for the Spring Party yet?"
      ]
    },
    "folder-unicode": "INBOX",
    "id":
    "U2FsdGVkX1+T0SHk/WSnTKkpVxHwTwtmJlz2mAf+bk8itlX7tHnbIJfi40EO5siFsOj98f
    Sz/qXdr/dQzvOrYs4fQpl0Juo76TQrKdfb1EGuYO79Rw2smAWA57DHKzizgbvEOdiBkSE9z
    f/HnZnh8hgTV4vQ8eYJ6JYza9PGbQ2c/Ox0TiY6Yb8yN/HmKURj",
    "folder": "INBOX"
  }
]

```

OpenSRS Mail API

```
},
{
  "headers": {
    "INTERNALDATE": [
      1321910752
    ],
    "from": [
      "Manager <mrmanager@example.com>"
    ],
    "subject": [
      "Please file your end of quarter reports by end of quarter"
    ]
  },
  "folder-unicode": "INBOX",
  "id":
  "U2FsdGVkX1+TadnPrnXWEz0gB2x1rcV6Zr1ND3+U4gnpAkXGh6LiT0E9L6GLDgNq85Vf/r
  XJ6Ka111DsFPT4qChnyV+9uqbJSRWzZC26h2Ajpg+RK+lObcn6f23Cfyj+8sqQz07ikmFI4t
  vV15RImJjC7QPthdtYmxcbRhH+fjVPcOz/RbknRhcZ/KeDJsYiD",
  "folder": "INBOX"
}
],
}
```

get_user

Description

The **get_user** method retrieves the settings and values for a specified user.

If the specified user does not exist, you can create that user, and so the response contains the **settable_attributes** and **metadata options** that allow a UI client to populate a page of attributes and drop-down options. The response also contains **metadata defaults** that would be assigned to attributes that are not specified in the user creation request.

Syntax

Request

```
{
  <credentials object>,
  "user": <mailbox_name>
}
```

Response

```
{
  "success": true,
  "settable_attributes": [<attribute names>],
  "type": mailbox | filter | forward,
  "metadata":
  {
    "roles": {role name: [<list of objects>]}
    "quota": {
      "bytes_max": <number of bytes in quota>,
      "bytes_used": <number of bytes used>,
      "messages_max": <number of messages in quota>,
      "messages_used": <number of messages>
    },
    "folders": [list of email folder names]
    "special_folders": {
      "spam": <user's spam folder name>
    }
  }
  "options": { <key-value pairs>},
  "addressbook": {
```

OpenSRS Mail API

```
        "contacts": <number of contacts in user's webmail address
book>,
        "groups": <number of groups in user's webmail address
book>,
        "total": <number of contacts and groups in user's webmail
address book>,
        "max": <maximum number of contacts and groups allowed>
    }
    "createtime": <mailbox creation time>,
    "smtp_limit": {
        "when": {<time when limits apply>},
        "max": <maximum number of messages that user may send in a
24 hour period>,
        "sent": <number of messages sent in the last 24 hour
period>,
        "free_passes": <number of free passes available to the
user>,
        "free_passes_remaining": <number of free passes remaining
in the 24 hour period>
    }
    "inherit": {
        "brand": <brand>,
        "default_password_encoding": <encoding type>,
        "filterdelivery": <quarantine | passthrough>,
        "smtp_sent_limit": <number>,
        "spamfolder": <folder>,
        "spamheader": <header>,
        "spamttag": <tag>,
        "spamlevel": <level>
    }
    "lastlogin": <last login as UNIX epoch time>,
    "status": active | deleted | suspended | quota | smtp_limit
}
"attributes": { <key-value pairs>
}
```

Request fields for `get_user`

The following fields can be used in the `get_user` method:

Field name	Obligation	Definition/Value
user	Required	The user's email address.

Response fields for `get_user`

The following fields may be returned in response to the `get_user` method:

Field name	Obligation	Description/Value
attributes	Returned if success = true	The user's current account settings. For more information, see the Attributes table below.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
metadata	Always returned	<p>A list of the account settings that can be set for a new user or changed for an existing user. Allowed values are:</p> <ul style="list-style-type: none"> ▪ addressbook—The limits and usage of the user's address book. Includes the following: <ul style="list-style-type: none"> ▪ contacts—The number of contacts in the user's address book. ▪ deleted_contacts: A count of the user's deleted contacts that <i>may</i> be available for restoration (if the backup exists). ▪ groups—The number of groups in the user's address book. ▪ max—The maximum number of contacts and groups that the user can have in the address book. ▪ total—The total number of contacts and groups that are currently in the user's address book. ▪ createtime—The date that the account was created. ▪ defaults—Returned if the user does not

Field name	Obligation	Description/Value
		<p>already exist. Indicates the settings that would apply to a new user if not explicitly set. These values are inherited from the domain level. Allowed values are delivery, language, quota, and timezone. See the Attributes table for an explanation of each of these values.</p> <ul style="list-style-type: none"> ▪ folders—A list of the user's email folders. ▪ inherit—The domain level values that will be assigned if they are not explicitly set for this user. Includes the following: <ul style="list-style-type: none"> ▪ brand—The Webmail brand for this mailbox. ▪ default_password_encoding—The type of password hashing/encoding to be performed when OpenSRS receives an unencrypted password. ▪ filterdelivery—The way in which spam messages are handled. ▪ smtp_sent_limit—The number of messages that the user is allowed to send in a 24 hour period. ▪ spamfolder—The folder into which messages identified as spam will be delivered. ▪ spamheader—The tag that is added to messages that are identified as spam. ▪ spamtag—The value of this field is prepended to the subject of any message that is identified as spam. ▪ spamlevel—The level of aggressiveness set for the spam filter. ▪ lastlogin—The last time the user logged in to the mailbox, expressed as a UNIX epoch time. <p>Note: This is the same data that is available through the stats_snapshot method; it is not real time data and may be 24-48 hours behind.</p> <ul style="list-style-type: none"> ▪ mailstore—The storage subsystem that

Field name	Obligation	Description/Value
		<p>is holding the user's mail.</p> <ul style="list-style-type: none"> ▪ options—The list of account settings that can be set or changed for a user. Includes all available values for each setting to allow a UI client to populate a page of attributes and drop-down options. Allowed settings are brand, language, quota, spamlevel, timezone, and workgroup. For an explanation of each of these values, see the Attributes table for an explanation of each of these values. ▪ quota—The amount of storage this user is consuming, and their maximum . Includes bytes_max (in bytes), messages_used, messages_max, and bytes_used (in bytes). ▪ roles—The user's admin level, and the objects owned at that level. ▪ smtp_limit—The maximum number of messages that this user is allowed to send in a 24 hour period. Includes the following: <ul style="list-style-type: none"> ▪ free_passes—The number of messages the user is allowed to send that have been identified as spam or that may contain viruses ▪ free_passes_remaining—The number of free passes remaining in the 24 hour window ▪ max—The maximum number of messages allowed. ▪ sent—The number of messages that were sent in the last 24 hours. ▪ when—The time (in UNIX Epoch time) when the user may send an email to some given number of recipients, or 0 if the user could send to that number of recipients immediately or -1 if the user will never be able to send to that number of recipients (because the number is greater than the user's max). ▪ special_folders—The user's spam

Field name	Obligation	Description/Value
		<p>folder - the folder in which messages that are determined to be spam will be stored.</p> <ul style="list-style-type: none"> ▪ status—The mailbox status. Allowed values are: <ul style="list-style-type: none"> ▪ active—The mailbox is currently active. ▪ deleted—The mailbox has been deleted. ▪ suspended—The mailbox has been suspended and the user cannot send or receive mail. ▪ quota—The mailbox is over quota and cannot receive any more mail. ▪ smtplimit—The mailbox is at the smtp limit and the user cannot send any more mail. The smtp limit applies to a sliding 24 hour period, so as time goes by, this status changes.
settable_attributes	Always returned	<p>The list of attributes that can be set for a new user or changed for an existing user. Allowed values are: aliases, allow, autoresponder, autoresponder_option_enddate, autoresponder_option_interval, block, brand, delivery_autoresponder, delivery_filter, delivery_forward, delivery_local, fax, filterdelivery, forward_option_reply_to, forward_option_restricted, forward_option_subject_prefix, forward_recipients, language, macsettings, name, notes_external, password, phone, quota, reject_spam, service_imap4, service_pop3, service_smtpin, service_smtprelay, service_smtprelay_webmail, service_webmail, sieve, spamfolder, apam_header, spamlevel, spamtag, timezone, title, workgroup.</p> <p>For an explanation of each of these attributes, see the Attributes table below.</p>
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Field name	Obligation	Description/Value
type	Returned if success = true	The type of account. Allowed values are mailbox , filter , forward , or alias .

Attributes fields

The following fields may be returned within the **attributes** array.

Field name	Obligation	Definition/Value
account	Always returned	The user's complete email address, for example, joe_user@example.com.
aliases	Optional	The list of alternate names for the account, for example, joe@example.com, joey@example.com, juser@example.com. Mail that is sent to an alias address is delivered to the account. The alias address can be used to log in to the account via IMAP4, POP3, Webmail and SMTP The maximum number of aliases is 2000.
allow	Optional	A list of email addresses on the user's allow list; may include wildcards. For example joe_goodguy@bigmail.com and *@example.com. Maximum is 1000 addresses.
autoresponder	Optional	The text of the message that is automatically sent back to senders if delivery_autoresponder is set to true . Maximum size is 4000 characters.
autoresponder_option_enddate	Optional	The date that the autoresponder expires, expressed in UNIX Epoch time. If not specified, the autoresponder never expires.
autoresponder_option_interval	Optional	The number of hours that must pass before the autoresponder message is sent again to the same address. Must be less than 1095 (3 years) If not set, an interval of 24 hours is used.

Field name	Obligation	Definition/Value
block	Optional	A list of email addresses on the user's block list; may include wildcards. For example, bob_thejerk@othermail.com and *@spammers-inc.com. Messages from these addresses will always be considered to be spam. Maximum is 1000 addresses.
brand	Optional	The Webmail brand for this mailbox. If not specified, the account uses the domain setting.
delivery_automresponder	Optional	If set to true , the configured auto response message is sent to the sender.
delivery_filter	Optional	If set to true , messages are scanned and then passed to the domain's filter mx host; the messages are not stored locally. Note: If delivery_filter = true , all other delivery attributes must be false .
delivery_forward	Optional	If set to true , the message is forwarded to the mailbox's forward_recipients list.
delivery_local	Optional	If set to true , the message is passed through the mailbox's sieve filters and stored locally.

Field name	Obligation	Definition/Value
<p>The following combinations of delivery attributes may be used:</p> <ul style="list-style-type: none"> ▪ delivery_local—Mail is stored locally. ▪ delivery_local, delivery_forward—Mail is stored locally and forwarded. ▪ delivery_forward—Mail is forwarded. ▪ delivery_local, delivery_autoresponder—Mail is stored locally, automatic reply sent. ▪ delivery_local, delivery_forward, delivery_autoresponder—Mail is stored locally and forwarded, automatic reply sent. ▪ delivery_forward, delivery_autoresponder—Mail is forwarded, automatic reply sent. ▪ delivery_filter—Mail is forwarded to domain-defined mail host. <p>Note: No matter which delivery setting you specify, incoming messages are always scanned for viruses, and, depending on the mailbox's allow list, scanned for spam.</p>		
fax	Optional	The fax number for the account owner; maximum 30 characters.
filterdelivery	Optional	<p>Determines what happens to spam messages:</p> <ul style="list-style-type: none"> ▪ quarantine—Spam messages are stored locally in the user's spam folder. ▪ passthrough—Spam messages are delivered with the specified spamtag and spamheader. <p>If not defined, the account uses the domain's filterdelivery setting.</p>
forward_option_restricted	Optional	If set to true and delivery_forward is also set to true , only messages from addresses on the forward recipients list are forwarded.
forward_option_subject_prefix	Optional	If delivery_forward is set to true , this string is added to the beginning of the Subject line of forwarded messages. String can be up to 128 characters.

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Field name	Obligation	Definition/Value
forward_option_reply_to	Optional	If delivery_forward is set to true , this email address is added to the Reply-To header of forwarded messages.
forward_recipients	Optional	If delivery_forward is set to true , incoming messages will be forwarded to this list of addresses. Maximum number of addresses is 1000.
language	Optional	The default language in which the mailbox will be displayed. May be overridden by the user.
macsettings	Optional	A string that contains the user's MAC UI preferences. Only used by the MAC; not recommended for use by other applications. Maximum 2048 characters.
max_pab_entries	Optional	The maximum number of entries (contacts and groups) that the user can have in their address book.
name	Optional	The name that is used in the From field of email messages. The format is UTF-8 text up to 512 characters.
notes_external	Always returned	Any notes that were added through the change_user method. Maximum is 4096 characters. If there are no notes, returns null .
password	Optional	Indicates whether a password is set. If a password exists, it is displayed as ***** If there is no password, the returned value is null .
phone	Optional	The user's phone number; maximum 30 characters.
quota	Optional	The maximum amount of storage (in bytes) that the mailbox may use, including mail and file storage.

Field name	Obligation	Definition/Value
reject_spam	Optional	Indicates whether spam messages are rejected at the SMTP level. Allowed values are true and false .
service_imap4	Optional	The current setting for the IMAP4 service (enabled , disabled , or suspended). If enabled , the user can log in via IMAP4.
service_pop3	Optional	The current setting for the POP3 service (enabled , disabled , or suspended). If enabled , the user can log in via POP3.
service_smtpin	Optional	The current setting for the SMTPIN service (enabled, disabled, or suspended). If enabled, the user can send email.
service_smtprelay	Optional	The current setting for the SMTPRELAY service (enabled , disabled , or suspended).
service_smtprelay_webmail	Optional	The current setting for the SMTPRELAY Webmail service (enabled, disabled, or suspended). If enabled, the user can send email via Webmail.
service_webmail	Optional	The current setting for the Webmail service (enabled , disabled , or suspended). If enabled , the user can log in via Webmail.
<p>Note: If any of the above service values (that is, service_imap4, service_pop3, service_smtpin, service_smtprelay, service_smtprelay_webmail or service_webmail) are set to suspended, the service can only be set to enabled or disabled by an admin of the same or higher level (for example, a domain admin cannot change a service that was suspended by a company admin).</p>		
sieve	Optional	The user's sieve filters.

Field name	Obligation	Definition/Value
smtp_sent_limit	Optional	The number of messages that the user can send in a 24 hour period. Maximum number is 10,000. If not defined, the domain's smtp_sent_limit is used. Note: If the same message is sent to two recipients, it counts as two messages against this limit.
spamfolder	Optional	The folder into which messages identified as spam will be delivered. Maximum 128 characters. Nested folders are separated by the '/' character, for example, "Archive/Junk/Spam" If not defined, the mailbox uses the domain's spamfolder setting.
spamheader	Optional	The tag that is added to messages that are identified as spam. Maximum 512 characters.
spamlevel	Optional	The level of aggressiveness set for the spam filter. Valid values are Normal , High , and Very High . If not set, the mailbox uses the domain's spamlevel setting.
spamtage	Optional	The value of this field is prepended to the subject of any message that is identified as spam. Maximum 30 characters. If not defined, the mailbox uses the domain's spamtage setting. Note: This value is not supported for filteronly accounts.
timezone	Optional	The timezone that the mailbox will use.
title	Optional	The user's job title; maximum 60 characters.
workgroup	Optional	The workgroup to which the user belongs.

Examples for get_user

Example 1

Shows the result for joe_user@example.com who is near his smtp_sent limit and currently unable to send a message with 25 recipients.

Request

