Oracle Responsys

REST API Developer's Guide

REST API v1.3

E65150-18

IMPORTANT: The v1.3 REST APIs documented in this guide are intended for use with Oracle Responsys 18B and later. There were no changes to the REST API for Oracle Responsys 18C.

If you need to obtain documentation for the v1.1 REST APIs, which **are** still compatible with Oracle Responsys 18C, it is available at the following location: https://community.oracle.com/docs/DOC-1010946

For more details about the differences between the v1.3 and v1.1 REST APIs, please refer to the "Changes and Enhancements" and "Migration Notes" sections of this document.

August 2018

Documentation for developers who use the Oracle Responsys REST API to access the data, content, and campaign management features of Oracle Responsys

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E65150-18

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Contents

Changes and Enhancements in Recent Releases

This section summarizes Responsys REST API changes and enhancements in recent releases.

Changes and Enhancements in 18C

There were no additions or changes to the standard REST API in Oracle Responsys 18C.

Support for real-time custom events

Real-time custom events are a special type of custom event that override how Responsys handles enactments when the Enactment Batching feature is enabled. If your account has Enactment Batching enabled and you need to send near-real-time messages, then we highly recommend having your account enabled for the Real-time Events feature. This feature is intended for Responsys customers who use the Mobile App channel. Part of this feature enables you to create real-time custom events. When a real-time custom event is triggered, Responsys handles the enactments in near real-time instead of batching them. This ensures that your customers receive the campaign messages (including Email, SMS, Push, and In-app) without the delay imposed by enactment batching. To have this feature enabled for your account, contact your Oracle Customer Success Manager. For more information, see the Defining Custom Event Types topic in the *Oracle Responsys Help Center*.

Documentation corrections and enhancements

The request payload example shown for Trigger Push Message incorrectly omitted the `deviceID` and `apiKey` properties when `listType` is `PROFILE`. The properties must be present for each recipient, but the value may be `null`. The topic has also been enhanced with additional information regarding the request and response payloads. See “Trigger Push Messages” on page 77.

Changes and Enhancements in 18B

REMINDER: REST API Version 1 will be deprecated September 2018

IMPORTANT NOTICE: Oracle has announced the deprecation of the version 1 of the Oracle Responsys REST API. To avoid problems with your client applications, you must upgrade your client applications to use version 1.1 or later (preferably 1.3, which is the latest version). More details are available in the Oracle Responsys REST API Upgrade Guide on Topliners.

Updated throttling limits

Oracle Responsys has implemented throttling limit changes on its APIs. These changes included imposing throttling limits on APIs that did not have limits before.

Throttling limits now apply for following APIs:

- `retrieveListMembers`
- `login`
- Content Library APIs

To obtain the current list of throttling limits for your account, use the **Get Throttling Limits** API. For more details, see "Get Throttling Limits " on page 14.

New standard REST API endpoints

- **Get All Campaigns** now supports SMS campaigns. Use the type=sms parameter to get all SMS campaigns in an Oracle Responsys account. For more details, see "Get all SMS campaigns" on page 62.
- **Get All Custom Events** is a new API that enables you to get all of the custom event names for your account. This helps you obtain the names for other API requests that require a custom event name. For more details, see "Get all custom events for an account" on page 81.
- If your Oracle Responsys account has Targeting by Organization enabled, you can use the new API, **Add or Update RIID-to-Audience Scope Code Mapping Data**, to update the RIID-to-organizational scope mapping for recipients in your Profile List. Previously, you could only update this mapping table by using a Connect job. For more details, see "Add or Update RIID-to-Audience Scope Code Mapping Data for Profile List members" on page 39.

Changes and Enhancements in 18A

New naming convention for Responsys Quarterly Product Updates

Beginning in 2018, Oracle Responsys is adjusting our terminology for quarterly product updates. Releases, which will now be known as "Updates", will use the calendar quarter and the year to refer to the quarterly update.

For example, the first quarterly update in 2018 will be referred to as: Oracle Responsys 18A

- The number "18" represents the calendar year. "A", "B", "C", or "D" represents the first, second, third, or fourth quarterly update in that calendar year.
- This new naming convention is to ensure clarity and consistency across all Oracle Cloud CX applications.

In addition, readiness material is published on the cloud.oracle.com site, providing a preview of new and changed functionality available in our latest updates.

NOTE: All pre-existing documentation will continue to use the former 6.x numbering system and nomenclature, but all future documentation will include the new nomenclature.

REST API Version 1 will be deprecated September 2018

IMPORTANT NOTICE: Oracle has announced the deprecation of the version 1 of the Oracle Responsys REST API. To avoid problems with your client applications, you must upgrade your client applications to use version 1.1 or later (preferably 1.3, which is the latest version). More details are available in the Oracle Responsys REST API Upgrade Guide on Topliners.

New standard REST API endpoints

The REST API now includes the following new APIs:

- Get Throttling Limits enables you to get the throttling limits for key interfaces for your Responsys account. For more details, see "Get Throttling Limits " on page 14.
- Get Supplemental Tables is a new API for retrieving supplemental table data. This helps you use the Supplemental Table Members APIs to retrieve or merge data into a supplemental table. For more details, see "Retrieve all supplemental tables" on page 42.

Changes and Enhancements in 6.33

- The **Get All Campaigns** API now supports obtaining a list of Push and In-App Message campaigns in addition to Email Message Designer (EMD) campaigns. To use the Get All Campaigns API, your account must be enabled for Email Message Designer (EMD) for getting Email campaigns or Push for getting Push and In-app Message campaigns. Otherwise using the call will result in an error (API_DISABLED_FOR_USER with HTTPS status code 401 Unauthorized). For more details, see "Get All Campaigns" on page 57.
- **Merge Trigger Email with Attachments** is a new API available as a Controlled Availability feature. This API works similarly to the Merge Trigger Email API, with additional support for sending pre-generated, personalized attachments for each recipient in the request payload. Responsys will accept multiple attachment files as Base64-encoded text in the API payload. To have this API enabled for your account, contact your Customer Success Manager (CSM). For more details, see "Merge members into a profile list and trigger email messages with attachments" on page 67.

Document enhancements of note:

- Added information about how login IP enforcement control affects API user authentication ("Login IP enforcement access control" on page 9).

- Updated the “Handling Errors” section to remove erroneous messages, to add a new error message, and with information about the possible recipient fail errors when an API request is successfully submitted (“Individual Recipient Failure Errors” on page 127).
- Added information about what to expect when there are system outages and where to view system status (“Handling System Outages” on page 129).

Overview

This document provides a guide for software developers to use the Responsys REST API.

About this guide

This guide is organized into three main parts:

- **Getting Started information** – the sections "Changes and Enhancements in Recent Releases" on page 1 through "Login IP enforcement access control" on page 9 contain the release-specific information and information about how the API works.
- **API endpoint information and request/response examples** – the sections "Authenticating" on page 10 through "Managing Images of Content Library Documents" on page 112 provide information about using the various REST API calls. We also recommend using the REST API HTML document on docs.oracle.com (https://docs.oracle.com/cloud/latest/marketingcs_gs/OMCED/index.html), where you can view the full request and response parameter descriptions for the API endpoints.

  NOTE: Use the REST HTML document mentioned above if you choose to copy the payload examples and modify them to create your own samples for testing. Copying from this PDF document may result in your sample containing hidden characters or text from the footers (for example, "Page 2") if you copy text across multiple pages.
- **Reference information** – the sections "Responsys API Data Types" on page 116 through "Migration Notes" on page 130 provide information about the following topics:
  - Data types in the API
  - Error messages returned
  - Merge rule parameters used in the APIs used for merging data
  - Migration notes comparing the changes between API versions

Conventions used in this document

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates terms defined in the text or emphasis.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates URLs, code, text that appears on the screen, or text that you enter.
`{endpoint variable}`	Indicates a variable in the REST endpoint; for example `{campaignName}` should be substituted with the name of the campaign as defined in Responsys.
`<code variable>`	Indicates a variable in the header, request, or response.

About the Oracle Responsys REST API

This release supports several resources, including profile lists, profile extensions, supplemental data, campaign schedules, events, content library folders, content library documents, content library media files, and content library document images.

Responsys REST APIs are JSON-aware for accepting or returning a payload. These REST APIs also comply with the HATEAOS principle such that a client interacts with a network application entirely through hypermedia provided dynamically by application servers. Therefore, a REST client needs no prior knowledge about how to interact with any particular application or server beyond a generic understanding of hypermedia. As a result, the response payloads returned by most of the Responsys REST interfaces contain additional information (specifically "links") to allow the client application to transition through application states. More information about HATEAOS is available at https://en.wikipedia.org/wiki/HATEOAS.

Responsys SOAP and REST API are two separate sets of APIs, but they use the same underlying object model. To learn more about REST vs. SOAP, please visit http://www.slideshare.net/Muratakal/rest-vs-soap-15854355

Responsys APIs support ***only*** UTF-8 character encoding. Special characters in request payloads must be UTF-8 encoded. If that is not the case, then an error response is returned.

Processing Responsys REST API requests

The sequence of steps required for processing the Responsys REST API requests is:

1. Client issues an HTTP POST request to authenticate via the login endpoint.

   Depending on the system that hosts the Responsys account, the end points could be one of the following:
   `login2.responsys.net` (for interact2)
   `login5.responsys.net` (for interact5)
   `login.rsys8.net` (for interact8)
   `login.rsys9.net` (for interact9, when available).

2. Responsys returns a JSON response with a token and an API endpoint URI to be used for subsequent API requests.

3. Client issues desired HTTP POST to the API endpoint along with the token in the HTTP HEADER.

   NOTE: Design your client API code to create the API endpoint from the URI returned in step 2 ***and*** the specific path of the desired API. For example, if the URI from step 2 were `<ENDPOINT_URI>`, then the API endpoint to get all profile lists for an account would be `https://<ENDPOINT_URI>/rest/api/v1.3/lists`.

4. If the API request is successfully processed, Responsys returns a specific JSON response according to the specification of the processed API. Otherwise, Responsys returns an error payload for interpretation.

5. Depending on the success or failure of the previous API request, take the next action.

6. Repeat step 3-5 as needed.

7. If needed, refresh the token to avoid having to re-authenticate.
   By default, tokens last for a fixed period of time (two hours).

API Call Processing

Web Services API calls are processed synchronously. For most calls, you should receive a response shortly after Responsys finishes processing the call. However, some of the API calls trigger system actions that are performed after the system sends the positive response back to the API caller. If those actions fail for some reason, you may have received a positive response for the API call, but the failure for subsequent actions would be recorded elsewhere.

Examples:

- API calls that trigger messages requiring personalization. Responsys processes personalization asynchronously after the API call has returned a positive response. If the personalization fails, then you may receive a positive API response, even though the message was not sent to the recipient.

- Trigger custom event API calls. These calls do not actually send the email or mobile messages. The triggerCustomEvent API call merely sends a group of recipients (that is, enactments) to a Responsys Program. The Program subsequently uses its own logic to determine if those enactments will be used by campaigns within that Program. The campaigns ultimately send the email or mobile messages.

How Enactment Batching Affects Processing

Oracle Responsys enables cross-channel orchestrations with Email, SMS, and Push. **If you plan to use the trigger custom event API call with cross-channel marketing programs, please review this section first.**

Responsys requires the Enactment Batching feature to be enabled when using trigger custom event with Mobile App campaigns in Program. Otherwise, the Mobile App campaign events in the program will not be processed. However, there are some tradeoffs to consider before enabling the feature. When an account has Enactment Batching enabled, triggering a custom event cannot be used to perform near-real-time processing for ***any*** campaign type. Responsys will batch enactments together into a single enactment group before entering the enactments into a program. This results in ***at least*** a 10-minute delay between custom event triggering and entry into a Program.

If your account has Enactment Batching enabled and you need to send near-real-time messages, such as event reactions, then we highly recommend having your account enabled for the Real-time Events feature. This feature is intended for Responsys customers who use the Mobile App channel. Part of this feature enables you to create real-time custom events. Real-time custom events are a special type of custom event that override how Responsys handles enactments when the Enactment Batching feature is enabled. When a real-time custom event is triggered, Responsys handles the enactments in near real-time instead of batching them. This ensures that your customers receive the campaign messages (including Email, SMS, Push, and In-app) without the delay imposed by enactment batching. To have this feature enabled for your account, contact your Oracle Customer Success Manager. For more information, see the Defining Custom Event Types topic in the *Oracle Responsys Help Center*.

Alternatively, you can send near-real-time messages by using merge-trigger API calls (or, for Mobile Push, perform a merge call and then follow it by a trigger push messages call). You can then enter the recipients into a Program orchestration, using schedule filter or other methods. Please contact your Customer Success Manager (CSM) for additional assistance or information.

Access Controls

This section presents Responsys capabilities for controlling user access to APIs.

Organizational access control

When Organizational Access Control is enabled for a Responsys account, it will be enforced for all users in that account, including API users. This means that the organizational units to which the user is assigned will limit the API user's access to Responsys objects. Similarly, objects created through the API will inherit organizational membership of the API user. For the API user to access all objects within the account, that API user should be assigned to the Root node in the organizational hierarchy.

Organizational Access Control is configured through "Account | Manage Users | Organization Assignment". Please contact your Responsys account administrator to set up access control.

Functional access control

API user's access level to a specific object is determined by functional roles that are assigned to that user. Functional Access Control and Organizational Access Control work together. Organizational Access Control determines whether the API user has access to a particular object, and Functional Access Control determines what operations the user can perform with that object. For example, a user may have access to the profile extension object but cannot add or update data in it.

Best practice recommendation is to use a dedicated user for API operations. API user should be assigned one or more functional roles (Campaign Web Services Manager, Folder Web Services Manager, Table Web Services Manager, Content Web Services Manager, or List Web Services Manager) to ensure adequate access level to the appropriate set of objects.

Functional Access Control is configured through "Account | Manage Users | Role Assignment". Please contact your Responsys account administrator to setup access controls.

Login IP enforcement access control

Oracle Responsys enables customers to limit login access based on their defined range(s) of authorized login IP addresses. The system immediately denies any login attempts initiated outside of your authorized ranges of login IP addresses. These restrictions apply to the API user as well as to users logging in to the Responsys user interface.

To view the IP access list settings, a Responsys account administrator can log in and to go "Account | View login IP restrictions".

Authenticating

The very first REST API request must be to authenticate to a specific Responsys account using a username and a password or certificates.

Upon successful authentication, a token and an endpoint are returned in the response. You must use these **authToken** and **endPoint** values for any subsequent REST API request.

Transport Layer Security Support

Ensure that your client systems use a Transport Layer Security (TLS) version supported by the Oracle Responsys pod for your account. The following list shows the versions supported by each Oracle Responsys pod.

- Interact2: TLS 1.0, 1.1, or 1.2
- Interact5: TLS 1.0, 1.1, or 1.2
- Interact8: TLS 1.1 or 1.2
- Interact9: TLS 1.1 or 1.2

Login with username and password

IMPORTANT NOTE: For security reasons you must pass username and password as parameters in the POST request body only with the correct content type ('Content-Type': 'application/x-www-form-urlencoded'). Therefore, you must NOT use the URL string for passing in the authentication credentials.