```
{
  "credentials": {
    "user": "admin@example.com",
    "password": "xyz"
  },
  "user": "joe_user@example.com"
}
```

Response

```
{
  "success": true,
  "settable_attributes": [
    "aliases",
    "allow",
    "autoresponder",
    "autoresponder_option_enddate",
    "autoresponder_option_interval",
    "block",
    "brand",
    "delivery_autoresponder",
    "delivery_filter",
    "delivery_forward",
    "delivery_local",
    "fax",
    "filterdelivery",
    "forward_option_reply_to",
    "forward_option_restricted",
    "forward_option_subject_prefix",
    "forward_recipients",
  ]
}
```

OpenSRS Mail API

```
"language",
"macsettings",
"name",
"notes_external",
"password",
"phone",
"quota",
"reject_spam",
"service_imap4",
"service_pop3",
"service_smtpin",
"service_smtprelay",
"service_smtprelay_webmail",
"service_webmail",
"sieve",
"spamfolder",
"spamheader",
"spamlevel",
"spamtage",
"timezone",
"title",
"workgroup"
],
"type": "mailbox",
"metadata": {
  "roles": {},
  "quota": {
    "bytes_max": "5368709120",
    "messages_used": 2,
    "messages_max": "2684354",
    "bytes_used": 1540
  },
},
"folders": [
  "INBOX",
  "Spam",
```

```
"Drafts",
"Trash",
"Sent Items"
],
"mailstore": "mailstore53",
"options": {
  "quota": [
    0,
    15360
  ],
  "workgroup": [
    "sales",
    "staff"
  ],
  "timezone": [
    "Pacific/Wake",
    "Pacific/Niue",
    "Pacific/Honolulu",
    "America/Anchorage",
    "America/Vancouver",
    "America/Edmonton",
    "America/Chicago",
    "America/Havana",
    "America/Montreal",
    "America/Caracas",
    "America/Puerto_Rico",
    "America/St_Johns",
    "America/Buenos_Aires",
    "America/Sao_Paulo",
    "America/Noronha",
    "Atlantic/Azores",
    "Europe/London",
    "Europe/Amsterdam",
    "Africa/Algiers",
    "Europe/Helsinki",
```

OpenSRS Mail API

```
"Asia/Jerusalem",
"Africa/Johannesburg",
"Africa/Cairo",
"Asia/Amman",
"Asia/Damascus",
"Europe/Moscow",
"Asia/Tehran",
"Indian/Mauritius",
"Asia/Baku",
"Asia/Kabul",
"Asia/Karachi",
"Asia/Calcutta",
"Asia/Katmandu",
"Asia/Dhaka",
"Asia/Rangoon",
"Asia/Phnom_Penh",
"Asia/Hong_Kong",
"Australia/Perth",
"Asia/Tokyo",
"Australia/Adelaide",
"Australia/Darwin",
"Australia/Brisbane",
"Australia/Melbourne",
"Pacific/Guadalcanal",
"Pacific/Norfolk",
"Pacific/Auckland",
"Pacific/Chatham",
"Pacific/Tongatapu"
],
"language": [
  "el",
  "en",
  "es",
  "fr",
  "de",
```

```
    "it",
    "pt_BR",
    "nl",
    "da",
    "no",
    "sv"
  ],
  "brand": [
    null,
    "Default Brand",
    "Demo Co Brand"
  ],
  "spamlevel": [
    null,
    "Very High",
    "High",
    "Normal"
  ]
],
},
"addressbook": {
  "contacts": 0,
  "max": "500",
  "groups": 0,
  "total": 0
},
"createtime": "1321902300",
"smtp_limit": {
  "free_passes": 10,
  "when": {
    "1": 0,
    "10": 0,
    "25": 1322074845,
    "50": -1,
    "100": -1,
    "250": -1,
```

OpenSRS Mail API

```
    "500": -1
  },
  "max": 35,
  "free_passes_remaining": 10
  "sent": 0
},
"inherit": {
  "default_password_encoding": "BCRYPT-10",
  "smtp_sent_limit": "500",
  "spamfolder": ".Spam",
  "spamheader": null,
  "brand": "bcom1",
  "spamtage": null,
  "filterdelivery": "local",
  "spamlevel": "90"
},
"special_folders": {
  "spam": "Spam"
},
"lastlogin": "1374674727",
"status": "active"
},
"attributes": {
  "forward_option_subject_prefix": null,
  "max_pab_entries": 500,
  "service_smtprelay": "enabled",
  "forward_option_restricted": null,
  "forward_option_reply_to": null,
  "password": null,
  "forward_recipients": [],
  "autoresponder_option_enddate": null,
  "filterdelivery": null,
  "timezone": "America/Montreal",
  "name": "Joseph User",
  "workgroup": "staff",
```

```
"spamtag": null,  
"service_smtprelay_webmail": "enabled",  
"title": null,  
"service_webmail": "enabled",  
"spamlevel": null,  
"quota": 5120,  
"spamfolder": null,  
"spamheader": null,  
"brand": null,  
"delivery_autoresponder": false,  
"autoresponder": null,  
"fax": null,  
"service_smtpin": "enabled",  
"delivery_forward": false,  
"autoresponder_option_interval": 1,  
"reject_spam": null,  
"delivery_filter": false,  
"service_imap4": "enabled",  
"language": "en",  
"smtp_sent_limit": null,  
"account": "joe_user@example.com",  
"service_pop3": "enabled",  
"phone": null,  
"macsettings": null,  
"notes_external": "Joe is a good guy.\nHelp him if you can.",  
"aliases": [],  
"block": [],  
"allow": [],  
"delivery_local": true,  
"sieve": null  
}  
}
```

Example 2

Shows the result for mrmanager@example.com who is an admin of the workgroup sales.

OpenSRS Mail API

Request

```
{
  "credentials": {
    "user": "admin@example.com",
    "password": "xyz"
  },
  "user": "mrmanager@example.com"
}
```

Response

```
{
  "success": true,
  "settable_attributes": [
    "aliases",
    "allow",
    "autoresponder",
    "autoresponder_option_enddate",
    "autoresponder_option_interval",
    "block",
    "brand",
    "delivery_autoresponder",
    "delivery_filter",
    "delivery_forward",
    "delivery_local",
    "fax",
    "filterdelivery",
    "forward_option_reply_to",
    "forward_option_restricted",
    "forward_option_subject_prefix",
    "forward_recipients",
    "language",
    "macsettings",
    "name",
    "notes_external",
    "password",
  ]
}
```

```

    "phone",
    "quota",
    "reject_spam",
    "service_imap4",
    "service_pop3",
    "service_smtpin",
    "service_smtprelay",
    "service_smtprelay_webmail",
    "service_webmail",
    "sieve",
    "spamfolder",
    "spamheader",
    "spamlevel",
    "spamtage",
    "timezone",
    "title",
    "workgroup"
  ],
  "type": "mailbox",
  "metadata": {
    "roles": {
      "workgroup": [
        "example.com/sales"
      ]
    },
    "quota": {
      "bytes_max": "5368709120",
      "messages_used": 1,
      "messages_max": "2684354",
      "bytes_used": 518
    },
    "folders": [
      "INBOX",
      "Spam",
      "Drafts",

```

OpenSRS Mail API

```
"Trash",
  "Sent Items"
],
"mailstore": "mailstore01",
"options": {
  "quota": [
    0,
    15360
  ],
  "workgroup": [
    "sales",
    "staff"
  ],
  "timezone": [
    "Pacific/Wake",
    "Pacific/Niue",
    "Pacific/Honolulu",
    "America/Anchorage",
    "America/Vancouver",
    "America/Edmonton",
    "America/Chicago",
    "America/Havana",
    "America/Montreal",
    "America/Caracas",
    "America/Puerto_Rico",
    "America/St_Johns",
    "America/Buenos_Aires",
    "America/Sao_Paulo",
    "America/Noronha",
    "Atlantic/Azores",
    "Europe/London",
    "Europe/Amsterdam",
    "Africa/Algiers",
    "Europe/Helsinki",
    "Asia/Jerusalem",
```