Service URL:

```
/rest/api/v1.3/auth/token
```

Request Method:

```
POST
```

Request Header

```
Content-Type: application/x-www-form-urlencoded
```

Request Parameters

Send in message body, x-www-form-urlencoded:

```
user_name=<USER_NAME>
password=<PASSWORD>
auth_type=password
```

***Sample Login Request*:**

URL:

```
/rest/api/v1.3/auth/token
```

Sample Request Body:

```
user_name=<USER_NAME>&password=<PASSWORD>&auth_type=password
```

***Response*:**

```
{
 "authToken" : "<AUTH_TOKEN>",
 "issuedAt" :  < TIMESTAMP > ,
 "endPoint" : "<ENDPOINT_URI>"
}
```

Login with username and certificates

Instead of using a password, a server and a client certificate can be used for authenticating with a username. Logging in with certificates is based on the use of a digital certificate in accordance with the X.509 standard for public key infrastructure (PKI).

Before you can use this type of login in a client application, the Oracle Responsys account administrator must log in to the Oracle Responsys user interface and navigate to the admin console for managing users. From the console, the admin must enable the API user to use certificates, upload a digital certificate (client user public key), and download the Responsys API server digital certificate (server public key).

Performing this type of authentication requires two REST API calls, as described in the steps below. To see this illustrated in an example script, refer to "Appendix A: Authentication with Certificates" on page 132.

1. Authenticate server by sending the following REST request.

IMPORTANT NOTE: For security reasons you must pass username and password as parameters in the POST request body only with the correct content type ('Content-Type': 'application/x-www-form-urlencoded'). Therefore, you must NOT use the URL string for passing in the authentication credentials.

Service URL:

```
/rest/api/v1.3/auth/token
```

Request Method:

```
POST
```

Request Header

```
Content-Type: application/x-www-form-urlencoded
```

Request Parameters

Send in the Request Body in x-www-form-urlencoded format:

```
user_name=<USER_NAME>
auth_type=server
client_challenge=<CLIENT_CHALLENGE_VALUE>
```

For REST, the `client_challenge` must be a plain random number and/or text string of your choice, which you must then convert to byte and then Base64 encode.

2. You should receive the following response from the server. Decrypt (using the RSA algorithm) the encrypted `clientChallenge` using server certificate's public key (which you should have downloaded and stored on your system). If they match, proceed to the next step. If they don't match, please do not proceed with steps 3 and 4 in this section. Instead, contact Oracle Support.

Response:

```
{
 "authToken" : "<TEMP_AUTH_TOKEN>",
 "serverChallenge" : "<BASE_64_ENCODED_SERVER_CHALLENGE>",
 "clientChallenge" : "<ENCRYPTED_AND_THEN_BASE_64_ENCODED_CLIENT_CHALLENGE>"
}
```

3. Log in with username and certificate using the following REST request (do the encryption using the public key from the Responsys server certificate):

Service URL:

```
/rest/api/v1.3/auth/token
```

Request Method:

```
POST
```

Request Header

```
Authorization=<TEMP_AUTH_TOKEN>   (this is obtained from the response in step 2
above)
Content-Type: application/x-www-form-urlencoded
```

Request Parameters:

```
user_name=<USER_NAME>
auth_type=client
server_challenge=<SERVER_CHALLENGE_ENCRYPTED_USING_RESPONSYS_PUBLIC_KEY>
```

4. You should receive the following response from the server. You can use this authentication token and endpoint until the token expires (2 hours from issue time) or until you refresh the token and receive a new one, as described in the next section.

Response:

```
{
 "authToken" : "<AUTH_TOKEN>",
 "issuedAt" :  <TIMESTAMP>,
 "endPoint" : "<ENDPOINT_URI>"
}
```

Refresh token

In the REST API, the authorization token is stateless and it always expires after **two hours**. However, you can refresh the existing token before it expires. If you refresh the token, the system generates a ***new*** token from the existing valid one, so that you will not need to re-authenticate. The same token used previously is ***not*** returned.

Service URL:

```
/rest/api/v1.3/auth/token
```

Request Method:

```
POST
```

Request Parameters:

```
auth_type=token
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Response:

```
{
 "authToken" : "<NEW_AUTH_TOKEN>",
 "issuedAt" :  <TIMESTAMP> ,
 "endPoint" : "<ENDPOINT_URI>"
}
```

Get Throttling Limits

Responsys monitors and throttles the frequency of API requests that are submitted from each Oracle Responsys account. This is to ensure that the best possible level of service is offered to API clients in a shared environment.

You can use this API to obtain a list of API throttling limits for key interfaces for your Responsys account.

Service URL:

```
/rest/api/ratelimit
```

IMPORTANT: Unlike the other REST API calls, the service URL for Get Throttling limit does not include a version number. This is because it is handled directly by the Oracle API Gateway server. If you include a version number, you will receive an error response (`HTTP Status 404 – Not Found`).

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
Not applicable
```

Response:

RESPONSE NOTES: A successful response returns your Responsys account-specific throttling limits of all APIs configured on the gateway server, and it may include some APIs that are not enabled for your account. If your account is not configured for throttling for a specific API, the gateway server returns the default throttle limit for that API.

- A successful response will return the following for each REST API for which throttling limits apply:
    - `limit`: Number of requests allowed per minute for the API.
    - `api`: System name of the API for which the limit applies.
    - `resource_path`: The resource path of the API. For example, for Merge Trigger Email, it would show `/campaigns/{campaignName}/email`.
    - `verb`: The API method (GET, POST, PUT, or DELETE).
    - `description`: Text description of the API.

- Common error responses include the following:
    - 404: HTTP Status 404 – Not Found. One common cause for this is when “v1.3” is included in the endpoint path. Ensure that you are using `/rest/api/ratelimit`.
    - 500: UNEXPECTED_EXCEPTION (“Not a valid authentication token”). You must use a valid authentication token in your request. Try logging in again and use the authToken returned in the successful login response.

Successful Response Example

NOTE: The values shown in the following example are from a test environment and represent a partial sample of the response body. ***The values in the response you receive for your account will differ***.


```
[
    {
        "limit": "10",
        "api": "login",
        "resource_path": "auth/token",
        "verb": "POST",
        "description": "Login"
    },
    {
        "limit": "100",
        "api": "retrieveProfileLists",
        "resource_path": "lists",
        "verb": "GET",
        "description": "Fetch All Profile Lists"
    },
.
.
.
    {
        "limit": "1000",
        "api": "mergeListRecipients",
        "resource_path": "lists/{listName}/members",
        "verb": "POST",
        "description": "Merge List Recipients"
    },
    {
        "limit": "100",
        "api": "retrieveListRecipients",
        "resource_path": "lists/{listName}/members",
        "verb": "GET",
        "description": "Retrieve List Recipient using query attribute"
    },
.
.
.
    {
        "limit": "1000",
        "api": "HaMergeListRecipients",
        "resource_path": "lists/{listName}/members",
        "verb": "POST",
        "description": "Merge List Recipients"
    }
]
```

More about throttling limits for the Responsys Web Services API:

Depending on the type of API function, a specific frequency rate limit is imposed based on an account's total number of requests made per minute for that function. For example, the API function for triggering email messages can be called more times per minute than the API function for launching a campaign. By default, the throttling limit for high volume API functions (for example, triggering email messages or merging records into a profile list) is set to 200 requests per minute.

When an account exceeds its allowable frequency rate limit for an API request, you see the error code `API_LIMIT_EXCEEDED` and this message "`You exceeded your allowable limit to call the <function_name> API function. Please try again in a minute.`" On the other hand, if a specific user of an account is blocked from using selected API functions, the user sees the error code `API_BLOCKED` with this message: "`The <function_name> is currently not available to this user. Please contact tech support.`"

Managing Profile List Tables

All profile lists in an account can be retrieved. Also, members of a list can be retrieved, and new members can be added to a list or attribute values of existing members can be updated. Finally, a member of a profile list can be deleted using its RIID.

Retrieving all profile lists for an account

Use this interface to retrieve all profile lists for an account.

Service URL:

```
/rest/api/v1.3/lists
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:

RESPONSE NOTE: The response is a collection of Profile Lists. Each of the individual objects in the collection represents a Profile List Object.

```
[
      {
      "name": "DemoProfileList",
      "folderName": "Demo",
      "fields":       [
                  {
            "fieldName": "RIID_",
            "fieldType": "INTEGER"
         },
                  {
            "fieldName": "CREATED_SOURCE_IP_",
            "fieldType": "STR255"
         },
                  {
            "fieldName": "CUSTOMER_ID_",
            "fieldType": "STR255"
         },
                  {
            "fieldName": "EMAIL_ADDRESS_",
            "fieldType": "STR500"
         },
                  {
            "fieldName": "EMAIL_DOMAIN_",
            "fieldType": "STR255"
         },
                  {
            "fieldName": "EMAIL_ISP_",
            "fieldType": "STR255"
         },
                  {
            "fieldName": "EMAIL_FORMAT_",
            "fieldType": "CHAR"
         },
                  {
            "fieldName": "EMAIL_PERMISSION_STATUS_",
            "fieldType": "CHAR"
         },
                  {
            "fieldName": "EMAIL_DELIVERABILITY_STATUS_",
            "fieldType": "CHAR"
         },
                  {
            "fieldName": "EMAIL_PERMISSION_REASON_",
            "fieldType": "STR255"
         },
                  {
            "fieldName": "EMAIL_MD5_HASH_",
            "fieldType": "STR50"
         },
                  {
            "fieldName": "EMAIL_SHA256_HASH_",
            "fieldType": "STR100"
         },
                  {
            "fieldName": "MOBILE_NUMBER_",
            "fieldType": "STR50"
         },
                  {
            "fieldName": "MOBILE_COUNTRY_",
            "fieldType": "STR25"
         },
                  {
            "fieldName": "MOBILE_PERMISSION_STATUS_",
```

```
            "fieldType": "CHAR"
        },
                {
            "fieldName": "MOBILE_DELIVERABILITY_STATUS_",
            "fieldType": "CHAR"
        },
                {
            "fieldName": "MOBILE_PERMISSION_REASON_",
            "fieldType": "STR255"
        },
                {
            "fieldName": "POSTAL_STREET_1_",
            "fieldType": "STR255"
        },
                {
            "fieldName": "POSTAL_STREET_2_",
            "fieldType": "STR255"
        },
                {
            "fieldName": "CITY_",
            "fieldType": "STR50"
        },
                {
            "fieldName": "STATE_",
            "fieldType": "STR50"
        },
                {
            "fieldName": "POSTAL_CODE_",
            "fieldType": "STR25"
        },
                {
            "fieldName": "COUNTRY_",
            "fieldType": "STR50"
        },
                {
            "fieldName": "POSTAL_PERMISSION_STATUS_",
            "fieldType": "CHAR"
        },
                {
            "fieldName": "POSTAL_DELIVERABILITY_STATUS_",
            "fieldType": "CHAR"
        },
                {
            "fieldName": "POSTAL_PERMISSION_REASON_",
            "fieldType": "STR255"
        },
                {
            "fieldName": "CREATED_DATE_",
            "fieldType": "TIMESTAMP"
        },
                {
            "fieldName": "MODIFIED_DATE_",
            "fieldType": "TIMESTAMP"
        }
    ]
  },

{
    "name": "DemoList",
    "folderName": "Demo",
    "fields":       [
                {
            "fieldName": "RIID_",
```

```
                "fieldType": "INTEGER"
            },
            .
            .
            .
                    {
                "fieldName": "MODIFIED_DATE_",
                "fieldType": "TIMESTAMP"
            },
                    {
                "fieldName": "FIRST_NAME",
                "fieldType": "STR100"
            },
                    {
                "fieldName": "LAST_NAME",
                "fieldType": "STR100"
            }
        ]
    }
]
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "List not found",
   "errorCode": "LIST_NOT_FOUND",
   "detail": "Account : datateam : does not have any profile lists.",
   "errorDetails": []
}
```


Merge or update members in a profile list table

New members can be added to an existing profile list and existing members in a profile list can be updated. For a given list in a specific folder, an array of record data that contain field names and their corresponding field values are specified.

Please see the definition of merge rule parameters provided in section "Definitions of Rule Parameters for Merging Members into a Profile List" on page 116.

REQUEST NOTES:

- Up to 200 members can be handled per a single request.
- The `matchColumnName` attributes can have the following possible values: `RIID_`, `CUSTOMER_ID_`, `EMAIL_ADDRESS_`, `MOBILE_NUMBER_`, `EMAIL_MD5_HASH_`, `EMAIL_SHA256_HASH_`
- Limitations:
    - A combination of either of the email HASH keys or a combination of `EMAIL_ADDRESS` with either of the email HASH keys cannot be given as `matchColumnNames` at the same time.

- When either of the email HASH keys exists as a match column, then only updates are possible. Set the corresponding value in `insertOnNoMatch` to false when using these columns as match columns.

Service URL:

```
/rest/api/v1.3/lists/{listName}/members
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body:

```
{
        "recordData" : {
                "fieldNames" : ["riid_", "mobile_number_", "email_address_"],
                "records" :   [
                              ["4094326", "9845349498","ab.cd@gmail.com"],
                              ["4094327", "9844444444","unknown@oracle.com"],
                              ["4094328", "9844444666","abc@gmail.com"],
                              ["ssdcf", "9844444444","xyz"]
                ],
                "mapTemplateName" : null
        },
        "mergeRule" : {
                "htmlValue" : "H",
                "optinValue" : "I",
                "textValue" : "T",
                "insertOnNoMatch" : true,
                "updateOnMatch" : "REPLACE_ALL",
                "matchColumnName1" : "RIID_",
                "matchColumnName2" : null,
                "matchOperator" : "NONE",
                "optoutValue" : "O",
                "rejectRecordIfChannelEmpty" : null,
                "defaultPermissionStatus" : "OPTIN"
        }
}
```

Sample response in case of success

RESPONSE NOTES:

- Irrespective of what field names were used to perform the merge, the response will always contain only `RIID_` in the `fieldNames` attribute and the corresponding `RIID_` values for the records in the `records` attribute.
- In case merge failed for a record, the `RIID_` of the record is not present in the response. Instead, an error message starting with `MERGEFAILED:` is returned. Client developers can look for the string `MERGEFAILED:` in the response for a particular row to determine whether that recipient was merged successfully or not.

- **The order of records in the response matches the order of records specified in the request payload.** Furthermore, other attributes in the response, such as `mapTemplateName` and `mergeRule`, will mirror the valid values specified in the request payload or default to null/false in case of invalid values.


```
{
   "recordData":    {
      "fieldNames": ["RIID_"],
      "records":    [
         ["4094326"],
         ["4094327"],
         ["4094328"],
         ["MERGEFAILED: Record 3 = INVALID_PARAMETER: The value ssdcf is not
valid for an integer field\n\n\r\n"]
      ],
      "mapTemplateName": null
   },
   "mergeRule":    {
      "textValue": "T",
      "insertOnNoMatch": true,
      "updateOnMatch": "REPLACE_ALL",
      "matchOperator": "NONE",
      "matchColumnName3": null,
      "matchColumnName1": "RIID_",
      "matchColumnName2": null,
      "optinValue": "I",
      "optoutValue": "O",
      "rejectRecordIfChannelEmpty": null,
      "htmlValue": "H",
      "defaultPermissionStatus": "OPTIN"
   },
   "links":    [
      {
         "rel": "self",
         "href": "/rest/api/v1.3/lists/DemoNewsLetterList/members",
         "method": "POST"
      },
      {
         "rel": "retrieveListRecipientsRIID",
         "href": "/rest/api/v1.3/lists/DemoNewsLetterList/members/<riid>",
         "method": "GET"
      }
   ]
}
```


Sample response in case of failure


```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "matchColumnName1 in ListMergeRule is null or empty",
   "errorDetails": []
}
```

Retrieve a member of a profile list using RIID

Existing members of a profile list can be retrieved one at a time by using the Responsys ID (RIID).