```
"Africa/Johannesburg",
"Africa/Cairo",
"Asia/Amman",
"Asia/Damascus",
"Europe/Moscow",
"Asia/Tehran",
"Indian/Mauritius",
"Asia/Baku",
"Asia/Kabul",
"Asia/Karachi",
"Asia/Calcutta",
"Asia/Katmandu",
"Asia/Dhaka",
"Asia/Rangoon",
"Asia/Phnom_Penh",
"Asia/Hong_Kong",
"Australia/Perth",
"Asia/Tokyo",
"Australia/Adelaide",
"Australia/Darwin",
"Australia/Brisbane",
"Australia/Melbourne",
"Pacific/Guadalcanal",
"Pacific/Norfolk",
"Pacific/Auckland",
"Pacific/Chatham",
"Pacific/Tongatapu"
],
"language": [
  "el",
  "en",
  "es",
  "fr",
  "de",
  "it",
```

OpenSRS Mail API

```
    "pt_BR",
    "nl",
    "da",
    "no",
    "sv"
  ],
  "brand": [
    null,
    "Default Brand",
    "Demo Co Brand"
  ],
  "spamlevel": [
    null,
    "Very High",
    "High",
    "Normal"
  ]
},
"addressbook": {
  "contacts": 0,
  "max": "500",
  "groups": 0,
  "total": 0
},
"createtime": "1321902530",
"smtp_limit": {
  "free_passes": 10,
  "when": {
    "1": 0,
    "10": 0,
    "25": 0,
    "50": 0,
    "100": 0,
    "250": 0,
    "500": 0,
```

```
    "750": 0
  },
  "max": 750,
  "free_passes_remaining": 9,
  "sent": 1
},
"inherit": {
  "default_password_encoding": "BCRYPT-10",
  "smtp_sent_limit": "500",
  "spamfolder": ".Spam",
  "spamheader": null,
  "brand": "bcom1",
  "spamtage": null,
  "filterdelivery": "local",
  "spamlevel": "90"
},
"special_folders": {
  "spam": "Spam"
}
},
"attributes": {
  "forward_option_subject_prefix": null,
  "max_pab_entries": 500,
  "service_smtprelay": "enabled",
  "forward_option_restricted": null,
  "forward_option_reply_to": null,
  "password": null,
  "forward_recipients": [],
  "autoresponder_option_enddate": null,
  "filterdelivery": null,
  "timezone": "America/Montreal",
  "name": "Manager",
  "workgroup": "sales",
  "spamtage": null,
  "service_smtprelay_webmail": "enabled",
```

OpenSRS Mail API

```
"title": "Mr.",
"service_webmail": "enabled",
"spamlevel": null,
"quota": 5120,
"spamfolder": null,
"spamheader": null,
"brand": null,
"delivery_autoresponder": false,
"autoresponder": null,
"fax": null,
"service_smtpin": "enabled",
"delivery_forward": false,
"autoresponder_option_interval": 1,
"reject_spam": null,
"delivery_filter": false,
"service_imap4": "enabled",
"language": "en",
"smtp_sent_limit": null,
"account": "mrmanager@example.com",
"service_pop3": "enabled",
"phone": null,
"macsettings": null,
"notes_external": null,
"aliases": [],
"block": [],
"allow": [],
"delivery_local": true,
"sieve": null
}
}
```

Example 3

Shows the results for a user that does not exist.

Request

```
{
```

```
"credentials": {
  "user": "domain_admin@example.com",
  "password": "pencil75"
},
"user": "no_such_guy@example.com"
}
```

Response

```
{
  "success": false,
  "settable_attributes": [
    "aliases",
    "allow",
    "autoresponder",
    "autoresponder_option_enddate",
    "autoresponder_option_interval",
    "block",
    "brand",
    "delivery_autoresponder",
    "delivery_filter",
    "delivery_forward",
    "delivery_local",
    "fax",
    "filterdelivery",
    "forward_option_reply_to",
    "forward_option_restricted",
    "forward_option_subject_prefix",
    "forward_recipients",
    "language",
    "macsettings",
    "name",
    "notes_external",
    "password",
    "phone",
    "quota",
    "reject_spam",
```

OpenSRS Mail API

```
"service_imap4",
"service_pop3",
"service_smtpin",
"service_smtprelay",
"service_smtprelay_webmail",
"service_webmail",
"sieve",
"spamfolder",
"spamheader",
"spamlevel",
"spamttag",
"timezone",
"title",
"workgroup"
],
"error_number": 2,
"error": "The requested object does not exist",
"metadata": {
  "options": {
    "quota": [
      0,
      15360
    ],
    "workgroup": [
      "sales",
      "staff"
    ],
    "timezone": [
      "Pacific/Wake",
      "Pacific/Niue",
      "Pacific/Honolulu",
      "America/Anchorage",
      "America/Vancouver",
      "America/Edmonton",
      "America/Chicago",
```

"America/Havana",
"America/Montreal",
"America/Caracas",
"America/Puerto_Rico",
"America/St_Johns",
"America/Buenos_Aires",
"America/Sao_Paulo",
"America/Noronha",
"Atlantic/Azores",
"Europe/London",
"Europe/Amsterdam",
"Africa/Algiers",
"Europe/Helsinki",
"Asia/Jerusalem",
"Africa/Johannesburg",
"Africa/Cairo",
"Asia/Amman",
"Asia/Damascus",
"Europe/Moscow",
"Asia/Tehran",
"Indian/Mauritius",
"Asia/Baku",
"Asia/Kabul",
"Asia/Karachi",
"Asia/Calcutta",
"Asia/Katmandu",
"Asia/Dhaka",
"Asia/Rangoon",
"Asia/Phnom_Penh",
"Asia/Hong_Kong",
"Australia/Perth",
"Asia/Tokyo",
"Australia/Adelaide",
"Australia/Darwin",
"Australia/Brisbane",

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```
    "Australia/Melbourne",
    "Pacific/Guadalcanal",
    "Pacific/Norfolk",
    "Pacific/Auckland",
    "Pacific/Chatham",
    "Pacific/Tongatapu"
  ],
  "language": [
    "el",
    "en",
    "es",
    "fr",
    "de",
    "it",
    "pt_BR",
    "nl",
    "da",
    "no",
    "sv"
  ],
  "brand": [
    null,
    "Default Brand",
    "Demo Co Brand"
  ],
  "spamlevel": [
    null,
    "Very High",
    "High",
    "Normal"
  ]
},
"inherit": {
  "default_password_encoding": "BCRYPT-10",
  "smtp_sent_limit": "500",
  "spamfolder": ".Spam",
```

```
    "spamheader": null,  
    "brand": "bcom1",  
    "spamttag": null,  
    "filterdelivery": "local",  
    "spamlevel": "90"  
  },  
  "defaults": {  
    "service_imap4": "enabled",  
    "quota": 5120,  
    "language": "en",  
    "timezone": "America/Montreal",  
    "service_smtprelay": "enabled",  
    "max_pab_entries": 500,  
    "service_pop3": "enabled",  
    "workgroup": "staff",  
    "service_smtprelay_webmail": "enabled",  
    "service_smtpin": "enabled",  
    "service_webmail": "enabled",  
    "autoresponder_option_interval": 1  
  }  
}  
}
```

get_user_attribute_history

Description

The `get_user_attribute_history` method retrieves the historical values for an attribute for a specified user.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "attribute": <attribute name>
}
```

Request fields for get_user_attribute_history

The following fields can be used in the `get_user_attribute_history` method:

Field name	Obligation	Definition/Value
attribute	Required	The name of the attribute to query. For a list of the allowed attributes see " Response fields for get user ".
user	Required	The user's email address.

Response fields for get_user_attribute_history

The following fields may be returned in response to the `get_user_attribute_history` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
history	Returned if success = true	The value for the attribute submitted in the request, and the most recent time that the attribute had the reported value. May include more than one entry if the value of the attribute changed.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for get_user_attribute_history

This example gets the old values for the name attribute for the user joe_user@example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "joe_user@example.com",
  "attribute": "name"
}
```

Response

```
{
  "success": true,
  "history": {
    "1321902300": "Joseph User",
    "1321902660": "Joe User",
    "1325704186": "Joey User"
  }
}
```

get_user_changes

Description

The **get_user_changes** method retrieves a summary of the changes made to a user account.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "range": {
    "first": <number>,
    "limit": <number>
  }
}
```

Request fields for get_user_changes

The following fields can be used in the **get_user_changes** method:

Field name	Obligation	Definition/Value
range	Optional	The range of results to return. Allowed values are: <ul style="list-style-type: none"> ▪ first—The 0-based index of the first result to return. ▪ limit—The maximum number of results to return.
user	Required	The name of the user's account.

Response fields for get_user_changes

The following fields may be returned in response to the **get_user_changes** method:

Field name	Obligation	Description/Value
changes	Returned if success = true	An array of hashes, one hash for each change returned. The array is sorted by the time of the change, with the earliest change listed first. For each change the following information is returned: <ul style="list-style-type: none"> ▪ application—The name of the application used to perform the change. ▪ msg—A brief summary of the change

Field name	Obligation	Description/Value
		<p>made. If the changed data is short, it is shown; otherwise, the number of bytes in the new value is shown</p> <ul style="list-style-type: none"> ▪ time—The time that the change was made, in UNIX Epoch time. ▪ user—The name of the user that performed the change. If the change was performed by the system, the user "OpenSRS" is shown.
count	Returned if success = true	The number of items (changes) in the array.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
total_count	Returned if success = true	The total number of changes available.

Examples for get_user_changes

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "range": {
    "first": 20,
    "limit": 10
  },
  "user": "jane_user@example.com"
}
```

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Response

```
{
  "success": true,
  "total_count": 29,
  "count": 9,
  "changes": [
    {
      "msg": "changed default_sort_order [descending]",
      "time": "1321903552",
      "application": "OMA",
      "user": "domain_admin@example.com"
    },
    {
      "msg": "changed timezone [America/Montreal]",
      "time": "1321903552",
      "application": "OMA",
      "user": "domain_admin@example.com"
    },
    {
      "msg": "changed language [en]",
      "time": "1321903552",
      "application": "OMA",
      "user": "domain_admin@example.com"
    },
    {
      "msg": "changed name [Janet User]",
      "time": "1321903552",
      "application": "OMA",
      "user": "domain_admin@example.com"
    },
    {
      "msg": "changed confirm_send [false]",
      "time": "1321903552",
      "application": "OMA",
      "user": "domain_admin@example.com"
    }
  ]
}
```

```
},
{
  "msg": "changed msgs_per_page [20]",
  "time": "1321903552",
  "application": "OMA",
  "user": "domain_admin@example.com"
},
{
  "msg": "changed spamtag [[JUNK]]",
  "time": "1321903721",
  "application": "OMA",
  "user": "jane_user@example.com"
},
{
  "msg": "changed sessions [32 bytes]",
  "time": "1321907872",
  "application": "OMA",
  "user": "domain_admin@example.com"
},
{
  "msg": "changed block [*@badmail.com]",
  "time": "1327005780",
  "application": "mac:OMA",
  "user": "company_admin@example.adm"
}
]
}
```

get_user_folders

Description

The **get_user_folders** method retrieves a list of a user's current and deleted folders.

Syntax

```
{
  <credentials object>
  "user": <mailbox_name>
}
```

Request fields for get_user_folders

The following fields can be used in the **get_user_folders** method:

Field name	Obligation	Definition/Value
user	Required	The user's account name.

Response fields for get_user_folders

The following fields may be returned in response to the **get_user_folders** method:

Field name	Obligation	Description/Value
deleted_folders	Returned if success = true	A list of the user's deleted folders.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
folders	Returned if success = true	A list of the user's existing folders. Sub folders are listed by their whole path, and are dot separated.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for get_user_folders

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "joe_user@example.com"
}
```

Response

```
{
  "success": true,
  "folders": [
    "INBOX",
    "Spam",
    "Drafts",
    "Trash",
    "Sent Items",
    "2011",
    "plus ça change",
    "2011.Q2",
    "2011.Q1",
    "2011.Q3",
    "2011.Q4",
    "2011.Q1.January Pictures of Kitties"
  ],
  "deleted_folders": [
    "plus ça change.bananas"
  ]
}
```

get_user_messages

Description

The **get_user_messages** method returns a list of user messages in a specified folder.

Syntax

```
{
  <credentials object>
  "user": <mailbox_name>,
  "folder": <folder_name>
}
```

Request fields for get_user_messages

The following fields can be used in the **get_user_messages** method:

Field name	Obligation	Definition/Value
folder	Optional	The folder to search for messages. If not specified, the INBOX folder is searched.
limit	Optional	Specify the number of messages to return.
recent	Optional	Orders the results with the most recent listed first. This setting only applies if limit is also specified.
unseen	Optional	Return a list of only those messages that have been delivered to the user, but have not yet been displayed in the user's mail client or through Webmail.
user	Required	The user's account name.

Specifying a combination of **unseen**, **limit**, and **recent** would be useful as a follow-up call to the `user_notify` method for a Reseller portal, for example, you could check to see if there are new messages, and then fetch the five most recent message headers to display to the end user.

Response fields for get_user_messages

The following fields may be returned in response to the **get_user_messages** method:

Field name	Obligation	Description/Value
------------	------------	-------------------

Field name	Obligation	Description/Value
count	Returned if success = true	The number of messages returned in the messages list.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
messages	Returned if success = true	A list of the messages in the specified folder. Includes the following information for each message listed: <ul style="list-style-type: none"> ▪ headers—A hash containing the message headers and their values. ▪ id—the message id. The id number is used by the move_user_messages method.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for get_user_messages

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "joe_user@example.com",
  "folder": "Trash"
}
```

Response

```
{
  "success": true,
  "messages": [
    {
      "headers": {
        "INTERNALDATE": [
          1325879547
        ]
      }
    }
  ]
}
```

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```
    ],
    "content-disposition": [
      "inline"
    ],
    "content-type": [
      "text/plain; charset=us-ascii"
    ],
    "date": [
      "Fri Jan 6 19:52:27 2012"
    ],
    "subject": [
      "Welcome!"
    ],
    "from": [
      "Mister Manager <mrmanager@example.com>"
    ]
  },
  "id":
  "U2FsdGVkX1/1NoyVE6nnFbezjndojMcc+wKwHMv6alN1D6+ANvZ0sJovSQ8wpPPW7Gb0iv
  Du/6v0fJWAIrR2S0"
},
{
  "headers": {
    "INTERNALDATE": [
      1326918028
    ],
    "content-disposition": [
      "inline"
    ],
    "content-type": [
      "text/plain; charset=us-ascii"
    ],
    "date": [
      "Wed Jan 18 20:20:28 2012"
    ],
    "subject": [
```

```

    "Please empty the fridge!"
  ],
  "from": [
    "Mister Manager <mrmanager@example.com>"
  ]
},
  "id":
  "U2FsdGVkX181ebK9176pd1Iyfsn8Cad5r3lJF9Dj/dskhl0kLi4wdf2nC2n/qgGZ16yK/JOs42nSuEaWgyy/ZG
},
{
  "headers": {
    "return-path": [
      "joey.joe@bigmail.com"
    ],
    "subject": [
      "Thought you might find this interesting"
    ],
    "date": [
      "Wed, 18 Mar 2009 15:17:16 -0400"
    ],
    "domainkey-signature": [
      "a=rsa-sha1; c=noaws; d=bigmail.com; s=gamma; h=mime-
version:date:message-id:subject:from:to:content-type;
b=iTWQ0kqo3VI9vtYLylGLjEFTibCMnQXCnSAJub8G1QwYh6UFQWtsssja6brVeBsMQm
OZ5s7fOD9Tjq5hm52lw2O5VEdM+l8UtxzUIyVbabTbJBinvQlZXuHM1lEhDLJWK+mr6R
j5URFTFMsLolEV38iOQPS+y8g3xSLbZZtkWYs="
    ],
    "INTERNALDATE": [
      1326918153
    ],
    "content-type": [
      "multipart/mixed; boundary=0016e64601e61d626b0465698817"
    ],
    "to": [
      "<joe_user@example.com>"
    ],
    "dkim-signature": [

```

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```
"v=1; a=rsa-sha256; c=relaxed/relaxed; d=bigmail.com;
s=gamma; h=domainkey-signature:mime-version:received:date:message-
id:subject :from:to:content-type;
bh=a1Rv1C+CVwx+e7ngmXH4/KHUuXpinJk5JMA1wqoZAss=;
b=nyeK2yYuuV0pQrKXdqrPAwO1wskMLNZ9byvxH2IknVuaS2bHHt3641v1FrZQsvVRSk
IO8GZi/5GySlUHpQhyUONJhaol/w1/nCZcf/0VAgE5bcWwHSf199Dks7ymY6Gw82uShz
/wwBuhKEijuskGloKojyXEzBo0JHPrGl6Bv7g="

],
"from": [
  "Joseph Joeson <joej.joe@bigmail.com>"
],
"mime-version": [
  "1.0"
],
"received": [
  "by 10.220.95.68 with SMTP id
c4mr1102844vcn.25.1237403836440; Wed, 18 Mar 2009 12:17:16 -0700
(PDT)"
],
"message-id": [
  "<402aef9e0903181217i69a6b7c6obdc1d88212d7f41c@mail.bigmail.c
om>"
]
},
"id":
"U2FsdGVkX18701M4DRzWHCApojAWZnk/vumzyS5NKi9K8xjM3XA3WGJk3/mrHW118I12ca
/X/rGSnhmwja+Yl4emx
}
],
"count": 3
}
```

logout_user

Description

The **logout_user** method terminates all IMAP and POP sessions that the specified user has active.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>
}
```

Request fields for logout user

The following fields can be used in the **logout_user** method:

Field name	Obligation	Definition/Value
user	Required	The user's email address.

Response fields for logout user

The following fields may be returned in response to the **logout_user** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for logout_user

This example terminate all current IMAP and POP sessions for joe_user@example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
```

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```
"password": "pencil75"  
},  
"user": "joe_user@example.com"  
}
```

Response

```
{  
"success": true  
}
```

move_user_messages

Description

The **move_user_messages** method moves the specified user messages to a different folder.

Syntax

```
{
  <credentials object>
  "user": <mailbox_name>,
  "ids": [<list of message ids>]
  "folder": <destination folder>
}
```

Request fields for move_user_messages

The following fields can be used in the **move_user_messages** method:

Field name	Obligation	Definition/Value
folder	Optional	The folder to search for messages. If not specified, the INBOX folder is searched.
ids	Required	The list of ids that you want to move. The ids are returned by the get_user_messages method.
user	Required	The user's account name.

Response fields for move_user_messages

The following fields may be returned in response to the **move_user_messages** method:

Field name	Obligation	Description/Value
count	Returned if success = true	The number of messages returned in the messages list.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
ids	Returned if	A list of hashes, one for each of the message ids submitted in the request. Includes the

Field name	Obligation	Description/Value
	success = true	following information for each message listed: <ul style="list-style-type: none"> ▪ error—A text string that explains the error. ▪ error_number—A number that represents the error. ▪ id—The id number of the message. ▪ success—Indicates whether the message was moved successfully or not. Allowed values are true and false.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for move_user_messages

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "joe_user@example.com",
  "folder": "Spam",
  "ids": [
    "U2FsdGVkX1/1NoyVE6nnFbezjndojMCC+wKwHMv6al2buE2jNziDQTGzZUA7Gb0ivDu/6v0fJWAIrR2S0"
  ]
}
```

Response

```
{
  "success": true,
  "ids": [
    {
      "success": true,
      "id":
      "U2FsdGVkX1/1NoyVE6nnFbezjndojMCC+wKwHMv6al2buE2jNziDQTGzZUA7Gb0ivDu/6v0fJWAIrR2S0"
    }
  ]
}
```

```
    }  
  ],  
}
```

reindex

Description

The reindex method regenerates the specified mailbox index file.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "folder": <folder to reindex>
  "id": <job id>
}
```

Request fields for reindex

The following fields can be used in the reindex method:

Field name	Obligation	Definition/Value
folder	Optional	The folder that you want to reindex. If not specified, all folders belonging to the user will be reindexed.
id	Optional	The job to check status of. If id is present, folder is ignored.
user	Required	The user whose account you want to reindex.

Response fields for reindex

The following fields may be returned in response to the reindex method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false.

Examples for reindex

Example 1

This example reindexes the Inbox folder for account bob@example.com

Request

```
{
  "credentials": {
    "user": "company_admin@democo.adm",
    "password": "pencil75"
  },
  "user": "bob@example.com",
  "folder": "INBOX"
}
```

Response

```
{
  "success": true,
  "status": "pending",
  "id": "07c08a3b763f0c0d497f7bd2e86f5c45",
  "audit": "light04_509173eea"
}
```

Example 2

This example checks to see if the reindexing job completed and includes four possible responses.

Request

```
{
  "credentials": {
    "user": "company_admin@democo.adm",
    "password": "pencil75"
  },
  "user": "bob@example.com",
  "id": "07c08a3b763f0c0d497f7bd2e86f5c45"
}
```

Response A

The job still pending.

```
{  
  "success": true,  
  "status": "pending",  
  "id": "07c08a3b763f0c0d497f7bd2e86f5c45",  
  "audit": "light04_509173eea"  
}
```

Response B

The job is processing.

```
{  
  "success": true,  
  "status": "active",  
  "id": "07c08a3b763f0c0d497f7bd2e86f5c45",  
  "audit": "light04_509173eea"  
}
```

Response C

The job has completed.

```
{  
  "success": true,  
  "status": "complete",  
  "id": "07c08a3b763f0c0d497f7bd2e86f5c45",  
  "audit": "light04_509173eea"  
}
```

Response D

The job ended with an error.

```
{  
  "success": true,  
  "status": "error:some error",  
  "id": "07c08a3b763f0c0d497f7bd2e86f5c45",  
  "audit": "light04_509173eea"  
}
```

rename_user

Description

The **rename_user** method changes a user's mailbox name; does not affect any of the existing email or settings. The mailboxes must be in the same domain.

Caution: When you rename an account, all of the history that is associated with that account is deleted and cannot be accessed by the email restore tool or the PAB (address book) restore tool. The renamed account begins accumulating history (backups) starting from the date that you rename the account, and email and PAB information can be restored only from this new history.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "new_name": <newname>
}
```

Request fields for rename_user

The following fields can be used in the **rename_user** method:

Field name	Obligation	Definition/Value
new_name	Required	The new name for the mailbox.
user	Required	The current name of the mailbox.