REQUEST NOTES:

- The total length of the string passed in for the **`fs`** parameter (containing the comma separated field names) cannot exceed 150 characters.

- To retrieve values of all columns, you can specify only one field with value set to 'all' (if you have a column called 'all', you should use two or more specific column names to avoid getting all of the columns).

Service URL:

`/rest/api/v1.3/lists/{listName}/members/{riid}`

Request Method:

`GET`

Request Header:

`Authorization=<AUTH_TOKEN>`

Request parameters:

`fs - comma separated list of fields to retrieve or 'all'`

Request Body:

None

Sample Response in case of success:

RESPONSE NOTE: Other attributes in the response like `mapTemplateName` and `mergeRule` will have default values of null/false.

```
{
   "recordData":    {
      "fieldNames":       [
         "RIID_",
         "EMAIL_ADDRESS_",
         "MOBILE_NUMBER_"
      ],
      "records": [      [
         "4094326",
         "ab.cd@gmail.com",
         "9845349498"
      ]],
      "mapTemplateName": null
   },
   "mergeRule":    {
      "textValue": null,
```

```
        "insertOnNoMatch": false,
        "updateOnMatch": null,
        "matchOperator": null,
        "matchColumnName3": null,
        "matchColumnName1": null,
        "matchColumnName2": null,
        "optinValue": null,
        "optoutValue": null,
        "rejectRecordIfChannelEmpty": null,
        "htmlValue": null,
        "defaultPermissionStatus": null
    },
    "links":    [
         {
          "rel": "self",
          "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/members/4094326?fs=riid_,email_address_,
mobile_number_",
          "method": "GET"
       },
        {
          "rel": "mergeListRecipients",
          "href": "/rest/api/v1.3/lists/DemoNewsLetterList/members",
          "method": "POST"
       }
    ]
}
```


Sample Response in case of failure:


```
{
    "type": "",
    "title": "Record not found",
    "errorCode": "RECORD_NOT_FOUND",
    "detail": "No records found in the list for given ids",
    "errorDetails": []
}
```


Retrieve a member of a profile list based on query attribute

Existing members of a profile list can be retrieved one at a time by using a query attribute if the Responsys ID (RIID) for the member is not available.

REQUEST NOTES:

- The total length of the string passed in for the **`fs`** parameter (containing the comma separated field names) cannot exceed 150 characters.

- To retrieve values of all columns, you can specify only one field with value set to 'all' (if you have a column called 'all', you should use two or more specific column names to avoid getting all of the columns).

Service URL:

```
/rest/api/v1.3/lists/{listName}/members
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request parameters:

```
qa – Query Attribute. Can be one of the following values:
       'r' – RIID
       'e' – EMAIL_ADDRESS
       'c' – CUSTOMER_ID
       'm' – MOBILE_NUMBER
id – ID corresponding to the query attribute
fs – Comma separated field list or 'all'
```

Request Body:

```
None
```

Sample Response in case of success:

RESPONSE NOTE: Other attributes in the response like `mapTemplateName` and `mergeRule` will have default values of null/false.


```
{
   "recordData":    {
      "fieldNames":       [
         "RIID_",
         "EMAIL_ADDRESS_",
         "CUSTOMER_ID_"
      ],
      "records":       [
         [
            "4094330",
            "ab.na@gmail.com",
            null
         ],
         [
            "4094326",
            "ab.cd@gmail.com",
            null
         ]
      ],
      "mapTemplateName": null
   },
   "mergeRule":    {
      "textValue": null,
      "insertOnNoMatch": false,
      "updateOnMatch": null,
      "matchOperator": null,
      "matchColumnName3": null,
      "matchColumnName1": null,
      "matchColumnName2": null,
      "optinValue": null,
      "optoutValue": null,
      "rejectRecordIfChannelEmpty": null,
      "htmlValue": null,
```

```
      "defaultPermissionStatus": null
   },
   "links":    [
      {
         "rel": "self",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/members?qa=m&fs=riid_,email_address_,cus
tomer_id_&id=9845349498",
         "method": "GET"
      },
      {
         "rel": "mergeListRecipients",
         "href": "/rest/api/v1.3/lists/DemoNewsLetterList/members",
         "method": "POST"
      }
   ]
}
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "Invalid field name",
   "errorCode": "INVALID_FIELD_NAME",
   "detail": "Column(s) [CUSTOMER_ID] not found in the list",
   "errorDetails": []
}
```


Delete Profile List Recipients based on RIID

Use this interface to delete a profile list member by specifying the RIID for that member.

Service URL:

`/rest/api/v1.3/lists/{listName}/members/{riid}`

Request Method:

`DELETE`

Request Header:

`Authorization=<AUTH_TOKEN>`

Request Body:

`None`

Sample Response in case of success:

RESPONSE NOTES:

- The response will always contain only `RIID_` in the `fieldNames` attribute and the corresponding `RIID_` values for the records in the `records` attribute in case the deletion of that record is successful.

- In case delete failed for a record for some reason, the `RIID_` of the record is not present in the response. Instead, an error message starting with `DELETEFAILED:` is returned. Client developers can look for the string `DELETEFAILED:` in the response for a particular row to determine whether that recipient was deleted successfully or not.

- Other attributes in the response (`mapTemplateName`, `mergeRule`) will have default values (null/false).


```
{{
   "recordData":    {
      "fieldNames": ["RIID_"],
      "records": [["1561"]],
      "mapTemplateName": null
   },
   "mergeRule":    {
      "textValue": null,
      "matchColumnName3": null,
      "matchColumnName1": null,
      "matchColumnName2": null,
      "rejectRecordIfChannelEmpty": null,
      "defaultPermissionStatus": null,
      "updateOnMatch": null,
      "matchOperator": null,
      "optinValue": null,
      "optoutValue": null,
      "htmlValue": null,
      "insertOnNoMatch": false
   },
   "links":    [
            {
         "rel": "self",
         "href": "/rest/api/v1.3/lists/DemoProfileList/members/1561",
         "method": "DELETE"
      },
            {
         "rel": "mergeListRecipients",
         "href": "/rest/api/v1.3/lists/DemoProfileList/members",
         "method": "POST"
      },
            {
         "rel": "retrieveListRecipientsRIID",
         "href": "/rest/api/v1.3/lists/DemoProfileList/members/<riid>",
         "method": "GET"
      }
   ]
}
```


Sample Response in case recipient is not found:


```
   {
       "type": "",
       "title": "No recipient found",
       "errorCode": "NO_RECIPIENT_FOUND",
       "detail": "Record not Found in the List.",
       "errorDetails": []
    }
```

Sample Response in case of failure:


```
 {
   "recordData":    {
      "fieldNames": ["RIID_"],
      "records": [["DELETEFAILED: ERROR: The value abdce is not valid for an
integer field"]],
      "mapTemplateName": null
   },
   "mergeRule":    {
      "textValue": null,
      "matchColumnName3": null,
      "matchColumnName1": null,
      "matchColumnName2": null,
      "rejectRecordIfChannelEmpty": null,
      "defaultPermissionStatus": null,
      "updateOnMatch": null,
      "matchOperator": null,
      "optinValue": null,
      "optoutValue": null,
      "htmlValue": null,
      "insertOnNoMatch": false
   },
   "links":    [
            {
         "rel": "self",
         "href": "/rest/api/v1.3/lists/DemoProfileList/members/abcde",
         "method": "DELETE"
      },
            {
         "rel": "mergeListRecipients",
         "href": "/rest/api/v1.3/lists/DemoProfileList/members",
         "method": "POST"
      },
            {
         "rel": "retrieveListRecipientsRIID",
         "href": "/rest/api/v1.3/lists/DemoProfileList/members/<riid>",
         "method": "GET"
      }
   ]
}
```


Managing Profile Extension Tables

For a given profile list table, its profile extension tables can be retrieved. In addition, new profile extension tables can be created, and for an existing profile extension table, its members can be added, updated, retrieved, or deleted.

Retrieve all profile extensions of a profile list

Use this interface to retrieve all profile extension tables (PETs) associated with a given profile list table.

Service URL:

`/rest/api/v1.3/lists/{listName}/listExtensions`

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:

RESPONSE NOTE: The response is a collection of all PETs for the specified Profile List. Each of the individual objects in the collection represents a Profile Extension Object with a link 'Create a Profile Extension' for the Profile List.


```
[{
   "profileExtension":    {
      "objectName": "WS_Auto_RIPET",
      "folderName": "WS_Auto_RIFolder"
   },
   "fields":    [
      {
         "fieldName": "RIID_",
         "fieldType": "INTEGER"
      },
      {
         "fieldName": "ENAME",
         "fieldType": "STR500"
      },
      {
         "fieldName": "EMPID",
         "fieldType": "STR500"
      },
      {
         "fieldName": "CREATED_BY_LOAD_JOB_ID_",
         "fieldType": "INTEGER"
      },
      {
         "fieldName": "LAST_MOD_BY_LOAD_JOB_ID_",
         "fieldType": "INTEGER"
      },
      {
         "fieldName": "CREATED_DATE_",
         "fieldType": "TIMESTAMP"
      },
      {
         "fieldName": "MODIFIED_DATE_",
         "fieldType": "TIMESTAMP"
      },
      {
         "fieldName": "LAST_BULK_LOAD_ID_",
         "fieldType": "INTEGER"
      },
      {
         "fieldName": "EMAIL_SHA256_HASH_",
         "fieldType": "STR100"
      },
```

```
            {
               "fieldName": "EMAIL_ADDRESS_",
               "fieldType": "STR500"
            },
            {
               "fieldName": "CUSTOMER_ID_",
               "fieldType": "STR255"
            },
            {
               "fieldName": "EMAIL_PERMISSION_STATUS_",
               "fieldType": "CHAR"
            },
            {
               "fieldName": "EMAIL_MD5_HASH_",
               "fieldType": "STR50"
            },
            {
               "fieldName": "EMAIL_ISP_",
               "fieldType": "STR255"
            },
            {
               "fieldName": "EMAIL_FORMAT_",
               "fieldType": "CHAR"
            },
            {
               "fieldName": "EMAIL_DELIVERABILITY_STATUS_",
               "fieldType": "CHAR"
            },
            {
               "fieldName": "EMAIL_DOMAIN_",
               "fieldType": "STR255"
            }
         ],
         "links": [   {
            "rel": "createProfileExtensionTable",
            "href": "/rest/api/v1.3/lists/WS_Auto_RILIST/listExtensions",
            "method": "POST"
         }]
      }]
```


Sample Response in case of failure:


```
      {
         "type": "",
         "title": "List not found",
         "errorCode": "LIST_NOT_FOUND",
         "detail": "WS_Auto_RILISTs is an invalid list.",
         "errorDetails": []
      }
```


Create a new profile extension table

You can create a new profile extension table for a given profile list by providing the schema of the profile extension table.

REQUEST NOTE: When creating a new profile extension table, the supported field types are:

```
STR500

STR4000
```

```
INTEGER

NUMBER

TIMESTAMP
```

Service URL:

```
/rest/api/v1.3/lists/{listName}/listExtensions
```

Request Method:

```
POST
```

Request Body:

```
{
"profileExtension" : {
    "objectName":"ws_rest_petx",
    "folderName":"WS_REST_SAMPLE"},
    "fields":[{"fieldName":"edu", "fieldType" : "STR500"}]
}
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Response if successful:

```
true
```

Sample Response if failed:

```
{
   "type": "",
   "title": "Folder not found",
   "errorCode": "FOLDER_NOT_FOUND",
   "detail": "WS_REST_SAMPLESS Folder Not Found",
   "errorDetails": []
}
```

Merge or update members in a profile extension table

For an existing profile extension table, you can add new members or update data for existing members.

REQUEST NOTES:

- The service URL requires the names of *both* the Profile List and the Profile Extension Table.
- Up to 200 members can be processed in a single request.
- Up to two match columns can be used for merging records into a profile extension table. If only one match column is specified, the other match column can be set to null.

- For a given profile extension table, an array of record data that contain field names and their corresponding field values are specified. The `fieldNames` attribute must contain at least one of the merge key fields from the profile list (for example, `RIID_`, `EMAIL_ADDRESS_`, `CUSTOMER_ID_`), otherwise the request will result in a `MERGEFAILED` error.

- `matchColumnName1` and `matchColumnName2` values must not contain the usual trailing underscore for the enumerated values. For example, `RIID` works but `RIID_` results in an

  `INVALID_PARAMETER` error ("Match Column is null"). `matchColumnName` values can be as follows: `RIID`, `CUSTOMER_ID`, `EMAIL_ADDRESS`, `MOBILE_NUMBER`, `EMAIL_MD5_HASH`, or `EMAIL_SHA256_HASH`

- Limitation for match columns: New records will not be inserted for `insertOnNoMatch` if a `matchColumnName` is either `EMAIL_MD5_HASH` or `EMAIL_SHA256_HASH`, even if matching records are not found in the table. The email hash attributes (`EMAIL_MD5_HASH` or `EMAIL_SHA256_HASH`) are only used for updating existing records.

Please see the definition of merge rule parameters provided in section "Definitions of Rule Parameters for Merging Members into a Profile List" on page 116.

Service URL:

```
/rest/api/v1.3/lists/{listName}/listExtensions/{petName}/members
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body:

```
{
          "recordData" : {
           "fieldNames" : ["riid_", "email_address_", "salary"],
           "records" : [
                          ["1761408", "foo@bar.com", "10000"],
                          ["98798", "baz@foo.com", "298909"],
                          ["xyz", "bar@baz.com", "wedrfwe"],
                          ["12312", "bar@foo.com", "23423","23423"],
                          ["1761409","foo@baz.com", "239482734"]
                       ],
                "mapTemplateName" : null
          },
          "insertOnNoMatch" : true,
          "updateOnMatch" : "REPLACE_ALL",
          "matchColumnName1" : "RIID",
          "matchColumnName2" : "EMAIL_ADDRESS"
}
```

Sample Response in case of success:

RESPONSE NOTES:

- Irrespective of what field names were used to perform the merge, the response will always contain only `RIID_` in the `fieldNames` attribute and the corresponding RIID_ values for the records in the `records` attribute.
- In case merge failed for a record, the `RIID_` of the record is not present in the response. Instead, an error message starting with `MERGEFAILED:` is returned. Client developers can look for the string `MERGEFAILED:` in the response for a particular row to determine whether that recipient was merged successfully or not.
- **The order of records in the response matches the order of records specified in the request payload.** Furthermore, other attributes in the response like `mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumn` will mirror the valid values specified in the request payload or default to null/false in case of invalid values.

```
{
   "recordData":    {
      "fieldNames": ["RIID_"],
      "records":       [
         ["1761408"],
         ["MERGEFAILED: Record 1 = RECORD DOES NOT MATCH ANY CONTACTS IN THE
LIST DemoNewsLetterList\r\n"],
         ["MERGEFAILED: Record 2 = ERROR: The value xyz is not valid for an
integer field\n\n\r\n"],
         ["MERGEFAILED: Record 3 = Field Names length, doesn't match with Field
Values length\r\n"],
         ["1761409"]
      ],
      "mapTemplateName": null
   },
   "insertOnNoMatch": true,
   "updateOnMatch": "REPLACE_ALL",
   "matchColumnName1" : "RIID",
   "matchColumnName2" : "EMAIL_ADDRESS"
   "links":    [
      {
         "rel": "self",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs",
         "method": "POST"
      },
      {
         "rel": "retrieveProfileExtensionRecipientsRIID",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs/<riid>",
         "method": "GET"
      },
      {
         "rel": "deleteProfileExtensionRecipientsRIID",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs/<riid>",
         "method": "DELETE"
```

```
            }
        ]
    }
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "Match Column is null",
   "errorDetails": []
}
```

Retrieve a member of a profile extension table based on RIID

You can retrieve existing members of a profile extension table one at a time by specifying the member's Responsys ID (RIID).

REQUEST NOTES:

- The service URL requires the names of *both* the Profile List and the Profile Extension Table.
- The total length of the string passed in for the **`fs`** parameter (containing the comma separated field names) cannot exceed 150 characters.
- To retrieve values of all columns, you can specify only one field with value set to **`all`** (if you have a column called 'all', you should use two or more specific column names to avoid getting all of the columns).

Service URL:

```
/rest/api/v1.3/lists/{listName}/listExtensions/{petName}/members/{riid}
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request parameters:

```
fs - comma separated list of fields to retrieve or all
```

Request Body:

```
None
```

Sample Requests:

To retrieve all fields:

```
/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members/1761408?fs=all
```

To receive the fields Salary and RIID_:

```
/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members/1761408?fs=salary,riid_
```

Sample Response in case of success:

RESPONSE NOTE: Other attributes in the response, such as `mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumn`, will have default values (`null`/`false`).


```
{
   "recordData":    {
      "fieldNames":       [
         "SALARY",
         "RIID_"
      ],
      "records": [      [
         "10000",
         "1761408"
      ]],
      "mapTemplateName": null
   },
   "insertOnNoMatch": false,
   "updateOnMatch": null,
   "matchColumn": null,
   "links":    [
   {
         "rel": "self",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members/1761408?fs=salary,riid_",
         "method": "GET"
   },
   {
         "rel": "mergeProfileExtensionRecipients",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members",
         "method": "POST"
   },
   {
         "rel": "deleteProfileExtensionRecipientsRIID",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members/<riid>",
         "method": "DELETE"
    }
   ]
}
```

Sample Responses in case of failure:

When the system cannot find a record matching the ID that you sent:

```
{
   "type": "",
   "title": "Record not found",
   "errorCode": "RECORD_NOT_FOUND",
   "detail": "No records found in the table for the given ids",
   "errorDetails": []
}
```

If the fs parameter is omitted:

```
{
  "type": "",
  "title": "Invalid request parameters",
  "errorCode": "INVALID_PARAMETER",
  "detail": "FieldList is null OR empty",
  "errorDetails": []
}
```

Retrieve a member of a profile extension table based on a query attribute

You can retrieve existing members of a profile extension table one at a time by specifying a unique identifier other than the member's Responsys ID (RIID) through the query attribute of the interface.

REQUEST NOTES:

- The service URL requires the names of *both* the Profile List and the Profile Extension Table.
- The total length of the string passed in for the **`fs`** parameter (containing the comma separated field names) cannot exceed 150 characters.
- To retrieve values of all columns, you can specify only one field with value set to 'all' (if you have a column called 'all', you should use two or more specific column names to avoid getting all of the columns).

Service URL:

```
/rest/api/v1.3/lists/{listName}/listExtensions/{petName}/members
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Parameters:

```
qa – Query Attribute. Can be one of the following values:
       'r' – RIID
       'e' – EMAIL_ADDRESS
       'c' – CUSTOMER_ID
       'm' – MOBILE_NUMBER
fs – Comma separated list of field names or 'all'
id – ID corresponding to the query attribute.
```

Request Body:

```
None
```

Sample Response in case of success:

RESPONSE NOTE: Other attributes in the response, such as `mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumn`, will have default values (`null`/`false`).


```
{
   "recordData":    {
      "fieldNames":       [
         "RIID_",
         "SALARY"
      ],
      "records": [      [
         "1761409",
         "239482734"
      ]],
      "mapTemplateName": null
   },
   "insertOnNoMatch": false,
   "updateOnMatch": null,
   "matchColumn": null,
   "links":    [
      {
         "rel": "self",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members
?qa=e&fs=riid_,salary&id=responsysblr@gmail.com",
         "method": "GET"
      },
      {
         "rel": "mergeProfileExtensionRecipients",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members
",
         "method": "POST"
      },
      {
         "rel": "deleteProfileExtensionRecipientsRIID",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/members
/<riid>",
         "method": "DELETE"
      }
   ]
}
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Record not found",
   "errorCode": "RECORD_NOT_FOUND",
   "detail": "No records found in the table for the given ids",
   "errorDetails": []
}
```

Delete a member of a profile extension table based on RIID

You can delete existing members of a profile extension table one at a time by specifying the Responsys ID (RIID).

Service URL:

`/rest/api/v1.3/lists/{listName}/listExtensions/{petName}/members/{riid}`

Request Method:

`DELETE`

Request Header:

`Authorization=<AUTH_TOKEN>`

Request Body:

`None`

Sample Response in case of success:

RESPONSE NOTES:

- The service URL requires the names of *both* the Profile List and the Profile Extension Table.
- The response will always contain only `RIID_` in the `fieldNames` attribute and the corresponding `RIID_` values for the records in the `records` attribute in case the deletion of that record is successful.
- In case delete failed for a record for some reason, the `RIID_` of the record is not present in the response. Instead, an error message starting with `DELETEFAILED:` is returned. Client developers can look for the string `DELETEFAILED:` in the response for a particular row to determine whether that recipient was deleted successfully or not.
- Other attributes in the response (`mapTemplateName`, `mergeRule`, `insertOnNoMatch`, `updateOnMatch`, `matchColumn`) will have default values (`null`/`false`).

```
{
   "recordData":    {
      "fieldNames": ["RIID_"],
```

```
      "records": [["1761409"]],
      "mapTemplateName": null
   },
   "insertOnNoMatch": false,
   "updateOnMatch": null,
   "matchColumn": null,
   "links":    [
      {
         "rel": "self",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs/1761409",
         "method": "DELETE"
      },
      {
         "rel": "mergeProfileExtensionRecipients",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs",
         "method": "POST"
      },
      {
         "rel": "retrieveProfileExtensionRecipientsRIID",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs/<riid>",
         "method": "GET"
      }
   ] }
```


Sample Response in case of failure:


```
{
   "recordData":    {
      "fieldNames": ["RIID_"],
      "records": [["DELETEFAILED: NO records found for id\n"]],
      "mapTemplateName": null
   },
   "insertOnNoMatch": false,
   "updateOnMatch": null,
   "matchColumn": null,
   "links":    [
      {
         "rel": "self",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs/1761409",
         "method": "DELETE"
      },
      {
         "rel": "mergeProfileExtensionRecipients",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs",
         "method": "POST"
      },
      {
         "rel": "retrieveProfileExtensionRecipientsRIID",
         "href":
"/rest/api/v1.3/lists/DemoNewsLetterList/listExtensions/DemoNewsLetterPet/membe
rs/<riid>",
         "method": "GET"
      }
   ]
```

```
}
```

Add or Update RIID-to-Audience Scope Code Mapping Data for Profile List members

IMPORTANT: This API only applies if Targeting by Organization is enabled for your account.

This API allows you to update the system mapping table that maps a Profile List member's RIID to the Organization Scope appropriate for that member. This ensures that Responsys only sends messages to those recipients belonging to a campaign's target audience of selected organization units.

REQUEST NOTES:

- The service URL only requires the names of the Profile List. The mapping table that stores the information is an internal system table that is not accessible through the application UI.

- Up to 200 members can be processed in a single API request.

- Up to two match columns can be used for merging records into the table. If only one match column is specified, the other match column can be set to an empty value (for example, `"matchColumnName2" : ""`).

- Mandatory `fieldNames` attributes:
    - `AUDIENCE_SCOPE_CODE`: This is the audience scope code, as defined in the organization table. It is a code that defines the org to which the customer belongs. You can view the organization tree when logged in to Responsys by selecting Account | Organization Management.
    - `REC_STATUS_`: This is the status of the record. Valid values are `"A"` (Active) or `"D"` (Deleted).
        - **To add a mapping record**: Specify `"A"` for REC_STATUS_. The system adds the mapping to the table. Note that each RIID (customer) can have more than one audience scope coding.
        - **To mark a record as deleted**: Specify `"D"` for REC_STATUS_. The system will treat this record as deleted.
    - Must include a system column name to be used for the merge, and it should also be used for `matchColumnName1`.
- `matchColumnName1` and `matchColumnName2` values must not contain the usual trailing underscore for the enumerated values. For example, `RIID` works but `RIID_` results in an `INVALID_PARAMETER` error ("Match Column is null"). Match Column Name values can be as follows: `RIID`, `CUSTOMER_ID`, `EMAIL_ADDRESS`, `MOBILE_NUMBER`, `EMAIL_MD5_HASH`, or `EMAIL_SHA256_HASH`

- Limitation for match columns: New records will not be inserted for `insertOnNoMatch` if a `matchColumnName` is either `EMAIL_MD5_HASH` or `EMAIL_SHA256_HASH`, even if matching records

are not found in the table. The email hash attributes (EMAIL_MD5_HASH or EMAIL_SHA256_HASH) are only used for updating existing records.

Please see the definition of merge rule parameters provided in section "Definitions of Rule Parameters for Merging Members into a Profile List" on page 116.

Service URL:

```
/rest/api/v1.3/lists/{list_name}/orgListExtensions/members
```

Request Method:

```
PUT
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body Example:

In the example below, both records have an AUDIENCE_SCOPE_CODE of "IN". The first example is a valid "Active" (add) entry, but the second record illustrates an incorrect REC_STATUS_, "F", which will result in the INVALID_PARAMETER error shown in the Sample Response Body.

```
{
  "recordData" : {
    "fieldNames" : ["AUDIENCE_SCOPE_CODE", "REC_STATUS_", "EMAIL_ADDRESS_"],
    "records" : [
      ["IN", "A", "4as0dsa@yahoo.com"],
      ["IN", "F", "abcd@gmail.com"]
    ],
    "mapTemplateName" : null
  },
  "insertOnNoMatch" : true,
  "updateOnMatch" : "REPLACE_ALL",
  "matchColumnName1" : "EMAIL_ADDRESS"
  "matchColumnName2" : ""
}
```

RESPONSE:

For each record, if the Audience Scope Code is valid, then system updates the table. The system updates the table with the Profile List member's RIID, Audience Scope Code, and status details (REC_STATUS_).

- Irrespective of what field names were used to perform the merge, the response will always contain only RIID_ in the fieldNames attribute and the corresponding RIID_ values for the records in the records attribute.
- In case merge failed for a record, an error message starting with MERGEFAILED: is returned. Client developers can look for the string MERGEFAILED: in the response for a particular row to determine whether that recipient was merged successfully or not.

  Reasons for MERGEFAILED include an invalid REC_STATUS_ value, Audience Scope Code

provided does not exist, and Audience Scope Code provided does not exist AND the member is not found in the Profile List.

- **The order of records in the response matches the order of records specified in the request payload.** Furthermore, other attributes in the response like `mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumn` will mirror the valid values specified in the request payload or default to null/false in case of invalid values.

Sample response – successful merge for the first record, failed merge for the second record:

In this example, we sent two records (per the previous request example) to merge to the mapping table. The request was sent to the endpoint using the Profile List "contacts_list" as the `{list_name}` value. The list name is used in the endpoints provided in the `links` array in the response.

```
{
  "recordData":
    { "fieldNames": [ "RIID_" ],
      "records": [
        [ "8381" ],
        [ "MERGEFAILED: Invalid REC_STATUS_ provided - should be 'A' or 'D' " ]
  ],
    "mapTemplateName": null },

  "insertOnNoMatch": true,
  "updateOnMatch": "REPLACE_ALL",
  "matchColumn": "EMAIL_ADDRESS",

  "links": [
    { "rel": "self", "href":
"/rest/api/v1.3/lists/contacts_list/orgListExtensions/members", "method": "PUT"
},
    { "rel": "retrieveProfileExtensionRecipientsRIID", "href":
"/rest/api/v1.3/lists/ contacts_list/listExtensions//members/<riid>", "method":
"GET"}
  ]
}
```

ERROR NOTES

- The sample on the next page shows the format for the error response body.
- Common errors returned when the request fails:

Error Code	Detail
RECORD_LIMIT_EXCEEDED	Record limit exceeded, maximum of 200 records are allowed per each API call
INVALID_PARAMETER	Match column name is not in `fieldNames`

INVALID_PARAMETER	Match column name is empty or is not a system column
INVALID_PARAMETER	`fieldNames` should have `REC_STATUS_` and `AUDIENCE_SCOPE`
PROFILE_EXTENSION_NOT_FOUND	No Organization Profile Extensions Found For List `<list_name>`.

Sample response in case of failure – request body attempted to send more than 200 recipients:

```
{
   "type": "",
   "title": "Record limit exceeded",
   "errorCode": "RECORD_LIMIT_EXCEEDED",
   "detail": "Record limit exceeded, maximum of 200 records are allowed per each
api call",
   "errorDetails": []
}
```

Managing Supplemental Tables

You can retrieve all supplemental data for your account, and you can create new supplemental tables. For an existing supplemental table, its members can be added, updated, retrieved, or deleted.

Retrieve all supplemental tables

Use this interface to get all supplemental table data for your account.

Service URL:

```
/rest/api/v1.3/suppData
```

Request Method:

```
GET
```

Query Parameters:

`offset`: starts at 0 and indicates the record number for the response result set (defaults to 0)
`limit`: number of Supplemental Table records to return in the response (defaults to 200 and cannot exceed 200)

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

```
Not applicable
```

Sample Response in case of success:

RESPONSE NOTES:

- The system returns an array of `suppData` objects. These objects contain the data for the supplemental table:
    - `objectName`: Name of the supplemental table
    - `folderName`: Name of the folder containing the supplemental table
    - `fields`: An array containing the supplemental table's field properties. Key-value pairs are `fieldname` and `fieldType` (data type of the field).
- If your Responsys account does not have supplemental tables defined, then the response is an empty array.
- For accounts enabled for Organizational Access Control, the organization filter is applied before sending the response.


```
[
    {
        "suppData": {
            "objectName": "MY_SUPPLEMENTAL",
            "folderName": "myExample"
        },
        "fields": [
            {
                "fieldName": "EMAIL_ADDRESS",
                "fieldType": "STR500"
            },
            {
                "fieldName": "AGE",
                "fieldType": "NUMBER"
            },
            {
                "fieldName": "ARRIVAL",
                "fieldType": "TIMESTAMP"
            },
            {
                "fieldName": "DEPARTURE",
                "fieldType": "TIMESTAMP"
            },
            {
                "fieldName": "CITY",
                "fieldType": "STR25"
            },
            {
                "fieldName": "STATE",
```

```
                "fieldType": "STR25"
            },
            {
                "fieldName": "EVENT",
                "fieldType": "STR25"
            },
            {
                "fieldName": "EVENT_ID",
                "fieldType": "INTEGER"
            },
            {
                "fieldName": "CREATED_DATE_",
                "fieldType": "TIMESTAMP"
            },
            {
                "fieldName": "MODIFIED_DATE_",
                "fieldType": "TIMESTAMP"
            }
        ]
    },
    {
        "suppData": {
            "objectName": "jmp supp table",
            "folderName": "JMP test"
        },
        "fields": [
            {
                "fieldName": "ANIMAL",
                "fieldType": "STR25"
            },
            {
                "fieldName": "VEGETABLE",
                "fieldType": "STR100"
            },
            {
                "fieldName": "MINERAL",
                "fieldType": "STR25"
            },
            {
                "fieldName": "NUMERAL",
                "fieldType": "INTEGER"
            },
            {
                "fieldName": "CREATED_DATE_",
                "fieldType": "TIMESTAMP"
            },
            {
                "fieldName": "MODIFIED_DATE_",
                "fieldType": "TIMESTAMP"
            }
        ]
    },
    {
        "suppData": {
            "objectName": "example_supp",
            "folderName": "ExampleFolder"
        },
        "fields": [
            {
                "fieldName": "ORDER_ID",
                "fieldType": "NUMBER"
            },
            {
```

```
                "fieldName": "PRICE",
                "fieldType": "NUMBER"
            },
            {
                "fieldName": "RIID_",
                "fieldType": "NUMBER"
            },
            {
                "fieldName": "CREATED_DATE_",
                "fieldType": "TIMESTAMP"
            },
            {
                "fieldName": "MODIFIED_DATE_",
                "fieldType": "TIMESTAMP"
            }
        ]
    }
]
```

Create a new supplemental table

Use this interface to create a new supplemental table by providing its schema.