Response fields for rename_user

The following fields may be returned in response to the **rename_user** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for rename_user

Request

```
{
  "credentials": {
    "user": "marlin@example.com",
    "password": "sw0rdf1sh"
  },
  "user": "robsonwilk@example.com",
  "new_name": "rwilk@example.com"
}
```

Response

```
{
  "success": true
}
```

restore_deleted_contacts

Description

The **restore_deleted_contacts** method restores deleted contacts for a specified user. To get a list of the contacts that can be restored, use the [get_deleted_contacts](#) method.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "ids": ["list of ids"]
}
```

Request fields for restore_deleted_contacts

The following fields can be used in the **restore_deleted_contacts** method:

Field name	Obligation	Definition/Value
ids	Required	The IDs for the messages that you want to restore. To get a list of the messages that can be restored, use the get_deleted_contacts method.
user	Required	The name of the mailbox.

Response fields for restore_deleted_contacts

The following fields may be returned in response to the **restore_deleted_contacts** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
ids	Returned if success = true	Contains a list of the contacts and indicates whether each one was successfully restored or not. Includes the following: <ul style="list-style-type: none"> ▪ error—A text string that explains the error. ▪ error_number—A number that represents the error.

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ id—The contact id number. ▪ success—Indicates whether this contact was restored or not. Allowed values are true and false.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for restore_deleted_contacts

This example tries to restore some deleted contacts for joe_user@example.com - one that exists and one that does not.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "joe_user@example.com",
  "ids": [
    "1321909823__1321909700169",
    "1321909823__1321909700180"
  ]
}
```

Response

```
{
  "success": true,
  "ids": [
    {
      "success": true,
      "id": "1321909823__1321909700169"
    },
    {
      "success": false,
      "error_number": 2,

```

```
"error": "The requested object does not exist",  
"id": "1321909823__1321909700180"  
}  
]  
}
```

restore_deleted_messages

Description

The **restore_deleted_messages** method restores specific deleted messages. To get a list of the messages that can be restored, use the [get_deleted_messages](#) method.

Note: If a message is deleted immediately after it is delivered, you may not be able to restore it.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "ids": ["list of message ids"]
}
```

Request fields for restore_deleted_messages

The following fields can be used in the **restore_deleted_messages** method:

Field name	Obligation	Definition/Value
ids	Required	The IDs for the messages that you want to restore. To get a list of the messages that can be restored, use the get_deleted_messages method.
user	Required	The name of the mailbox.

Response fields for restore_deleted_messages

The following fields may be returned in response to the **restore_deleted_messages** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
ids	Returned if success = true	Contains a list of the messages and indicates whether each one was successfully restored or not.

Field name	Obligation	Description/Value
		Includes the following: <ul style="list-style-type: none"> ▪ error—A text string that explains the error. ▪ error_number—A number that represents the error. ▪ id—The message id number. ▪ success—Indicates whether this message was restored or not. Allowed values are true and false.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for restore_deleted_messages

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "user": "robson@example.com",
  "ids": [
    "U2Fsd+ZoLG/DDD314dKu6D4eU0iuHvKz+T/nB//+Ga6UkJL1v0c/eH0gNznK",
  ]
}
```

Response

```
{
  "success": true,
  "ids": [
    {
      "success": true,
      "id":
      "U2Fsd+ZoLG/DDD314dKu6D4eU0iuHvKj+T/nB//+Ga6UkJL1v0c/eH0gNznK"
    },
  ]
}
```

restore_user

Description

The **restore_user** method restores specified user accounts that have been deleted for 30 days or less.

You can restore an account to its original name only if that account name has not been reissued during the period in which the account was deleted. Otherwise, you can restore the account to any name that is available.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "id": <id>,
  "new_name": <new account>
}
```

Request fields for restore_user

The following fields can be used in the **restore_user** method:

Field name	Obligation	Definition/Value
id	Required	A unique ID that identifies the user. To get a list of the accounts that can be restored, use the search_users method.
new_name	Required	Rename the restored account.
user	Required	The deleted user's account name (email address).

Response fields for restore_user

The following fields may be returned in response to the **restore_user** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.

Field name	Obligation	Description/Value
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for restore_user

Example 1

Restores a user and keeps the same name.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "user": "jenny@example.com",
  "ids": "1308694526",
  "new_name": "jenny@example.com"
}
```

Response

```
{
  "success": true
}
```

Example 2

Restores a user and changes the name.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "user": "june_user@example.com",
  "id": "1308694526",
}
```

OpenSRS Mail API

```
"new_name": "june_user_restore@example.com"  
}
```

Response

```
{  
  "success": true  
}
```

search_users

Description

The **search_users** method searches for users in a specified domain. You must specify the domain to search, and you can submit other criteria to narrow your search. Each additional criteria field that you specify further narrows the search, and wildcard characters are allowed.

Syntax

Request

```
{
  <credentials object>,
  "criteria": {
    "domain": <domain name>,
    "workgroup": <workgroup name>,
    "type": [<one or more of mailbox, filter, forward, or alias>]
    "match": <wildcard pattern>,
    "deleted": TRUE | FALSE,
    "status": [<one or more of active, deleted, suspended,
smtplimit, or quota>]
  }
  "range": {
    "first": <number>,
    "limit": <number>
  }
  "sort": {
    by: <createtime | delete_time | id | lastlogin | status |
target | type | user | workgroup>,
    direction: <ascending | descending>
  }
  "fields": [<one or more of createtime, forward, lastlogin ,
smtplimit, status, or workgroup>]
}
```

Response

```
{
  "success": true,
  "count": <number>,
}
```

OpenSRS Mail API

```
"total_count": <number>,
"users": [
  {
    "user": <user name>,
    "workgroup": <workgroup name>,
    "type": mailbox | filter | forward | alias,
    "forward_receipient_count": <number>,
    "forward_receipient": <email address>,
    "alias_target": <username>,
    "id":<string>,
    "status":<string>,
    "createtime":<epoch timestamp>,
    "lastlogin":<epoch timestamp>
  }
  <...>
]
}
```

Request fields for search_users

The following fields can be used in the **search_users** method:

Field name	Obligation	Definition/Value
criteria	Required	<p>Narrows the results by restricting the search to the specified fields and their values.</p> <p>Note: You must specify the domain; all other criteria are optional.</p> <p>Allowed values are:</p> <ul style="list-style-type: none">▪ deleted—Specifies whether to return only deleted user accounts. Allowed values are true and false.▪ domain—Specifies the domain to search. This is required.▪ match—Returns only those user accounts that match the specified pattern. You can use the following wildcards:<ul style="list-style-type: none">▪ ?—Match a single character▪ *—Match multiple characters.▪ status—Returns only those user account with the specified status. If not specified, returns all statuses except deleted. Allowed values are:

Field name	Obligation	Definition/Value
		<ul style="list-style-type: none"> ▪ active—Mailbox is currently active. ▪ deleted—Mailbox has been deleted. ▪ quota—Mailbox is over quota and cannot receive any more mail. ▪ smtplimit—Mailbox is at the smtp limit and user cannot send any more mail. ▪ aup—Mailbox has been suspended and user cannot send or receive mail. ▪ type—Returns only user accounts of the specified type. Allowed values are: <ul style="list-style-type: none"> ▪ alias—Alias mailboxes ▪ filter—Filter-only mailboxes ▪ forward—Forward-only mailboxes ▪ mailbox—Regular mailboxes ▪ workgroup—Returns only user accounts in the specified workgroup. <p>The criteria fields work together to restrict the results, for example, if both workgroup and match are specified, the method returns only those users that are in that workgroup and match the pattern.</p>
fields	Optional	<p>Additional fields to return. Allowed values are: createtime, forward, lastlogin, status, type, and workgroup.</p> <p>If not specified, defaults to workgroup and status.</p>
range	Optional	<p>Limits the range of user accounts to display. Allowed values are:</p> <ul style="list-style-type: none"> ▪ first—Specify the first user to return; the default is the first result. ▪ limit—Specify the maximum number of users to return.

Field name	Obligation	Definition/Value
sort	Optional	<p>Determines the way in which to sort and display results. Allowed values are:</p> <ul style="list-style-type: none"> ▪ by—Specify the attribute to use to sort results. Allowed values are: <ul style="list-style-type: none"> ▪ createtime—The date when the account was create, in UNIX Epoch time. ▪ delete_time—The time the user account was deleted. Can be used only if criteria = deleted. ▪ id—The identification number of the soft deleted account. ▪ lastlogin—The last time (displayed in UNIX Epoch time) that the user successfully logged in via pop3, imap4, webmail, or smtprelay. ▪ status—The status of the account. ▪ target—The alias target or forward target of the user. ▪ type—The type of user: alias, filter, forward, or mailbox. ▪ user—The user name (this is the default). ▪ workgroup—The user's workgroup. ▪ direction—Specify the sort order. Allowed values are ascending (default) or descending.

Response fields for search_users

The following fields may be returned when the **search_users** method is submitted:

Field name	Obligation	Description/Value
count	Returned if success = true	The number of users returned.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Field name	Obligation	Description/Value
total_count	Returned if success = true	The total number of users that match the search criteria. This value may be more than the number of results returned if a range was specified in the request.
users	Returned if success = true	<p>A list of the mailboxes that meet the criteria, and, optionally, their attributes.</p> <p>Allowed values are:</p> <ul style="list-style-type: none"> ▪ alias_target—The user for which this account is an alias. Returned only if the account is an alias. ▪ createtime—The date when the account was create, in UNIX Epoch time. Only displayed if specified in the fields part of the request. ▪ forward_recipient—Returned only if the mailbox forwards to one or more addresses. If the mailbox forwards to only one address, that address is displayed; otherwise, the returned value is null. ▪ forward_recipient_count—Returned only if the mailbox forwards to one or more addresses. Specifies the number of addresses to which this account forwards. ▪ id—The identification number of the account. Returned only if deleted = true. ▪ lastlogin—The last time (displayed in UNIX Epoch time) that the user successfully logged in via pop3, imap4, webmail, or smtprelay. Not returned for aliases. Only present if specified in fields part of request. <p>Note: The lastlogin timestamp may be up to 48 hours out of date.</p> <ul style="list-style-type: none"> ▪ status—The status of the account. May be one of the following: <ul style="list-style-type: none"> ▪ active—mailbox is currently active ▪ deleted—mailbox has been deleted ▪ quota—mailbox is over quota and cannot receive any more mail. ▪ smtplimit—mailbox is at the smtp limit and user cannot send any more mail.

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ suspended—mailbox has been suspended and user cannot send or receive mail. ▪ type—The type of account. May be one of the following: <ul style="list-style-type: none"> ▪ alias—Alias mailbox ▪ filter—Filter-only mailbox ▪ forward—Forward-only mailbox ▪ mailbox—Regular mailbox ▪ user—The user name for the account. ▪ workgroup—The workgroup to which the user account belongs. Returned only if the user is not an alias.

Examples for search_users

Example 1

Searches for all users in the domain example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com"
  }
}
```

Response

```
{
  "success": true,
  "users": [
    {
      "workgroup": "staff",
      "user": "domain_admin@example.com",

```

```
"status": "active",
"type": "mailbox"
},
{
  "workgroup": "staff",
  "user": "james_user@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "workgroup": "staff",
  "forward_recipient": "janet.user@bigmail.xom",
  "forward_recipient_count": 1,
  "user": "jane_user@example.com",
  "status": "active",
  "type": "forward"
},
{
  "workgroup": "interns",
  "user": "jeff@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "user": "jennifer_user@example.com",
  "alias_target": "jenny@example.com",
  "status": "active",
  "type": "alias"
},
{
  "workgroup": "interns",
  "user": "jenny@example.com",
  "status": "active",
  "type": "mailbox"
},
```

OpenSRS Mail API

```
{
  "workgroup": "interns",
  "forward_recipient": null,
  "forward_recipient_count": 2,
  "user": "jim@example.com",
  "status": "active",
  "type": "forward"
},
{
  "workgroup": "staff",
  "user": "joe_user@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "workgroup": "staff",
  "user": "june_user@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "workgroup": "sales",
  "user": "mrmanager@example.com",
  "status": "active",
  "type": "mailbox"
}
],
"count": 10,
"total_count": 10
}
```

Example 2

Retrieves all users in the domain example.com, sorted by workgroup, in reverse alphabetical order .