Service URL:

```
/rest/api/v1.3/folders/{folderName}/suppData
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

```
{
"table" : {"objectName": "WS_REST_SUPPDATA_NEW"},
"fields" : [{
          "fieldName":"edu",
          "fieldType" : "STR500",
          "dataExtractionKey" : false},
          {
          "fieldName":"uni",
          "fieldType" : "STR500",
          "dataExtractionKey" : false
          },
          {
          "fieldName":"grade",
          "fieldType" : "STR500",
          "dataExtractionKey" : false
          }],
                "primaryKeys" : ["edu"]
}
```

Response if successful:

```
true
```

Sample Response if failed:

```
{
   "type": "",
           "title": "Invalid request parameters",
           "errorCode": "INVALID_PARAMETER",
           "detail": "Create Table Without PK is not supported.
                  Please include Primary Key.",
           "errorDetails": []
}
```

Merge supplemental table records using primary key

For an existing supplemental table, you can add new members or update data for existing members.

REQUEST NOTES:

- For a given supplemental table in a specific folder, you must specify an array of record data that contains field names and their corresponding field values along with ALL primary keys to identify the desired record.
- A maximum of 200 records can be merged in one request.
- All the Primary Key Fields of the table must be specified in the `fieldnames` attribute along with their corresponding values in the `records` attribute.
- Field names specified in the `fieldNames` attribute are case sensitive. They must match their case as defined in the supplemental table.

Service URL:

```
/rest/api/v1.3/folders/{folderName}/suppData/{tableName}/members
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

```
{
    "recordData" : {
    "fieldNames" : ["PK1", "PK2", "F1", "F2", "PK3"],
    "records" : [
                ["1", "1", "onerec", "onecol", "1"],
                ["1", "1", "tworec", "twocol", "2"],
```

```
                    ["1", "2", "threerec", "threecol", "2"],
                    ["1", "2", "fourrec", "fourcol", "3"],
                    ["1", "1", "fiverec", "fivecol", "1", ""]
                    ],
        "mapTemplateName" : null
    },
     "insertOnNoMatch" : true,
     "updateOnMatch" : "REPLACE_ALL"
}
```

Sample Response in case of success:

RESPONSE NOTES:

- In case a record was merged successfully, the record in the response ***mirrors the record*** in the request payload.
- In case merge failed, the first element of the record contains an error message starting with `MERGEFAILED:` and depending on the number of elements present in the record in the request, the other elements in the record in the response are empty strings. Client developers can look for the string `MERGEFAILED:` in the response for a particular row to determine whether that recipient was merged successfully or not.
- **The order of records in the response matches the order of records specified in the request payload.**
- Other attributes in the response, such as `mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumn`, will mirror the valid values specified in the request payload ***or*** default to null/false in case of invalid values.

```
{
   "recordData":    {
      "fieldNames":       [
         "PK1",
         "PK2",
         "F1",
         "F2",
         "PK3"
      ],
      "records":       [
         [
            "1",
            "1",
            "onerec",
            "onecol",
            "1"
         ],

        [
            "1",
            "1",
            "tworec",
            "twocol",
            "2"
         ],
         [
            "1",
            "2",
```

```
            "threerec",
            "threecol",
            "2"
         ],
         [
            "1",
            "2",
            "fourrec",
            "fourcol",
            "3"
         ],
         [
            "MERGEFAILED: Record 4 = Field Names length, doesn't match with Field
Values length\r\n",
            "",
            "",
            "",
            ""
         ]
      ],
      "mapTemplateName": null
   },
   "insertOnNoMatch": true,
   "updateOnMatch": "REPLACE_ALL",
   "links": [   {
      "rel": "self",
      "href":
"/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/members",
      "method": "POST"
   }]
}
```

Sample Response in case not all primary key fields are specified in the request payload:

```
{
   "recordData":    {
      "fieldNames":       [
         "PK1",
         "PK2",
         "F1",
         "F2"
      ],
      "records":       [
                  [
            "MERGEFAILED: Record 0 = NOT UPDATED PER MERGE RULE. MATCH FIELD
CANNOT BE EMPTY\r\n",
            "",
            "",
            ""
         ],
                  [
            "MERGEFAILED: Record 1 = NOT UPDATED PER MERGE RULE. MATCH FIELD
CANNOT BE EMPTY\r\n",
            "",
            "",
            ""
         ],
                  [
            "MERGEFAILED: Record 2 = NOT UPDATED PER MERGE RULE. MATCH FIELD
CANNOT BE EMPTY\r\n",
            "",
            "",
            ""
```

```
            ]
         ],
         "mapTemplateName": null
      },
      "insertOnNoMatch": true,
      "updateOnMatch": "REPLACE_ALL",
      "links": [   {
         "rel": "self",
         "href":
"/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/members",
         "method": "POST"
      }]
}
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "Invalid template mapping xuy",
   "errorDetails": []
}
```

Merge supplemental table records without primary key

For an existing supplemental table, you can add new members or update data for existing members.

REQUEST NOTES:

- For a given supplemental table in a specific folder, you must specify an array of record data that contains field names and their corresponding field values using a `matchColumnNames` attribute in the payload.
- A maximum of 200 records can be merged in one request.
- Use the `matchColumnNames` attribute in the payload to identify the column to use to match to a record in the supplemental table without a primary key.
- This interface enforces that `insertOnNoMatch` is `true` and `updateOnNoMatch` is "`REPLACE_ALL`" in the request payload.
- Field names specified in the `fieldNames` attribute are case sensitive. They must match their case as defined in the supplemental table.

Service URL:

```
/rest/api/v1.3/folders/{folderName}/suppData/{tableName}/members
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request body:

```
{
"recordData" : {
       "fieldNames" : ["F1", "F2"],
       "records" : [
                   ["onerec", "updatedvalues"]
                   ],
       "mapTemplateName" : null
},
 "insertOnNoMatch" : true,
 "updateOnMatch" : "REPLACE_ALL",
 "matchColumnNames" : ["F1"]
}
```

Sample Response in case of success:

RESPONSE NOTES:

- When a record was merged successfully, the record in the response mirrors the record in the request payload.
- In case merge failed for a record for some reason, the first element of the record contains an error message starting with `MERGEFAILED:` and depending on the number of elements present in the record in the request, the other elements in the record in the response are empty strings. Client developers can look for the string `MERGEFAILED:` in the response for a particular row to determine whether that recipient was merged successfully or not.
- **The order of records in the response matches the order of records specified in the request payload.** Furthermore, other attributes in the response (`mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumnNames`) will mirror the valid values specified in the request payload or default to null/false in case of invalid values.

```
{
   "recordData":    {
      "fieldNames":       [
         "F1",
         "F2"
      ],
      "records": [[
         "onerec",
         "updatedvalues"
      ]],
      "mapTemplateName": null
   },
   "insertOnNoMatch": true,
   "updateOnMatch": "REPLACE_ALL",
   "matchColumnNames": ["F1"],
   "links": [   {
      "rel": "self",
      "href":
"/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/members",
      "method": "POST"
   }]
}
```

Sample Response in case matchColumnNames and fieldNames specified cannot be used to identify records to merge:

Sample Payload:

```
{
 "recordData" : {
        "fieldNames" : ["PK1", "PK2", "F1", "F2", "PK3"],
        "records" : [
                    ["1", "1", "onerec", "onecol", "1"],
                    ["1", "1", "onerec", "onecol", "2"],
                    ["1", "1", "onerec", "onecol", "3"]
                    ],
        "mapTemplateName" : null
 },
  "insertOnNoMatch" : true,
  "updateOnMatch" : "REPLACE_ALL",
  "matchColumnNames" : ["F1"]
}
```

Response:

```
 {
  "recordData":    {
     "fieldNames":       [
        "PK1",
        "PK2",
        "F1",
        "F2",
        "PK3"
     ],
     "records":       [
                 [
            "MERGEFAILED: Unable to identify record to Merge from the Match
Columns and FieldNames Specified.",
            "",
            "",
            "",
            ""
         ],
                 [
            "MERGEFAILED: Unable to identify record to Merge from the Match
Columns and FieldNames Specified.",
            "",
            "",
            "",
            ""
         ],
                 [
            "MERGEFAILED: Unable to identify record to Merge from the Match
Columns and FieldNames Specified.",
            "",
            "",
            "",
            ""
         ]
     ],
     "mapTemplateName": null
  },
  "insertOnNoMatch": true,
  "updateOnMatch": "REPLACE_ALL",
  "matchColumnNames": ["F1"],
```

```
        "links": [   {
           "rel": "self",
           "href":
     "/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/members",
           "method": "POST"
         }]
     }
```

Sample Response in case insertOnMatch or updateOnNoMatch are invalid

Sample Payload:

```
     {
      "recordData" : {
             "fieldNames" : ["F1", "F2"],
             "records" : [
                         ["onerec", "updatedvalues"]
                         ],
             "mapTemplateName" : null
       },
        "insertOnNoMatch" : false,
        "updateOnMatch" : "REPLACE_ALL",
        "matchColumnNames" : ["F1"]
     }
```

Response:

```
    {
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "insertOnNoMatch must be true and updateOnMatch must be REPLACE_ALL if
matchColumnNames is specified",
   "errorDetails": []
  }
```

Sample Response in case matchColumnNames attribute is not specified:

Sample Payload:

```
     {
      "recordData" : {
             "fieldNames" : ["F1", "F2"],
             "records" : [
                         ["onerec", "updatedvalues"]
                         ],
             "mapTemplateName" : null
       },
        "insertOnNoMatch" : false,
        "updateOnMatch" : "REPLACE_ALL",
        "matchColumnNames" : null
     }
```

Response:

```
    {
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "MatchColumnNames must be specified to merge into a table that does not
have any primary keys",
   "errorDetails": []
  }
```

Retrieve supplemental table records with primary key

Use this interface to retrieve Supplemental Table Records by specifying the primary key values using the request parameters.

REQUEST NOTES:

- The total length of the string passed in for the **`fs`** parameter (containing the comma separated field names) cannot exceed 150 characters.
- To retrieve values of all columns, you can specify only one field with value set to **`all`** (if you have a column called **`all`**, you should use two or more specific column names to avoid getting all of the columns).

Service URL:

```
/rest/api/v1.3/folders/{folderName}/suppData/{tableName}/members
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Parameters:

```
qa – Query Attribute. All of the Primary Key values of the Supplemental Table
     must be specified by repeating this parameter.
fs – Comma separated list of field names or 'all'
id – IDs corresponding to the query attribute. All the Primary Key Values of
     the Supplemental Table must be specified by repeating this parameter. The
     order of the values must match the order of the Primary Keys specified in
     the 'qa' parameter.
```

Request Body:

```
None
```

Sample Request:

```
/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/members?qa=PK1&
qa=PK2&qa=PK3&fs=PK1,PK2,PK3,F1,F2&id=1&id=1&id=1
```

Sample Response in case of success:

RESPONSE NOTE: Other attributes in the response, such as `mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumn`, will have default values (`null`/`false`).

```
{
    "recordData":{
        "fieldNames":[
            "PK1",
```

```
                "PK2",
                "PK3",
                "F1",
                "F2"
            ],
            "records":[
            [
                    "1",
                    "1",
                    "1",
                    "onerec",
                    "onecol"
             ]
            ],
            "mapTemplateName":null
        },
        "insertOnNoMatch":false,
        "updateOnMatch":null,
        "links":[
            {
                "rel":"self",

"href":"/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/membe
rs?qa=PK1&qa=PK2&qa=PK3&fs=PK1,PK2,PK3,F1,F2&id=1&id=1&id=1",
                "method":"GET"
            },
            {
                "rel":"mergeTableMembers",

"href":"/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/membe
rs",
                "method":"POST"
            }
        ]
}
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "Invalid field name",
   "errorCode": "INVALID_FIELD_NAME",
   "detail": "Column(s) [F1] is not indexed",
   "errorDetails": []
}
```


Sample Response in case not ALL Primary Key Columns are specified in the 'qa' request parameter:


```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "All and Only the Primary Keys in the Table [PK1, PK2, PK3] must be
specified as Query Columns.",
   "errorDetails": []
}
```

Delete supplemental table records

Use this interface to delete a Supplemental Table Records by specifying the primary key using request parameters.

Service URL:

```
/rest/api/v1.3/folders/{folderName}/suppData/{tableName}/members
```

Request Method:

```
DELETE
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Parameters:

```
qa – Query Attribute. All the Primary Keys of the Supplemental Table must be
        specified by repeating this parameter.
id – IDs corresponding to the query attribute. All the Primary Key Values of the
        Supplemental Table must be specified by repeating this parameter. The
        order of the values must match the order of the Primary Keys specified in
        the 'qa' parameter.
```

Request Body:

```
None
```

Sample Request:

```
rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/members?qa=PK1&q
a=PK2&qa=PK3&fs=PK1,PK2,PK3,F1,F2&id=1&id=1&id=1
```

Sample Response in case of success:

RESPONSE NOTES:

- The response will always contain all the query attributes specified in the request parameter in the `fieldNames` attribute and the corresponding values for the records in the `records` attribute in case the deletion of that record is successful.
- In case a record is not found for the given id, an error response is returned that states, `"No Records found for the Id".`
- In case a record is found and delete failed for some reason, the record in the response contains an error message starting with `DELETEFAILED:`. Client developers can look for the string `DELETEFAILED:` in the response for a particular row to determine whether that record was deleted successfully or not.
- Other attributes in the response, such as `mapTemplateName`, `insertOnNoMatch`, `updateOnMatch`, and `matchColumn`, will have default values (null/false).