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com"
  },
  "sort": {
    "by": "workgroup",
    "direction": "descending"
  }
}
```

Response

```
{
  "success": true,
  "users": [
    {
      "workgroup": "staff",
      "user": "domain_admin@example.com",
      "status": "active",
      "type": "mailbox"
    },
    {
      "workgroup": "staff",
      "user": "james_user@example.com",
      "status": "active",
      "type": "mailbox"
    }
  ]
}
```

OpenSRS Mail API

```
"workgroup": "staff",
"forward_recipient": "janet.user@bigmail.xom",
"forward_recipient_count": 1,
"user": "jane_user@example.com",
"status": "active",
"type": "forward"
},
{
  "workgroup": "staff",
  "user": "joe_user@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "workgroup": "staff",
  "user": "june_user_restored@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "workgroup": "sales",
  "user": "mrmanager@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "workgroup": "interns",
  "user": "jeff@example.com",
  "status": "active",
  "type": "mailbox"
},
{
  "workgroup": "interns",
  "user": "jenny@example.com",
  "status": "active",
```

```

    "type": "mailbox"
  },
  {
    "workgroup": "interns",
    "forward_recipient": null,
    "forward_recipient_count": 2,
    "user": "jim@example.com",
    "status": "active",
    "type": "forward"
  },
  {
    "user": "jennifer_user@example.com",
    "alias_target": "jenny@example.com",
    "status": "active",
    "type": "alias"
  }
],
"count": 10,
"total_count": 10
}

```

Example 3

Retrieves all the forward and alias users in the domain example.com.

Request

```

}
"credentials": {
  "user": "domain_admin@example.com",
  "password": "pencil75"
},
"criteria": {
  "domain": "example.com",
  "type": [
    "forward",
    "alias"
  ]
}

```

OpenSRS Mail API

```
}  
}
```

Response

```
{  
  "success": true,  
  "users": [  
    {  
      "workgroup": "staff",  
      "forward_recipient": "janet.user@bigmail.xom",  
      "forward_recipient_count": 1,  
      "user": "jane_user@example.com",  
      "status": "active",  
      "type": "forward"  
    },  
    {  
      "user": "jennifer_user@example.com",  
      "alias_target": "jenny@example.com",  
      "status": "active",  
      "type": "alias"  
    },  
    {  
      "workgroup": "interns",  
      "forward_recipient": null,  
      "forward_recipient_count": 2,  
      "user": "jim@example.com",  
      "status": "active",  
      "type": "forward"  
    }  
  ],  
  "count": 3,  
  "total_count": 3  
}
```

Example 4

Retrieves the first three users in the domain example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com"
  },
  "range": {
    "first": 0,
    "limit": 3
  }
}
```

Response

```
{
  "success": true,
  "users": [
    {
      "workgroup": "staff",
      "user": "domain_admin@example.com",
      "status": "active",
      "type": "mailbox"
    },
    {
      "workgroup": "staff",
      "user": "james_user@example.com",
      "status": "active",
      "type": "mailbox"
    },
    {
      "workgroup": "staff",
```

OpenSRS Mail API

```
    "forward_recipient": "janet.user@bigmail.com",
    "forward_recipient_count": 1,
    "user": "jane_user@example.com",
    "status": "active",
    "type": "forward"
  }
],
"count": 3,
"total_count": 10
}
```

Example 5

Retrieves the second three users in the domain example.com.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com"
  },
  "range": {
    "first": 3,
    "limit": 3
  }
}
```

Response

```
{
  "success": true,
  "users": [
    {
      "workgroup": "interns",
      "user": "jeff@example.com",
```

```

    "status": "active",
    "type": "mailbox"
  },
  {
    "user": "jennifer_user@example.com",
    "alias_target": "jenny@example.com",
    "status": "active",
    "type": "alias"
  },
  {
    "workgroup": "interns",
    "user": "jenny@example.com",
    "status": "active",
    "type": "mailbox"
  }
],
"count": 3,
"total_count": 10
}

```

Example 6

Retrieves all deleted users in the domain example.com.

Request

```

{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com",
    "deleted": true
  }
}

```

Response

```
{
  "success": true,
  "users": [
    {
      "workgroup": "staff",
      "user": "jack_user@example.com",
      "type": "mailbox",
      "status": "deleted",
      "id": "1321905217"
    }
  ],
  "count": 1,
  "total_count": 1
}
```

Example 7

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "criteria": {
    "domain": "example.com"
  },
  "fields": ["status", "lastlogin", "createtime"]
}
```

Response

```
{
  "success": true,
  "users": [
    {
      "status": "quota",
```

```
    "user": "tucker@example.com",
    "lastlogin": "",
    "createtime": "1340021200"
  },
  {
    "status": "smtplimit",
    "user": "robson@example.com",
    "lastlogin": "",
    "createtime": "1340021200"
  },
  {
    "status": "suspended",
    "user": "martin@example.com",
    "lastlogin": "",
    "createtime": "1340021200"
  },
  {
    "status": "active",
    "user": "roscoe@example.com",
    "lastlogin": "1350000000",
    "createtime": "1330971427"
  }
],
"count": 4,
"total_count": 4,
"audit": "pin28_514b678124"
}
```

set_role

Description

The **set_role** method assigns a role to the specified user, removing any previous role. Roles give users administration rights over users, domains, and so on.

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>,
  "role": "role_name",
  "object": "admin_object"
}
```

Request fields for set_role

The following fields can be used in the **set_role** method:

Field name	Obligation	Definition/Value
object	Required	The object over which the user will have administration rights. Companies, and domains are given by name. Workgroups are given as "domain/workgroup". A user must be a member of the object given. For example, a workgroup admin must be in the specified workgroup; a domain admin must be in the specified domain.
role	Required	The name of the role. Allowed values are: company , company_mail , company_ro , company_token_only , company_view , domain , mail , and workgroup . <ul style="list-style-type: none"> • company—Performs all functions of a domain administrator in all domains within their company, and can edit their company information and suspend accounts. They can also add or remove domains and create and assign administrators, including company_mail, company_ro, and company_view admins. • company_mail—Can view and edit non-billable mailbox settings, cannot create or delete mailboxes or edit domain settings • company_ro—Can view everything that a

Field name	Obligation	Definition/Value
		<p>company administrator can, but does not have the ability to make changes.</p> <ul style="list-style-type: none"> • company_token_only—Can generate SSO tokens for users in any domains in their company. This is their only responsibility; they cannot view or change settings for domains or users. • company_view—Is similar to the company admin role except that the role does not have the ability to create or delete domains or mailboxes. • domain—Performs all functions of a workgroup administrator. In addition, can add/remove workgroups and workgroup administrators as well as manage and brand their domain. • mail—Manages mailboxes within the domain for which they are administrators. Typical tasks may be changing passwords, setting forwarding, adding or removing aliases, and setting auto responders. • workgroup—Creates, deletes, and manages mailboxes within any workgroups for which they are administrators. <p>To remove a role, pass null or "" (empty string) for the role name.</p>
user	Required	The user to whom you are assigning a role.

Response fields for set_role

The following fields may be returned in response to the **set_role** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned.	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for set_role

This example make user mrmanager@example.com a workgroup admin of the workgroup sales.

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "mrmanager@example.com",
  "role": "workgroup",
  "object": "example.com/sales"
}
```

Response

```
{
  "success": true
}
```

user_notify

Description

The **user_notify** method checks to see if the specified user has any unseen mail in their Inbox.

This method can be run by the following admin types:

- company
- company_mail
- company_mail2
- company_view
- domain
- mail
- workgroup

Syntax

```
{
  <credentials object>,
  "user": <mailbox_name>
}
```

Request fields for user_notify

The following fields can be used in the **user_notify** method:

Field name	Obligation	Definition/Value
user	Required	The user's email address.

Response fields for user_notify

The following fields may be returned in response to the **user_notify** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
new_mail	Returned if success = true	Indicates whether or not there is unseen mail in the specified user's Inbox. Allowed values are true and false .

Field name	Obligation	Description/Value
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for user_notify

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "pencil75"
  },
  "user": "b@b.com"
}
```

Response

If the Inbox contains unread mail

```
{
  "success": true,
  "new_mail": true,
  "audit": "pin28_514b678124"
}
```

Response

If the Inbox does not contain any unread mail

```
{
  "success": true,
  "new_mail": false,
  "audit": "hammer28_514b678124"
}
```

Brand methods

This section contains the following method:

- `search_brands`—Retrieves a list of brands in a company.

search_brands

Description

The `search_brands` method retrieves a list of brands in a company.

Syntax

```
{
  <credentials object>,
  "criteria": {
    "company": <company>,
    "match": <wildcard pattern>,
    "deleted": true | false
  }
  range:{
    "first": <number>,
    "Limit": <number>
  }
}
```

Request fields for search_brands

The following fields can be used in the `search_brands` method:

Field name	Obligation	Definition/Value
criteria	Optional	Narrows the search for brands. Allowed values are: <ul style="list-style-type: none"> ▪ company—The company in which to search for brands. If not specified, the requester's company is used. ▪ deleted—Specify whether the brand has been deleted or not. Allowed values are true and false. ▪ match—Specify a wildcard pattern to search for brand names. The ? wildcard matches a single character and the *wildcard matches a string of characters
range	Optional	Restricts the number of results that are returned. Allowed values are: <ul style="list-style-type: none"> ▪ first—The 0-based index of the first result to return. ▪ limit—The maximum number of results to return.

Response fields for search_brands

The following fields may be returned in response to the **search_brands** method:

Field name	Obligation	Description/Value
brands	Returned if success = true	An array that contains an alphabetical list of the brands that meet the specified criteria and indicates the brands usage. Displays the following: <ul style="list-style-type: none"> ▪ brand—The brand name. ▪ counts—The number of domains and users assigned this brand. Includes the following values: <ul style="list-style-type: none"> ▪ domain—The number of domains to which the brand is assigned. ▪ total—The total number of domains and users to which the brand is assigned. ▪ user—The number of users to which the brand is assigned.
count	Returned if success = true	The number of brands returned in the response.
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
total_count	Returned if success = true	The total number of brands that meet the criteria specified in the request. Note: If range is specified in the request, this value may be larger than the value of count .

Examples for search_brands

Example 1

Retrieves all brands in the requester's company.

Request

```
{
  "credentials": {
    "user": "company_admin@example.com",
    "password": "sw0rdf1sh"
  }
}
```

Response

```
{
  "success": true,
  "brands": [
    {
      "brand": "Example Co Brand",
      "counts": {
        "domain": 0,
        "user": 0,
        "total": 0
      }
    },
    {
      "brand": "Example Co Test Brand",
      "counts": {
        "domain": 0,
        "user": 0,
        "total": 0
      }
    }
  ],
  "count": 2,
  "total_count": 2
}
```

Example 2

Retrieves all brands that contain "Test" in the brand name.

Request

```
{
  "credentials": {
    "user": "company_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "criteria": {
    "match": "*Test*"
  }
}
```

Response

```
{
  "success": true,
  "brands": [
    {
      "brand": "Example Co Test Brand",
      "counts": {
        "domain": 0,
        "user": 0,
        "total": 0
      }
    }
  ],
  "count": 1,
  "total_count": 1
}
```

Stats methods

This section contains the following methods:

- `stats_list`—Retrieves a list of available stats periods for use with the `stats_snapshot` method.
- `stats_snapshot`—Generates a URL from which a stats snapshot can be downloaded.
- `stats_summary`—Displays summary statistics for a user, domain, or company.

stats_list

Description

The `stats_list` method retrieves a list of available stats periods for use with the [stats_snapshot](#) method.

Syntax

```
{
  <credentials object>
}
```

Response fields for stats_list

The following fields may be returned in response to the `stats_list` method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
snapshots	Returned if success = true	The list of snapshot periods. Allowed values are <ul style="list-style-type: none"> ▪ month—List of monthly snapshots, in the format <i>YYYY-MM</i>. ▪ week—List of weekly snapshots, in the format <i>YYYYMMDD-YYYYMMDD</i>. ▪ day—List of daily snapshots, in the format, <i>YYYYMMDD</i>.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for stats_list

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
}
```

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Response

```
{
  "success": true,
  "snapshots": {
    "month": [
      "2011-01",
      "2011-02",
      "2011-03",
      "2011-04",
      "2011-05",
      "2011-06"
    ],
    "week": [
      "20110103-20110109",
      "20110110-20110116",
      "20110117-20110123",
      "20110124-20110130",
      "20110131-20110206",
      "20110207-20110213",
      "20110214-20110220",
      "20110221-20110227",
      ...
      "20110620-20110626",
      "20110627-20110703",
    ],
    "day": [
      "20110111",
      "20110107",
      "20110112",
      "20100314",
      "20110113",
      "20110114",
      "20110115",
      ...
      "20110629",
    ]
  }
}
```

```
    "20110630",  
  ]  
}  
}
```

stats_snapshot

Description

The **stats_snapshot** method generates a URL from which a stats snapshot can be downloaded.