```
{
```

```
    "recordData":{
        "fieldNames":[
            "PK1",
            "PK2",
            "PK3"
        ],
        "records":[
            [
                "1",
                "1",
                "1"
            ]
        ],
        "mapTemplateName":null
    },
    "insertOnNoMatch":false,
    "updateOnMatch":null,
    "links":[
        {
            "rel":"self",

"href":"/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/membe
rs?qa=PK1&qa=PK2&qa=PK3&fs=PK1,PK2,PK3,F1,F2&id=1&id=1&id=1",
            "method":"DELETE"
        },

 {
            "rel":"mergeTableMembers",

"href":"/rest/api/v1.3/folders/DemoNewsLetter/suppData/CompositePKSuppTable/membe
rs",
            "method":"POST"
        }
    ]
}
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "Record not found",
   "errorCode": "RECORD_NOT_FOUND",
   "detail": "No records found in the table for the given ids",
   "errorDetails": []
}
```


Sample Response in case not ALL Primary Key Columns are specified in the ‘qa’ request parameter:


```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "All and Only the Primary Keys in the Table [PK1, PK2, PK3] must be
specified as Query Columns.",
   "errorDetails": []
}
```

Get All Campaigns

You can use the **Get All Campaigns** API (`GET /rest/api/v1.3/campaigns?type={campaign_type}`) to get a list of all active EMD email, Push, or SMS campaigns from Responsys. This helps you obtain the correct campaign names to use in other API requests. The following sections describe how to fetch campaigns for each supported campaign type.

Get all EMD email campaigns

Use this interface to get EMD Email campaigns and their properties.

IMPORTANT: To use the Get All Campaigns API to get all EMD email campaigns, your account must be enabled for Email Message Designer (EMD). Otherwise using the call will result in an error with HTTPS status code of 401 Unauthorized and API_DISABLED_FOR_USER in the error message payload.

Service URL:

```
/rest/api/v1.3/campaigns
OR
/rest/api/v1.3/campaigns?type=email
```

Required Path Parameters:

`type`: For EMD email campaigns, this can be omitted or use `type=email`.
For clearer client application code, we recommend including `type=email`, but we allow it to be omitted for backward compatibility.

Optional Path Parameters:

TIP: Leave the following parameters set to their default values and use the "prev" and "next" links returned in the response to get additional campaigns as needed.

`offset`: starts at 0 and indicates the record number for the response result set (defaults to 0).

`limit`: number of campaigns to return in the response (defaults to 200 and cannot exceed 200).

Request Method:

GET

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body – Required Properties

Not applicable

Response Notes

- The response contains an array of up to 200 EMD Email campaign objects per request. This API does not support fetching Classic Email campaigns, so the response will not contain Classic Email campaign objects.
- Each item in the array contains a campaign object, which includes the campaign ID, the campaign's other properties, and a links array containing the campaign object's related API operations (specific to the campaign name where applicable).
- The campaign properties returned in the response may vary, depending on what was configured for the campaign when it was created.
- Campaign operations links may or may not be supported by your level of access.
- The response also contains a links array for the "Get all Email campaigns" interface. This array contains the endpoints for obtaining the previous and next batch of campaign objects.

Sample Request Body

Not applicable

Sample Response Body

The endpoint `/rest/api/v1.3/campaigns?type=email&offset=0&limit=5` returned the following response (for brevity, the sample shows only the first and last campaign of the five returned.):


```
{
    "campaigns": [
        {
            "id": 3867,
            "name": "test Camp1",
            "folderName": "EmailCampaigns",
            "type": "EMAIL",
            "purpose": "PROMOTIONAL",
            "listName": "SB_2015",
            "htmlMessagePath": "/contentlibrary/r_folder/Test_Doc.htm",
            "enableLinkTracking": false,
            "enableExternalTracking": false,
            "subject": "testcamp1",
            "fromName": "shashiqa",
            "fromEmail": "test1@rsys.com",
            "replyToEmail": "test1@rsys.com",
            "useUTF8": false,
            "locale": "en",
            "trackHTMLOpens": true,
            "trackConversions": false,
            "sendTextIfHTMLUnknown": false,
            "unsubscribeOption": "OPTOUT_SINGLE_CLICK",
            "autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAST_RESPONSE",
            "autoCloseValue": "90",
            "links": [
                {
                    "rel": "self",
                    "href": "/rest/api/v1.3/campaigns/test Camp1",
                    "method": "GET"
```

```
                },
                {
                    "rel": "update",
                    "href": "/rest/api/v1.3/campaigns/test Camp1",
                    "method": "PUT"
                },
                {
                    "rel": "create",
                    "href": "/rest/api/v1.3/campaigns",
                    "method": "POST"
                }
            ]
        },
        .
        .
        .
        {
            "id": 23887,
            "name": "new_campaign",
            "folderName": "EmailCampaigns",
            "type": "EMAIL",
            "purpose": "PROMOTIONAL",
            "listName": "SB_2015",
            "htmlMessagePath": "/contentlibrary/old
content/sh_pgm_entrytracking/EntryTrackingDoc.htm",
            "enableLinkTracking": false,
            "enableExternalTracking": false,
            "subject": "hello world!",
            "fromName": "shashiqa",
            "fromEmail": "test1@rsys.com",
            "replyToEmail": "test1@rsys.com",
            "useUTF8": false,
            "locale": "en",
            "trackHTMLOpens": true,
            "trackConversions": false,
            "sendTextIfHTMLUnknown": false,
            "unsubscribeOption": "OPTOUT_SINGLE_CLICK",
            "autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAST_RESPONSE",
            "autoCloseValue": "90",
            "links": [
                {
                    "rel": "self",
                    "href": "/rest/api/v1.3/campaigns/new_campaign",
                    "method": "GET"
                },
                {
                    "rel": "update",
                    "href": "/rest/api/v1.3/campaigns/new_campaign",
                    "method": "PUT"
                },
                {
                    "rel": "create",
                    "href": "/rest/api/v1.3/campaigns",
                    "method": "POST"
                }
            ]
        }
    ],
    "links": [
        {
            "rel": "self",
            "href": "/rest/api/v1.3/campaigns?type=email&offset=0&limit=5",
            "method": "GET"
```

```
        },
        {
            "rel": "next",
            "href": "/rest/api/v1.3/campaigns?limit=5&offset=5&type=email",
            "method": "GET"
        }
    ]
}
```

Get all Push campaigns

Use this interface to get Push campaigns and their properties. For this API, “Push” includes Push, Rich Push, and In-app Message campaigns.

IMPORTANT: To use the Get All Push Campaigns API to obtain Push campaigns, your account must be enabled forPush. Otherwise using the call will result in an error (HTTPS status code 401 Unauthorized and error code API_DISABLED_FOR_USER).

Service URL:

```
/rest/api/v1.3/campaigns?type=push
```

Required Path Parameters:

`type`: For Push campaigns, you must include `type=push`.

Optional Path Parameters:

TIP: Leave the following parameters set to their default values and use the “prev” and “next” links returned in the response to get additional campaigns as needed.

`offset`: starts at 0 and indicates the record number for the response result set (defaults to 0).

`limit`: number of campaigns to return in the response (defaults to 200 and cannot exceed 200).

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body – Required Properties

Not applicable

Sample Request Body

Not applicable

Response Body Notes

- The response contains an array of up to 200 campaign objects per request.
- Each item in the array contains a campaign object, which includes the campaign ID and the campaign's other properties.
- The campaign properties returned in the response may vary, depending on what was configured for the campaign when it was created.
- The response also contains a links array for the "Get all Push campaigns" interface. This array contains the endpoints for obtaining the previous and next batch of campaign objects.
- The response body for Push includes some EMD campaign attributes, even though they are not available in the Push campaign workbook. These values are set either to "`false`" or to the account-level settings.

  Examples:

  ```
  "trackHTMLOpens": false,
  "trackConversions": false,
  "sendTextIfHTMLUnknown": false,
  "unsubscribeOption": "OPTOUT_SINGLE_CLICK",
  "autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAUNCH",
  "autoCloseValue": "30"
  ```

- By default, Campaign Purpose is "`Promotional`" for Push.
- The response body for Push includes a new property, **`channelList`**. The value is the App Channel List name used by the campaign, and this property is only returned when `type=push`.

Sample Response Body

The endpoint `/rest/api/v1.3/campaigns?type=push&offset=0&limit=5` returned the following response (for brevity, the sample shows only the first and last campaign of the five returned.):


```
{
    "campaigns": [
        {
            "id": 13587,
            "name": "MyPushCampaign1",
            "folderName": "PushCampaigns",
            "type": "PUSH",
            "purpose": "PROMOTIONAL",
            "listName": "R_Profile_List1",
            "channelList": "R_Profile_List1_APP",
            "textMessagePath": "/messagelibrary/push/13587/Message.txt",
            "enableLinkTracking": false,
            "enableExternalTracking": false,
            "useUTF8": false,
            "trackHTMLOpens": false,
            "trackConversions": false,
            "sendTextIfHTMLUnknown": false,
            "unsubscribeOption": "OPTOUT_SINGLE_CLICK",
            "autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAST_RESPONSE",
```

```
            "autoCloseValue": "90"
        },
        .
        .
        .
        {
            "id": 15647,
            "name": "PushCampaign5",
            "folderName": "MorePushCampaigns",
            "type": "PUSH",
            "purpose": "PROMOTIONAL",
            "listName": "R_Profile_List1",
            "channelList": "R_Profile_List1_APP",
            "textMessagePath": "/messagelibrary/push/15647/Message.txt",
            "enableLinkTracking": false,
            "enableExternalTracking": false,
            "useUTF8": false,
            "trackHTMLOpens": false,
            "trackConversions": false,
            "sendTextIfHTMLUnknown": false,
            "unsubscribeOption": "OPTOUT_SINGLE_CLICK",
            "autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAST_RESPONSE",
            "autoCloseValue": "90"
        }
    ],
    "links": [
        {
            "rel": "self",
            "href": "/rest/api/v1.3/campaigns?type=push&offset=0&limit=5",
            "method": "GET"
        },
        {
            "rel": "next",
            "href": "/rest/api/v1.3/campaigns?limit=5&offset=5&type=push",
            "method": "GET"
        }
    ]
}
```


Get all SMS campaigns

Use this interface to get SMS all campaigns and their properties.

IMPORTANT: To use the Get All Campaigns API to obtain SMS campaigns, your account must be enabled for SMS. Otherwise using the call will result in an error (HTTPS status code 401 Unauthorized and error code API_DISABLED_FOR_USER).

Service URL:

```
/rest/api/v1.3/campaigns?type=sms
```

Required Path Parameters:

`type`: For SMS campaigns, you must include `type=sms`.

Optional Path Parameters:

TIP: Leave the following parameters set to their default values and use the "prev" and "next" links returned in the response to get additional campaigns as needed.

`offset`: starts at 0 and indicates the record number for the response result set (defaults to 0).

`limit`: number of campaigns to return in the response (defaults to 200 and cannot exceed 200).

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body – Required Properties

Not applicable

Sample Request Body

Not applicable

Response Body Notes

- The response contains an array of up to 200 campaign objects per request.
- Each item in the array contains a campaign object, which includes the campaign ID and the campaign's other properties.
- The campaign properties returned in the response may vary, depending on what was configured for the campaign when it was created.
- The response also contains a links array for the "Get all campaigns" interface for SMS campaign objects. This array contains the endpoints for obtaining the previous and next batch of campaign objects.
- The response body for SMS includes some EMD campaign attributes, even though they are not available in the SMS campaign workbook. These values are set either to "`false`" or to the account-level settings.

  Examples:

```
"trackHTMLOpens": false,
"trackConversions": false,
"sendTextIfHTMLUnknown": false,
"unsubscribeOption": "OPTOUT_SINGLE_CLICK",
"autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAUNCH",
"autoCloseValue": "30"
```

Sample Response Body

The endpoint `/rest/api/v1.3/campaigns?type=sms&offset=0&limit=5` returned the following response (in this account, there were only two campaigns):


```
{
    "campaigns": [
        {
            "id": 1234,
            "name": "SMS_CAMP1",
            "folderName": "Folder1",
            "type": "SMS",
            "purpose": "PROMOTIONAL",
            "listName": "R_SMS_LIST1",
            "textMessagePath": "/messagelibrary/sms/13187/Message.txt",
            "enableLinkTracking": false,
            "enableExternalTracking": false,
            "useUTF8": false,
            "trackHTMLOpens": false,
            "trackConversions": false,
            "sendTextIfHTMLUnknown": false,
            "unsubscribeOption": "OPTOUT_SINGLE_CLICK",
            "autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAST_RESPONSE",
            "autoCloseValue": "90"
        },
        {
            "id": 12345,
            "name": "SMS_CAMP2",
            "folderName": "Folder2",
            "type": "SMS",
            "purpose": "PROMOTIONAL",
            "listName": "R_SMS_LIST2",
            "textMessagePath": "/messagelibrary/sms/13687/Message.txt",
            "enableLinkTracking": false,
            "enableExternalTracking": false,
            "campaignVariables": {
                "SMS_CARRIER": null,
                "SMS_USER_INPUT1": null,
                "SMS_USER_INPUT2": null,
                "SMS_USER_INPUT3": null,
                "SMS_USER_INPUT4": null,
                "SMS_USER_INPUT5": null,
                "SMS_CODE": null,
                "SMS_KEYWORD": " Default"
            },
            "useUTF8": false,
            "trackHTMLOpens": false,
            "trackConversions": false,
            "sendTextIfHTMLUnknown": false,
            "unsubscribeOption": "OPTOUT_SINGLE_CLICK",
            "autoCloseOption": "AUTO_CLOSE_X_DAYS_AFTER_LAST_RESPONSE",
            "autoCloseValue": "90"
        }
    ]
    "links": [
            {
```

```
                "rel": "self",
                "href": "/rest/api/v1.3/campaigns?type=sms&offset=0&limit=5",
                "method": "GET"
            },
            {
                "rel": "next",
                "href": "/rest/api/v1.3/campaigns?limit=5&offset=5&type=sms",
                "method": "GET"
            }
        ]

}
```


Triggering Email Messages

Responsys can send personalized email messages to email addresses.

Merge members into a profile list and trigger email messages to them

Use the following interface to merge members into a profile list and subsequently send them an email message.

REQUEST NOTES:

- You can send Responsys Email campaigns that already exist to up to 200 members of a profile list.
- For the list associated with the specified Email campaign, you must specify an array of record data that contain field names and their corresponding field values.
- Do not use system column names for the optional data, such as `EMAIL_ADDRESS_`. This may cause incorrect data to be processed, possibly resulting in skipped records and incorrect data being recorded in the Event table.
- To pass extended/accented characters in **`optionalData`** payload, they must be escaped as Unicode characters. For example, the euro symbol € is escaped as `\u20AC`, the yen symbol ¥ is escaped as `\u00A5`, an ü is escaped as `\u00FC`, an é is escaped as `\u00E9`, and the like. Otherwise, you may receive an `INVALID_REQUEST_CONTENT` error.

Please see the definition of merge rule parameters provided in section "Definitions of Rule Parameters for Merging Members into a Profile List" on page 116.

Service URL:

`/rest/api/v1.3/campaigns/{`*`campaignName`*`}/email`

Required Path Parameter:

`campaignName`

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body

```
{
   "mergeTriggerRecordData":{
      "mergeTriggerRecords":[
         {
            "fieldValues":[
               "mdi1234@foobar.com",
               "martiness"
            ],
            "optionalData":[
               { "name":"FIRST_NAME", "value":"jim_1" },
               { "name":"LAST_NAME", "value":"smith_1" }
            ]
         },
         {
            "fieldValues":[
               "mdi.1234@foobarcorp.com",
               "concord"
            ],
            "optionalData":[
               { "name":"FIRST_NAME", "value":"jim_2" },
               { "name":"LAST_NAME", "value":"smith_2" }
            ]
         }
      ],
      "fieldNames":[
         "EMAIL_ADDRESS_",
         "CITY_"
      ]
   },
   "mergeRule": {
      "htmlValue":"H",
      "matchColumnName1":"EMAIL_ADDRESS_",
      "matchColumnName2":null,
      "optoutValue":"O",
      "insertOnNoMatch":true,
      "defaultPermissionStatus":"OPTIN",
      "rejectRecordIfChannelEmpty":"E",
      "optinValue":"I",
      "updateOnMatch":"REPLACE_ALL",
      "textValue":"T",
      "matchOperator":"NONE"
   }
}
```

Sample Response:

The response returns a status for each record sent in the request. In this example, the first record was successfully merged and the email was sent to the recipient whose RIID is 72067. The second record was successfully merged, but the email was undeliverable.