Note: URLs are valid for only 15 minutes after generation.

Syntax

```
{
  <credentials object>
  "type": company | domain,
  "object": <name of the company or domain>,
  "date": <stats period from stats_list>
}
```

Request fields for stats_snapshot

The following fields can be used in the **stats_snapshot** method:

Field name	Obligation	Definition/Value
date	Required	The date for which you want to see statistics, in the format YYYY-MM. Available periods can be retrieved by using the stats_list method.
object	Required	The name of the company or domain
type	Required	The type of entity for which you want to see statistics. Allowed values are company or domain .

Response fields for stats_snapshot

The following fields may be returned in response to the **stats_snapshot** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
snapshot	Returned if	The URL from which you can download the

Field name	Obligation	Description/Value
	success = true	stats for the specified period.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for stats_snapshot

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "object": "example.com",
  "type": "domain",
  "date": "2010-11"
}
```

Response

```
{
  "success": true,
  "snapshot":
  "https://admin.a.hostedemail.com/api/oma_file/get?type=snapshot&id=example.com%3Adomain%3A2010-11&user=marlin%40example.adm&token=07202b1a7af002692018b60a22d82afa"
}
```

stats_summary

Description

The **stats_summary** method displays summary statistics for a user, domain, or company.

Syntax

```
{
  <credentials object>
  "type": company | domain | user,
  "object": <name of the company, domain or user>,
  "by": day | week | month
}
```

Request fields for stats_summary

The following fields can be used in the **stats_summary** method:

Field name	Obligation	Definition/Value
by	Optional	The interval that you want displayed in the response for the statistics summary. Allowed values are day , week , and month . <ul style="list-style-type: none"> ▪ day—Display information for each of the most recent 30 days. ▪ week—Display information for each of the most recent 52 weeks; each week begins on a Monday. ▪ month—Display information for the most recent 48 months.
object	Optional	The name of the company, domain, or user for which you want to view statistics.
type	Optional	The type of object. Allowed values are company , domain , or user .

Response fields for stats_summary

The following fields may be returned in response to the **stats_summary** method:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .
summary	Returned if success = true	Lists the statistics for the periods specified in the by field in the request: day , week , or month . For more information, see the " Summary fields " table below.

Summary fields

The following fields may be returned within the **summary** array.

Field name	Obligation	Description/Value
deleted_users	Returned if success = true	Lists information about deleted accounts. <ul style="list-style-type: none"> ▪ storage_items_stored—The aggregate number of messages held in these deleted accounts. ▪ storage_current_size—The aggregate size (in bytes) of messages held in these deleted accounts.
logins	Returned if success = true	Lists information about logins during the specified period. <ul style="list-style-type: none"> ▪ imap4—The number of logins via IMAP4 protocol during the period. ▪ pop3—The number of logins via POP3 during the period. ▪ webmail—The number of logins via Webmail during the period.
messages	Returned if success = true	Lists information about messages sent and received during the specified period. <ul style="list-style-type: none"> ▪ autorespond_count—The number of auto-responses sent in the period. ▪ denied—The number of inbound

Field name	Obligation	Description/Value
		<p>messages rejected in the period.</p> <ul style="list-style-type: none"> ▪ forward_count—The number of messages forwarded in the period. ▪ in_ham—The number of messages received in the period that were not spam. ▪ in_size—The number of bytes in messages received in the period, (not including spam). ▪ in_spam—The number of spam messages received in the period. ▪ out_msg_count—The number of messages sent in the period. ▪ out_rcpt_count—The number of recipients to whom messages were sent in the period. ▪ out_size—The number of bytes in messages sent in the period.
services	Returned if success = true	<p>Specifies the number of users for each service during the specified period.</p> <ul style="list-style-type: none"> ▪ smtprelay—The number of users with this service enabled in the period. ▪ smtpin—The number of users with this service enabled in the period. ▪ imap4—The number of users with this service enabled in the period. ▪ pop3—The number of users with this service enabled in the period. ▪ webmail—The number of users with this service enabled in the period.
storage	Returned if success = true	<p>Displays information about messages stored.</p> <ul style="list-style-type: none"> ▪ items_stored—The number of messages stored. ▪ current_size—The total size (in bytes) of stored messages.
users	Returned if success = true	<p>Displays the number of users for each account type during the specified period.</p> <ul style="list-style-type: none"> ▪ filter—The number of filter only users. ▪ forward—The number of forward only users. ▪ deleted—The number of recoverable (soft-deleted) users.

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ mailbox—The number of regular mailboxes. ▪ alias—The number of aliases.

Examples for stats_summary

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdfs1sh"
  },
  "object": "example.com",
  "type": "domain",
  "by": "day"
}
```

Response

```
{
  "success": true,
  "summary": {
    "20111219": {
      "messages": {
        "autorespond_count": 0,
        "in_size": 0,
        "out_msg_count": 0,
        "in_spam": 0,
        "out_size": 0,
        "forward_count": 0,
        "in_ham": 0,
        "out_rcpt_count": 0,
        "denied": 0
      },
      "services": {
```

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```
    "smtprelay": 10,  
    "smtpin": 10,  
    "imap4": 10,  
    "pop3": 10,  
    "webmail": 10  
  },  
  "deleted_users": {  
    "storage_items_stored": 0,  
    "storage_current_size": 0  
  },  
  "users": {  
    "filter": 0,  
    "forward": 2,  
    "deleted": 1,  
    "mailbox": 7,  
    "alias": 1  
  },  
  "logins": {  
    "imap4": 0,  
    "pop3": 0,  
    "webmail": 0  
  },  
  "storage": {  
    "items_stored": 6,  
    "current_size": 141653  
  }  
},  
"20111228": {  
  "messages": {  
    "autorespond_count": 0,  
    "in_size": 0,  
    "out_msg_count": 0,  
    "in_spam": 0,  
    "out_size": 0,  
    "forward_count": 0,  
  }  
}
```

```
    "in_ham": 0,
    "out_rcpt_count": 0,
    "denied": 0
  },
  "services": {
    "smtprelay": 10,
    "smtpin": 10,
    "imap4": 10,
    "pop3": 10,
    "webmail": 10
  },
  "deleted_users": {
    "storage_items_stored": 0,
    "storage_current_size": 0
  },
  "users": {
    "filter": 0,
    "forward": 2,
    "deleted": 1,
    "mailbox": 7,
    "alias": 1
  },
  "logins": {
    "imap4": 0,
    "pop3": 0,
    "webmail": 0
  },
  "storage": {
    "items_stored": 6,
    "current_size": 141653
  }
},
"20120106": {
  "messages": {
    "autorespond_count": 0,
```

OpenSRS Mail API

```
"in_size": 0,
"out_msg_count": 0,
"in_spam": 0,
"out_size": 0,
"forward_count": 0,
"in_ham": 0,
"out_rcpt_count": 0,
"denied": 0
},
"services": {
  "smtprelay": 11,
  "smtpin": 11,
  "imap4": 11,
  "pop3": 11,
  "webmail": 11
},
"deleted_users": {
  "storage_items_stored": 0,
  "storage_current_size": 0
},
"users": {
  "filter": 0,
  "forward": 2,
  "deleted": 1,
  "mailbox": 8,
  "alias": 0
},
"logins": {
  "imap4": 0,
  "pop3": 0,
  "webmail": 0
},
"storage": {
  "items_stored": 7,
  "current_size": 142017
```

```
    }  
  },  
  "20111215": {  
    "messages": {  
      "autorespond_count": 0,  
      "in_size": 0,  
      "out_msg_count": 0,  
      "in_spam": 0,  
      "out_size": 0,  
      "forward_count": 0,  
      "in_ham": 0,  
      "out_rcpt_count": 0,  
      "denied": 0  
    },  
    "services": {  
      "smtprelay": 10,  
      "smtpin": 10,  
      "imap4": 10,  
      "pop3": 10,  
      "webmail": 10  
    },  
    "deleted_users": {  
      "storage_items_stored": 0,  
      "storage_current_size": 0  
    },  
    "users": {  
      "filter": 0,  
      "forward": 2,  
      "deleted": 1,  
      "mailbox": 7,  
      "alias": 1  
    },  
    "logins": {  
      "imap4": 0,  
      "pop3": 0,  

```

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```
    "webmail": 0
  },
  "storage": {
    "items_stored": 6,
    "current_size": 141653
  }
},    "20111221": {
  "messages": {
    "autorespond_count": 0,
    "in_size": 0,
    "out_msg_count": 0,
    "in_spam": 0,
    "out_size": 0,
    "forward_count": 0,
    "in_ham": 0,
    "out_rcpt_count": 0,
    "denied": 0
  },
  "services": {
    "smtprelay": 10,
    "smtpin": 10,
    "imap4": 10,
    "pop3": 10,
    "webmail": 10
  },
  "deleted_users": {
    "storage_items_stored": 0,
    "storage_current_size": 0
  },
  "users": {
    "filter": 0,
    "forward": 2,
    "deleted": 1,
    "mailbox": 7,
    "alias": 1
```

```
},
"logins": {
  "imap4": 0,
  "pop3": 0,
  "webmail": 0
},
"storage": {
  "items_stored": 6,
  "current_size": 141653
}
},
...
"20111229": {
  "messages": {
    "autorespond_count": 0,
    "in_size": 0,
    "out_msg_count": 0,
    "in_spam": 0,
    "out_size": 0,
    "forward_count": 0,
    "in_ham": 0,
    "out_rcpt_count": 0,
    "denied": 0
  },
  "services": {
    "smtprelay": 10,
    "smtpin": 10,
    "imap4": 10,
    "pop3": 10,
    "webmail": 10
  },
  "deleted_users": {
    "storage_items_stored": 0,
    "storage_current_size": 0
  },
}
```

OpenSRS Mail API

```
"users": {
  "filter": 0,
  "forward": 2,
  "deleted": 1,
  "mailbox": 7,
  "alias": 1
},
"logins": {
  "imap4": 0,
  "pop3": 0,
  "webmail": 0
},
"storage": {
  "items_stored": 6,
  "current_size": 141653
}
}
}
```

Example 2

Displays daily summary statistics for user joe_user@example.com.