```
       [
        {
      "errorMessage" : null,
      "success" : true,
      "recipientId" : 72067
     },
       {
      "errorMessage" :" RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability status
is undeliverable",
      "success" : false,
      "recipientId" : -1
     }
    ]
```

Merge members into a profile list and trigger email messages with attachments

Use the following interface to merge members into a profile list and subsequently send them an email message with one or more attached files.

IMPORTANT: This is a controlled feature. To have this API enabled for your account, contact your Customer Success Manager (CSM).

REQUEST NOTES:

- The API payload can trigger each batched recipient with their own attachment(s), or with no attachments.

  To send an email campaign to a recipient that does not include attachments, omit the `attachmentData` array from the recipient object. (If you send null values in the `attachmentData` array, the email for the recipient fails with the invalid attachment type error message.)

- Each attachment must be Base-64 encoded in the API payload. Any personalization of *attachments* must happen before your client application includes the attachment in the API payload.

- Default allowed file types are JPEG and JPG, PDF, and ICAL. Ensure that the extension is the correct type for the decoded file, otherwise the recipient will receive the attachment but not be able to open it.

- If attachments are already configured in the campaign that the API request will trigger, the email sent will include those attachments *plus* the attachments sent in the API request.
    - Each email can contain a maximum of 10 attachments total (campaign + API payload).
    - Total size of all attachments for a single email is limited to 500 KB.
    - Total number of emails sent in one hour is limited to 5000.
- Data attached by the API are scanned before the system creates the files on the server.

As with Merge Trigger Email, the following also apply to Merge Trigger Email with Attachments:

- You can send Responsys Email campaigns that already exist to up to 200 members of a profile list.
- For the list associated with the specified Email campaign, you must specify an array of record data that contain field names and their corresponding field values.
- Do not use system column names for the optional data, such as `EMAIL_ADDRESS_`. This may cause incorrect data to be processed, possibly resulting in skipped records and incorrect data being recorded in the Event table.
- To pass extended/accented characters in **`optionalData`** payload, they must be escaped as Unicode characters. For example, the euro symbol € is escaped as `\u20AC`, the yen symbol ¥ is escaped as `\u00A5`, an ü is escaped as `\u00FC`, an é is escaped as `\u00E9`, and the like. Otherwise, you may receive an `INVALID_REQUEST_CONTENT` error.

Please see the definition of merge rule parameters provided in section "Definitions of Rule Parameters for Merging Members into a Profile List" on page 116.

Service URL:

```
/rest/api/v1.3/campaigns/{campaignName}/emailAttachments
```

Required Path Parameter:

```
campaignName
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body


```
{
    "mergeTriggerRecordDataWithAttachments": {
      "mergeTriggerRecordsWithAttachments": [
        {
          "fieldValues": [
            "1",
            "mdi1124@barcorp.com"
          ],
          "optionalData": [
            {
              "name": "FIRST_NAME",
              "value": "Jane"
            },
            {
              "name": "LAST_NAME",
              "value": "Jones"
            }
          ],
          "attachmentData": [
            {
              "name": "Hello World.pdf",
              "value":
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```
            }
          ]
        },
        {
          "fieldValues": [
            "2",
            "mdi.1234@foobarcorp.com"
          ],
          "optionalData": [
            {
```

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              "value": "Jim"
            },
            {
              "name": "LAST_NAME",
              "value": "Smith"
            }
          ],
          "attachmentData": [
            {
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          ]
        },
        {
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```
iago8PC8xIDYgMCBSID4+CmVuZG9iago4IDAgb2JqCjw8L0Rpc3BsYXlEb2NUaXRsZSB0cnVlID4+CmVuZG9ia
go5IDAgb2JqCjw8L1N1YmplY3QgKP7/AFMAYQBtAHAAbABlACAAYQBiAG8AdQB0ACAAYQAgAHMAaQBtAHAAbAB
lACAAJwBoAGUAbABsAG8AIAB3AG8AcgBsAGQAJwAgAHUAcwBpAG4AZwAgAFAARABGACAAQwBsAG8AdwBuKSAvQ
3JlYXRvciAo/v8AbwByAGcALgBwAGQAZgBjAGwAbwB3AG4ALgBzAGEAbQBwAGwAZQBzAC4AYwBsAGkALgBIAGU
AbABsAG8AVwBvAHIAbABkAFMAYQBtAHAAbABlKSAvQXV0aG9yICj+/wBTAHQAZQBmAGEAbgBvACAAQwBoAGkAe
gB6AG8AbABpAG4AaSkgL0NyZWF0aW9uRGF0ZSAoRDoyMDExMDMwNTIwMDYxNSswMScwMCcpIC9Qcm9kdWNlciA
o/v8AUABEAEYAIABDAGwAbwB3AG4AIABmAG8AcgAgAEoAYQB2AGEAIAAwAC4AMQAuADApIC9UaXRsZSAo/v8AU
ABEAEYAIABDAGwAbwB3AG4AIAAtACAASABlAGwAbABvACAAdwBvAHIAbABkACAAcwBhAG0AcABsAGUpID4+CmV
uZG9iagp4cmVmCjAgMTAKMDAwMDAwMDAwMCA2NTUzNSBmDQowMDAwMDAwMDE1IDAwMDAwIG4NCjAwMDAwMDAwO
DggMDAwMDAgbg0KMDAwMDAwMDE4NyAwMDAwMCBuDQowMDAwMDAwMjE5IDAwMDAwIG4NCjAwMDAwMDAzNDkgMDA
wMDAgbg0KMDAwMDAwMDQxMSAwMDAwMCBuDQowMDAwMDAwNTEwIDAwMDAwIG4NCjAwMDAwMDA1MzkgMDAwMDAgb
g0KMDAwMDAwMDU4MSAwMDAwMCBuDQp0cmFpbGVyCjw8L1Jvb3QgMSAwIFIgL0luZm8gOSAwIFIgL1NpemUgMTA
gPj4Kc3RhcnR4cmVmCjEwMzcKJSVFT0Y="
            }
          ]
        }
      ],
      "fieldNames": [
        "CUSTOMER_ID_",
        "EMAIL_ADDRESS_"
      ]
    },
    "mergeRule": {
      "htmlValue": "H",
      "matchColumnName1": "EMAIL_ADDRESS_",
      "matchColumnName2": null,
      "optoutValue": "O",
      "optinValue": "I",
      "insertOnNoMatch": true,
      "defaultPermissionStatus": "OPTIN",
      "rejectRecordIfChannelEmpty": "E",
      "updateOnMatch": "REPLACE_ALL",
      "textValue": "T",
      "matchOperator": "NONE"
    }
  }
```


Response Notes

- A successful response will have an HTTPS code of 200 OK, and the response payload indicates the success or failure for each recipient.
- The following `errorMessage` values are specific to email attachment validations for individual recipients. In each case, `success : false` for the recipient and the email is not sent.
    - FAILURE: Number of attachments cannot exceed 10 for a recipient
      (10-attachment limit includes both API payload and attachments set for the email campaign by the marketer.)
    - FAILURE: Invalid attachment type, allowed types are png, jpg, jpeg, pdf, ical
      (System checks both file name and value. In the example above, **`bye.asd`** decodes to a PDF file, but because the file extension is incorrect in the file name, this attachment still causes a failure for the recipient.)

- FAILURE: The total size of the attachments cannot exceed 500 KB
  (500 KB size limit for attachments includes both API payload and attachments set for the email campaign by the marketer.)

- If the system detects a virus in one of the attachments, the entire request fails with an HTTPS code `400 Bad Request` and the errorCode `VIRUS_FOUND`. The detail returned in the response payload contains the name of the file containing the virus.

Sample Response

The response returns a status for each recipient record sent in the request payload. In this example:

- The first record was successfully merged and the email was sent to the recipient whose RIID is 72067.

- The second record was successfully merged, but the email was undeliverable because the recipient's email deliverability status in his Profile List record was set to "Undeliverable" in Responsys.

- The third record was successfully merged, but the email was not sent because the attachment had an incorrect file type (`Bye.asd`).

```
[
 {
  "errorMessage" : null,
  "success" : true,
  "recipientId" : 72067
 },
       {
  "errorMessage" :" RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability
status is undeliverable",
  "success" : false,
  "recipientId" : -1
 },
       {
  "errorMessage" :" FAILURE: Invalid attachment type, allowed types are png,
jpg, jpeg, pdf, ical",
  "success" : false,
  "recipientId" : 73159
 }
]
```

Trigger email message

Use this interface to trigger email messages to existing members of a profile list.

REQUEST NOTES:

- You can send Responsys Email campaigns that already exist to up to 200 members of a profile list.

- To pass extended/accented characters in **`optionalData`** payload, they must be escaped as Unicode characters. For example, the euro symbol € is escaped as `\u20AC`, the yen symbol ¥ is

escaped as `\u00A5`, an ü is escaped as `\u00FC`, an é is escaped as `\u00E9`, and the like. Otherwise, you may receive an `INVALID_REQUEST_CONTENT` error.

Service URL:

```
/rest/api/v1.3/campaigns/{campaignName}/email
```

Required Path Parameter:

```
campaignName
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

```
{
  "recipientData" : [{
   "recipient" : {
    "customerId" : "1",
    "emailAddress" : "foo.bar@oracle.com",
    "listName" : {
     "folderName" : "WS_REST_SAMPLE",
     "objectName" : "wsrest"
    },
    "recipientId" : null,
    "mobileNumber" : null,
    "emailFormat" : "HTML_FORMAT"
   },
   "optionalData" : [{
    "name" : "CUSTOM1",
    "value" : "c1a_value_new"
   }, {
    "name" : "CUSTOM2",
    "value" : "c2a_value_new"
   }
   ]
  }, {
   "recipient" : {
    "customerId" : "2",
    "emailAddress" : "baz.foo@oracle.com",
    "listName" : {
     "folderName" : "WS_REST_SAMPLE",
     "objectName" : "wsrest"
    },

    "recipientId" : null,
    "mobileNumber" : null,
    "emailFormat" : "TEXT_FORMAT"
   },
   "optionalData" : [{
    "name" : "CUSTOM1",
```

```
        "value" : "c1b_value_new"
       }, {
        "name" : "CUSTOM2",
        "value" : "c2b_value_new"
       }
      ]
     }
    ]
   }
```

Sample Response:

The response returns a status for each record sent in the request. In this example, email was sent successfully to the recipient whose RIID is 72067. For the second record, the trigger email action was not successful, because the recipient's deliverability status was undeliverable.

```
   [{
     "errorMessage" : null,
     "success" : true,
     "recipientId" : 72067
    }, {
     "errorMessage" :" RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability status
is undeliverable ",
     "success" : false,
     "recipientId" : -1
    }
      ]
```

Triggering SMS Messages

Responsys can send personalized SMS messages to mobile phone numbers.

Merge members into a profile list and trigger SMS messages to them

You can send Responsys SMS campaigns that already exist to up to 200 members of a profile list. The following allows merging members into a profile list and subsequently sending them an SMS message. For the list associated with the specified SMS campaign, you must specify an array of record data that contain field names and their corresponding field values.

REQUEST NOTES:

- **IMPORTANT:** For the MergeTriggerSMS API call to work, the Responsys user who creates the campaign must use the campaign template "Direct API Notification" and must activate it by clicking the Activate button on the Summary page of the SMS Campaign wizard. If the Responsys user chooses a different template, such as "Broadcast," then the system will return a "CAMPAIGN_IS_INVALID" response.
- For the list associated with the specified SMS campaign, you must specify an array of record data that contain field names and their corresponding field values.

- Do not use system column names for the optional data, such as `MOBILE_NUMBER_` or `MOBILE_COUNTRY_`. This may cause incorrect data to be processed, possibly resulting in skipped records and incorrect data being recorded in the SMS SENT Event table.

- To pass extended/accented characters in **`optionalData`** payload, they must be escaped as Unicode characters. For example, the euro symbol € is escaped as `\u20AC`, the yen symbol ¥ is escaped as `\u00A5`, an ü is escaped as `\u00FC`, an é is escaped as `\u00E9`, and the like. Otherwise, you may receive an `INVALID_REQUEST_CONTENT` error.

Please see the definition of merge rule parameters provided in section "Definitions of Rule Parameters for Merging Members into a Profile List" on page 116.

Service URL:

```
/rest/api/v1.3/campaigns/{campaignName}/sms
```

Required Path Parameter:

```
campaignName
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body

```
{
"mergeTriggerRecordData": {
   "mergeTriggerRecords": [
      {
          "fieldValues": ["1001", "foo.bar@oracle.com", "SAN BRUNO", "6505551212",
"US"],
          "optionalData": [
             { "name": "FIRST_NAME", "value": "jim_1" },
             { "name": "LAST_NAME", "value": "smith_1" }
          ]
      },
      {
          "fieldValues": ["1002", "baz.foo@oracle.com", "MILLBRAE", "6505551212",
"US"],
          "optionalData": [
             { "name": "FIRST_NAME", "value": "jim_2" },
             { "name": "LAST_NAME", "value": "smith_2" }
          ]
      }
   ],
   "fieldNames": [
      "CUSTOMER_ID_"
      "EMAIL_ADDRESS_",
      "CITY_",
      "MOBILE_NUMBER_"
      "MOBILE_COUNTRY_"
```

```
   ]
},
"mergeRule": {
   "htmlValue": "H",
   "matchColumnName1": "CUSTOMER_ID_",
   "matchColumnName2": null,
   "optoutValue": "O",
   "optinValue": "I",
   "insertOnNoMatch": true,
   "defaultPermissionStatus": "OPTIN",
   "rejectRecordIfChannelEmpty": "E",
   "updateOnMatch": "NO_UPDATE",
   "textValue": "T",
   "matchOperator": "NONE"
   }
}
```

Sample Response:

The response returns a status for each record sent in the request. In this example, the first record was successfully merged and the SMS message was sent to the recipient whose RIID is 72067. The second record was successfully merged, but the SMS message was undeliverable.