Request

```
{
  "credentials": {
    "user": "company_admin@example.adm",
    "password": "sw0rdf1sh"
  },
  "object": "joe_user@example.com",
  "type": "user",
  "by": "day"
}
```

Response

```

{
  "success":true,
  "summary":{
    "20120111":{
      "messages":{
        "in_size":"","
        "out_msg_count":"","
        "in_spam":"","
        "autorespond_count":"","
        "out_size":"","
        "forward_count":"","
        "in_ham":"","
        "out_rcpt_count":"","
        "denied":""},
      "services":{
        "smtprelay":"enabled",
        "smtpin":"enabled",
        "imap4":"enabled",
        "pop3":"enabled",
        "webmail":"enabled"},
      "delivery":{
        "autoresponder":"1",
        "fonly":"0"},
      "forward":"z@b.com",
      "createtime":"Thu Jul 21 17:46:22 2011 UTC",
      "workgroup":"staff",
      "account_type":"mailbox",
      "logins":{
        "last_imap4":"Fri Dec 9 01:16:12 2011 UTC",
        "imap4":"","
        "auth_token":"","
        "webmail":"","
        "last_webmail":"Fri Jan 6 18:00:33 2012 UTC",
        "auth_password":""},

```

OpenSRS Mail API

```
"pop3":"","  
"last_pop3":"Fri Dec 9 01:31:09 2011 UTC",  
"last_smtprelay":"Thu Jun 9 16:50:46 2011 UTC",  
"last_smtpin":"Mon Nov 21 19:54:05 2011 UTC"},  
"storage":{  
  "items_stored":"31",  
  "allowed_size":"6442450944",  
  "current_size":"733839"},  
"deletetime":""  
},  
...  
}  
}
```

Migration methods

This section contains the following methods:

- `migration_add`—Copies email from multiple remote accounts to multiple local accounts.
- `migration_jobs`—Retrieve a list of current and historical migration jobs submitted by the requester.
- `migration_status`—Provides detailed information about the progress and results of a migration job
- `migration_trace`—Retrieves detailed information about a single user in a current or historical migration job.

migration_add

Description

The **migration_add** job creates a bulk migration job that copies email from multiple remote accounts to multiple local accounts.

Syntax

```
{
  <credentials object>,
  "job": <job id>,
  "users":
    [
      {
        "local": <local email address user migrates to>,
        "remote": <remote email address user migrates from>,
        "server": <remote server:remote port>,
        "method": imap4 | imap4s | pop3 | pop3s,
        "skip": [a list of folders on the remote server],
        "translate": {
          <remote server folder: local server folder>
          ...},
        },
      ...
    ]
}
```

Request fields for migration_add

The following fields can be used in the **migration_add** method:

Field name	Obligation	Definition/Value
job	Optional	A job ID. This ID can be used in other migration requests. If an ID is not supplied in the request, it will be created and returned in the response.
users	Required	Defines the source and destination of the email that you want to migrate. Allowed values are: <ul style="list-style-type: none"> ▪ local—Specifies the email account to which mail will be copied; must be an existing account

Field name	Obligation	Definition/Value
		<ul style="list-style-type: none"> ▪ method—Specifies the protocol that will be used to transfer email: imap4 or pop3, with or without SSL. Allowed values are imap4, imap4s, pop3, pop3s. Note: For pop3 migrations, only email in the remote address' INBOX will be transferred (for imap4 migrations, mail in all remote folders will be copied to local folders with the same name). ▪ remote—Specifies the email account from which mail will be copied. ▪ server—Specifies the remote email server address including the port, in the format <i>address:port</i>. ▪ skip—A list of folder names on the remote server to ignore. Sub folders should be separated with the IMAP server's path delimiter. Note: This value is optional and is valid for imap migrations only. ▪ translate— A hash giving a mapping of remote folder names to local folder names. Messages on the remote server, in the remote folders will be copied to the local account to folders with the local name. Sub folders should be separated with the IMAP server's path delimiter. For local folders, the path separator is the dot character. For example, to specify the folder /Sales/2009/June use ".Sales.2009.June" Note: This value is optional, and is valid for imap migrations only.

Response fields for migration_add

The following fields may be returned when the migration_add method is submitted:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.

Field name	Obligation	Description/Value
job	Returned if success = true	A job ID. This ID can be used in other migration requests.
success	Always returned	Indicates whether the request was successful or not. Allowed values are true and false .

Examples for migration_add

Creates a job to migrate account joseph.user@bigmail.com to local account joe_user@example.com, skipping the folders Trash and Spam, and moving messages from the remote folder Sent to the local folder Sent Items

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdfs1sh"
  },
  "users": [
    {
      "local": "joe_user@example.com",
      "remote": "joseph_user@bigmail.com",
      "password": "abc123",
      "server": "mail.bigmail.com:993",
      "method": "imap4s",
      "skip": [
        "Trash",
        "Spam"
      ],
      "translate": {
        "Sent": "Sent Items"
      }
    }
  ]
}
```

Response

```
{  
  "success": true  
  "job": "1326229437638"  
}
```

migration_jobs

The **migration_jobs** method retrieves a list of current and historical migration jobs submitted by the requester.

Syntax

```
{
    <credentials object>
}
```

Response fields for migration_jobs

The following fields may be returned when the **migration_jobs** method is submitted:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
jobs	Returned if success = true	Information about the jobs for the specified user. Allowed values are: <ul style="list-style-type: none"> ▪ date—The date that the job was submitted, in UNIX Epoch time. ▪ job—The ID of the job.
success	Always returned	Indicates whether the requested change was successful or not. Allowed values are true and false .

Examples for migration_jobs

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  }
}
```

Response

```
{
  "success": true,
  "jobs": [
    {
      "date": 1326229443,
      "job": "1326229437638"
    },
  ]
}
```

migration_status

The **migration_status** method provides detailed information about the progress and results of a migration job.

Syntax

```
{
  <credentials object>
  "job": <job id>
}
```

Request fields for migration_status

The following fields can be used in the **migration_status** method:

Field name	Obligation	Definition/Value
job	Required	The ID of the job you are querying. The ID is returned in the migration_add response.

Response fields for migration_status

The following fields may be returned when the **migration_status** method is submitted:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
rate	Returned if success = true	The aggregate throughput rate for the entire migration job (for all users).
success	Always returned	Indicates whether the requested change was successful or not. Allowed values are true and false .
users	Returned if success = true	Information about the migration job. Allowed values are: <ul style="list-style-type: none"> ▪ data—Information about the migration, including the following: <ul style="list-style-type: none"> ▪ config—Details about the user's migration. Includes the following information:

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ method—The method used (imap4, imap4s, pop3, or pop3s) ▪ server—The server from which the job is pulling data. ▪ username—The remote username used to log in. ▪ folders—Details about each of the folders that are being migrated. Includes the following information: <ul style="list-style-type: none"> ▪ bytes—Number of bytes migrated. ▪ delim—The hierarchy delimiter that the remote imap server uses to separate nested folder names. Our imap server uses ".", the example uses "/" - so a folder named "INBOX/Sent" on the remote end would end up as "INBOX.Sent" on our end after migration. ▪ fail_count—Number of messages that failed to migrate and will not be retried. ▪ migrate_count—Number of messages migrated. ▪ next_uid—Response from the remote imap server as to what the next unique identifier (uid) will be. ▪ remote_count—Number of messages on the remote imap/pop server. ▪ retry1count—Number of messages that will have their first retry attempt (after failing on the first attempt). ▪ retry2count—Number of

Field name	Obligation	Description/Value
		<p>messages that will have their second retry attempt (after failing on the first and second attempts). If they fail again, they go into fail_count.</p> <ul style="list-style-type: none"> ▪ skip_count—Number of messages that will not be migrated either because they were migrated in a previous migration or because the request said to skip the folder. ▪ status—Current status of all folders in aggregate. Includes the following information: <ul style="list-style-type: none"> ▪ bytes—Total number of bytes migrated. ▪ critical_errors—Total number of critical errors encountered. If there are too many critical errors, the migration is aborted for the user. ▪ fail_count—Number of messages that failed to migrate. ▪ foldercount—Number of folders present on the remote server. ▪ migrate_count—Total number of messages migrated. ▪ remote_count—Number of messages present on the remote server. ▪ skip_count—Total number of messages skipped. ▪ local—The user to whom mail is being migrated. ▪ state—The progress of the migration. Allowed values are: <ul style="list-style-type: none"> ▪ active—Phase 2 in process, mailbox being actively migrated.

Field name	Obligation	Description/Value
		<ul style="list-style-type: none"> ▪ complete—Phase 2 complete, mailbox migrated. ▪ error—Errors in phase1 or phase2, migration aborted. ▪ pending—Migration accepted and enqueued; hasn't started processing yet. ▪ validated—Phase 1 complete, waiting for phase 2 (full migration). ▪ validating—Phase 1 in progress - login credentials being tested, remote message counts being gathered.

Examples for migration_status

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "job": "1326229437638"
}
```

Response

```
{
  "rate": "613.499 KiB/s",
  "success": true,
  "users": [
    {
      "data": {
        "folders": {
          "INBOX": {
            "next_uid": "5",
            "bytes": 123133,
            "migrate_count": 5,

```

OpenSRS Mail API

```
    "fail_count": 0,  
    "retry1count": 0,  
    "skip_count": 0,  
    "remote_count": "5",  
    "retry2count": 0,  
    "delim": "."  
  },  
  "Trash": {  
    "next_uid": "1",  
    "skip_count": "1",  
    "delim": ".",  
    "remote_count": "1"  
  },  
  "Drafts": {  
    "next_uid": "0",  
    "delim": ".",  
    "remote_count": "0"  
  },  
  "Spam": {  
    "next_uid": "1",  
    "skip_count": "1",  
    "delim": ".",  
    "remote_count": "1"  
  },  
  "Sent Items": {  
    "next_uid": "0",  
    "delim": ".",  
    "remote_count": "0"  
  }  
},  
"status": {  
  "bytes": 123133,  
  "fail_count": 0,  
  "migrate_count": 5,  
  "skip_count": 2,
```

```
    "critical_errors": "0",
    "foldercount": 5,
    "remote_count": "7"
  },
  "config": {
    "server": "mail.bigmail.com:993",
    "method": "imap4s",
    "remote": "joseph.user@bigmail.com"
  }
},
"local": "joe_user@example.com",
"state": "complete"
}
]
}
```

migration_trace

The **migration_trace** method retrieves detailed information about a single user in a current or historical migration job.

Migration trace files are not available until the migration has started.

Syntax

```
{
  <credentials object>
  "job":<job id>,
  "user":<username>
}
```

Request fields for migration_trace

The following fields can be used in the **migration_trace** method:

Field name	Obligation	Definition/Value
job	Required	The ID of the job you are querying. The ID is returned in the migration_add response.
user	Required	The username of the person whose migration job is being retrieved.

Response fields for migration_trace

The following fields may be returned when the **migration_trace** method is submitted:

Field name	Obligation	Description/Value
error	Returned if success = false	A text string that explains the error.
error_number	Returned if success = false	A number that represents the error.
success	Always returned	Indicates whether the requested change was successful or not. Allowed values are true and false .
trace	Returned if success = true	The URL where the trace file can be downloaded. The trace file provides detailed information about the migration job.

Examples for migration_trace

Request

```
{
  "credentials": {
    "user": "domain_admin@example.com",
    "password": "sw0rdf1sh"
  },
  "user": "joe_user@example.com",
  "job": "1326229437638"
}
```

Response

```
{
  "success": true,
  "trace": "https://admin.a.hostedemail.com/api/oma_file/get?type=migrationtrace&id=joe_user%40democo.com%3A1326229437638&user=domain_admin%40democo.com&token=44d904b456a2ffe0c0e77653e0ac44e9"
}
```