```
    [{
      "errorMessage" : null,
      "success" : true,
      "recipientId" : 72067
     },
       {
      "errorMessage" :" RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability status
is undeliverable ",
      "success" : false,
      "recipientId" : -1
     }
    ]
```

Triggering Mobile Push Messages

Responsys can deliver personalized messages to mobile apps using Push campaign messaging.

Trigger Push Messages

Use the following interface to trigger Push campaign messages to existing members of a Profile List and its corresponding App Channel List.

REQUEST NOTES:

- You can send push messages to existing Responsys Push campaigns for up to 200 members of a Profile List and its App Channel List.
- The request payload allows specifying one of the available Profile List attributes, so that you may uniquely identify the recipients of the push message.

- The Profile List attributes that can be specified are one of the following: `recipientId`, `customerId`, `emailAddress`, `mobileNumber`, `emailSHA256Hash` or `emailMD5Hash`.

  NOTE: In the request body, all `recipientData` must be present but the profile list attributes you are not using must be set to `null`.

- Use the `listType` attribute **`PROFILE`** when recipients need to be matched from Profile List (that is, known recipients).

  NOTES:
  - The Profile List members selected using these attributes are matched against the App Channel List to find the device IDs of all devices to trigger push messages.
  - You can send to all devices and apps that a mobile app user has installed by setting `"apiKey": null`.
  - You can send to a specific mobile app that a user has installed by specifying the apiKey value. Note that you may only use one `apiKey` value per recipient. This means that if a mobile app end user (recipient) has a single entry in a Profile List but has multiple entries in the App Channel List for different apps, the `apiKey` attribute restricts the push message to trigger for one of those apps.

- Use the `listType` attribute **`PUSH`** when recipients need to be matched from App Channel List (that is, unknown recipients).

  NOTES:
  - In the request body, all `recipientData` properties must be present but the Profile List attributes you are not using must be set to `null`.
  - When using `listType` of `PUSH`, the App Channel List attributes that you must specify are ***both*** **`deviceId`** and **`apiKey`**. Including both `apiKey` and `deviceId` ensures that push messages will only be triggered for devices that match the `apiKey`.

- You can use the **`optionalData`** attribute as part of the payload to customize the push message.
  - Do not use system-defined fields (for example, `MOBILE_NUMBER_`) for your optional data.
  - To pass extended/accented characters in **`optionalData`** payload, they must be escaped as Unicode characters. For example, the euro symbol € is escaped as `\u20AC`, the yen symbol ¥ is escaped as `\u00A5`, an ü is escaped as `\u00FC`, an é is escaped as `\u00E9`, and the like. Otherwise, you may receive an `INVALID_REQUEST_CONTENT` error.

Service URL:

```
/rest/api/v1.3/campaigns/{campaignName}/push
```

Required Path Parameter:

```
campaignName
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

The following Trigger Push Message request payload example is requesting that Responsys send a Push campaign message to two recipients:

- The first recipient is an unknown user. Unknown users are those for whom Responsys has device data in the App Channel List, but there is no match between the App Channel List record and a Profile List record. Because the user is not known, the recipient's `listType` is `PUSH`, `deviceId` contains recipient device's `deviceId`, and `apiKey` contains the `API_KEY` value of the mobile app installed on the recipient device.

- The second recipient is a known user. Known users are those for whom Responsys has a matching Profile List record for an App Channel List record. Because the user is known, the recipient's `listType` is `PROFILE`. Also, because the `API_KEY` for the mobile app specified in the `apiKey` property, the push message is being sent to that specific app. When the `apiKey` property is `null`, Responsys sends the push message to all device + app combinations that the known mobile app user has installed.

```
{
    "recipientData": [
        {
            "customerId": null,
            "emailAddress": null,
            "recipientId": null,
            "mobileNumber": null,
            "emailSHA256Hash": null,
            "emailMD5Hash": null,
            "deviceId": "<device Id value>",
            "apiKey": "<API Key value>",
            "listType": "PUSH",
            "optionalData": [
                {
                    "name": "CUSTOM1",
                    "value": "c1a_value_new"
                },
                {
                    "name": "CUSTOM2",
                    "value": "c2a_value_new"
                }
            ]
        },
        {
            "customerId": null,
            "emailAddress": "foo.bar@oracle.com",
            "recipientId": null,
            "mobileNumber": null,
            "emailSHA256Hash": null,
            "emailMD5Hash": null,
            "deviceId": null,
            "apiKey": "<API Key value>",
            "listType": "PROFILE",
```

```
                "optionalData": [
                    {
                        "name": "CUSTOM1",
                        "value": "c1a_value_new"
                    },
                    {
                        "name": "CUSTOM2",
                        "value": "c2a_value_new"
                    }
                ]
            }
        ]
}
```

RESPONSE NOTES:

- The `recipientId` displayed in the Trigger Push Message response body is the App Channel List RIID. (This differs from the API responses for sending to other channels, such as Email and SMS, which use the RIID from the Profile List.)
- The `success` results returned in the Trigger Push Message response body may vary from actual results, depending on the intended recipient's `CHANNEL_DELIVERABILITY_STATUS_` and `CHANNEL_PERMISSION_STATUS_` settings in the App Channel List. Consult the EventDB to verify whether the system sent the messages.
    - When `CHANNEL_DELIVERABILITY_STATUS_` is `D` (Deliverable) but `CHANNEL_PERMISSION_STATUS_` is `O` (OptOut):

      If the request was sent with `listType` of `PUSH`, the API response returns `"success":true` but in the EventDB, the record is shown as SKIPPED because the recipient is not found. This occurs whether a record is present in the Profile List or not.

      However, when request is sent with `listType` of `PROFILE` and a record *is* present in the Profile List, the API response sends `"success":false` and `"errorMessage" : "RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability status is undeliverable"`.
    - When `CHANNEL_DELIVERABILITY_STATUS_` is `U` (Undeliverable) and `CHANNEL_PERMISSION_STATUS_` is `O` (OptOut), the API response returns `"success":true` but in the EventDB, the record is shown as SKIPPED because the recipient is not found. This occurs regardless of the `listType` setting and whether or not there is a record present in the Profile List.

Sample Response in case of success:

The response returns information about each record sent in the request. In this example, the mobile push message was sent successfully to the recipient device whose App Channel List RIID is 72067. For the second record, the trigger push message action was not successful, because `listType` was set to `PROFILE`, a record was present in the Profile List, `CHANNEL_DELIVERABILITY_STATUS_` is `D`

(Deliverable) in the App Channel List, but the recipient's `CHANNEL_PERMISSION_STATUS_` in the App Channel List was set to `"O"` (OptOut).

```
    [{
      "errorMessage" : null,
      "success" : true,
      "recipientId" : 72067
     },{
      "errorMessage" : "RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability status
is undeliverable",
      "success" : false,
      "recipientId" : -1
     }
       ]
```

Sample Response in case of failure:

In this example, none of the recipients received the mobile push message, because the system could not find the campaign name sent in the request.

```
      {
         "type": "",
         "title": "Campaign not found",
         "errorCode": "CAMPAIGN_NOT_FOUND",
         "detail": "Campaign not found with name [campaignName]" ,
         "errorDetails": []
      }
```

Raising Custom Events for Cross-channel Marketing Programs

Responsys users can set up a Responsys Program orchestration to listen for one or more custom events. Custom events can start a Program orchestration or can be used in a Program orchestration event switch.

Get all custom events for an account

Use this interface to retrieve the names and descriptions of all custom events for an account.

Service URL:

```
/rest/api/v1.3/events
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:

RESPONSE NOTE: The response is a list of custom event names and their descriptions.

```
[
    {
        "eventName": "My_Test",
        "description": "This is a test custom event.",
        "eventType": "1"
    },
    {
        "eventName": "My_Test_Mobile",
        "description": "Test custom event that includes mobile RIIDs",
        "eventType": "1"
    },
    {
        "eventName": "Test3",
        "description": "Test event 3",
        "eventType": "1"
    }
]
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Custom event not found",
   "errorCode": "CUSTOM_EVENT_NOT_FOUND",
   "detail": "Account : acctname : does not have any custom events.",
   "errorDetails": []
}
```

Trigger a custom event

Use the following API to trigger a specific custom event. The Responsys Program orchestration will use the existing members of a profile list that are specified in the API request.

NOTES:

- A single request is limited to 200 recipients. If you need to trigger a custom event for more than 200 recipients, then you should submit multiple requests to trigger the custom event.
- Responsys requires Enactment Batching feature to be enabled for the account when using trigger custom event with mobile app campaigns in Program. Otherwise, the mobile app campaign events in the program will not be processed. However, there are some tradeoffs to consider before enabling the feature. Please refer to the topic "How Enactment Batching Affects Processing" on page 8 for more details.

  If you have the Real-time Events feature enabled for your account, and you need to send near-real-time messages based on the custom event, then ensure that the custom event you specify is of type **Real-time**. The Get Custom Events API does not return custom event types in its response, but you can view the custom events and their types by accessing the *Define Custom Event Types* page in the

Account administrator section of Responsys. Contact the Responsys Account Administrator for assistance if you do not have access. For more information, see the Defining Custom Event Types topic in the *Oracle Responsys Help Center.*

When Enactment Batching is used, the Responsys Account Admin must check the "Include Mobile App Channel RIIDs" check box for the custom event's definition. (In Responsys, this setting is found in **Accounts > Account Customization > Global Settings > Define custom event types**). With this option set, Responsys creates an enactment for each device associated with every Profile RIID; otherwise, the Push channel enactments will NOT enter the program and by extension, it will not send any push messages to the intended recipients. To avoid duplicate emails when email is part of the orchestration, marketers who orchestration the program must add a data switch immediately before the Email event.

- The Profile List parameters that can be specified are one of `recipientId`, `emailAddress`, `customerId`, or `mobileNumber`. The system processes the attributes in the above-listed order and accepts the first non-`null` value found.
- To pass extended/accented characters in **`optionalData`** payload, they must be escaped as Unicode characters. For example, the euro symbol € is escaped as `\u20AC`, the yen symbol ¥ is escaped as `\u00A5`, an ü is escaped as `\u00FC`, an é is escaped as `\u00E9`, and the like. Otherwise, you may receive an `INVALID_REQUEST_CONTENT` error.
- Sending duplicate names in the `recipientData` results in an error message (`MULTIPLE_RECIPIENTS_FOUND`).

Service URL:

```
/rest/api/v1.3/events/{eventName}
```

Required Path Parameter:

```
eventName – Name of the custom event defined in Responsys.
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

```
{
 "customEvent" : {
  "eventNumberDataMapping" : null,
  "eventDateDataMapping" : null,
  "eventStringDataMapping" : null
 },
 "recipientData" : [{
   "recipient" : {
    "customerId" : 1,
    "emailAddress" : null,
```

```
    "listName" : {
     "folderName" : "WS_REST_SAMPLE",
     "objectName" : "wsrest"
    },
    "recipientId" : null,
    "mobileNumber" : null,
    "emailFormat" : "HTML_FORMAT"
    },
    "optionalData" : [{
     "name" : "CUSTOM1",
     "value" : "value1"
    }
    ]
   }
  ]
 }
```

Sample Response:

```
[{
  "errorMessage" : null,
  "success" : true,
  "recipientId" : 72067
 }
]
```

Managing Campaign Launch Schedules (Email or Push)

The following interfaces can be used to manage existing Responsys Email campaign or Push campaign launch schedule objects.

NOTES:

- In the sections that follow, content applies to both Email and Push, unless specifically noted.
- A Responsys user must create the campaign in Responsys, and the campaign must not have validation errors.
- For Email campaigns, the interfaces apply for only Email Message Designer (EMD) campaigns; the interfaces do not support classic campaigns.
- For Push campaigns, your Push campaign must have the “From address” set in the Launch Options of the campaign workbook. If the “From address” is not set, the campaign will be *scheduled* successfully, but the campaign *launch* will fail.
- The APIs support Push campaigns only for the Mobile App channel. These APIs do not support In-app Message campaigns.

Schedule an Email or Push Campaign Launch

Use this interface to create a campaign launch schedule for an existing Email or Push campaign. You can schedule the campaign for immediate or future launch.

Service URL:

/rest/api/v1.3/campaigns/{*campaignName*}/schedule

Required Path Parameter:

campaignName

Request Method:

POST

Request Header :

Authorization=<*AUTH_TOKEN*>
Content-Type=application/json

Required Request Body Parameters:

These are the minimum required attributes for Email and all required for Push.

scheduleType (**ONCE** or **NOW**)
scheduledTime (Date in the format **YYYY-MM-DD HH:MM *xx***, where ***xx*** is AM or PM)
launchOptions:
progressEmailAddresses (one or more email addresses)
progressChunk (**CHUNK_10K**, **CHUNK_50K**, **CHUNK_100K**, **CHUNK_500K**, or **CHUNK_1M**)

Sample Requests and Responses

The following sections, "Email Examples" (page 85) and "Push Examples" (page 86), show the sample request and response bodies for Email campaigns and Push campaigns, respectively.

NOTES:

- A success response returns the launch ID number, the scheduling attributes sent in the request, and the campaign-specific links for related API calls.
- Error responses occur when:
  - Scheduled date and time are in the past
  - Campaign is already scheduled for launch at the requested date and time
  - Invalid campaign
  - Invalid parameters
  - API user has insufficient access to launch a campaign

Email Examples

Sample Request Body – Email (illustrating the proof launch parameters):

```
{
    "scheduleType": "ONCE",
    "scheduledTime": "2015-05-25 06:00 AM",
    "launchOptions": {
        "proofLaunch": true,
        "proofLaunchEmail": "someemail@a.com",
        "proofLaunchType": "LAUNCH_TO_ADDRESS",
         "recipientLimit": 3,
```

```
        "samplingNthSelection": 1,
        "samplingNthOffset": 1,
        "samplingNthInterval": 1,
        "progressEmailAddresses": [
            "email1@a.com",
            "email2@a.com"
        ],
        "progressChunk": "CHUNK_10K"
    }
}
```

Sample Response Body – Email:

```
        {
            "id": 1,
            "scheduleType": "ONCE",
            "scheduledTime": "2015-05-25 06:00 AM",
            "launchOptions": {
                "proofLaunch": true,
                "proofLaunchEmail": "someemail@a.com",
                "proofLaunchType": "LAUNCH_TO_ADDRESS,
                "recipientLimit": 3,
                "samplingNthSelection": 1,
                "samplingNthOffset": 1,
                "samplingNthInterval": 1,
                "progressEmailAddresses": [
                    "email1@a.com",
                    "email2@a.com"
                ],
                "progressChunk": "CHUNK_10K",
                "links": [
                    {
                        "rel": "self",
                        "href": "/rest/api/v1.3/campaigns/<campaignName>/schedule",
                        "method": "POST"
                    },
                    {
                        "rel": "getSchedule",
                        "href":
        "/rest/api/v1.3/campaigns/<campaign_name>/schedule/<id>",
                        "method": "GET"
                    },
                    {
                        "rel": "updateSchedule",
                        "href":
        "rest/api/v1.3/campaigns/<campaign_name>/schedule/<id>",
                        "method": "PUT"
                    },
                    {
                        "rel": "deleteSchedule",
                        "href":
        "rest/api/v1.3/campaigns/<campaign_name>/schedule/<id>",
                        "method": "DELETE"
                    }
                ]
            }
```

Push Examples

Sample Request Body– Push:

```
{
   "scheduleType": "ONCE",
```

```
   "scheduledTime": "2016-12-30 11:17 AM",
   "launchOptions": {
      "progressEmailAddresses": ["email1@ora.com", "email2@ora.com"],
      "progressChunk": "CHUNK_10K"
   }
}
```

Sample Response Body – Push:

```
{
  "id": 244797,
  "scheduleType": "ONCE",
  "scheduledTime": "2016-12-30 11:17 AM",
  "launchOptions": {
    "proofLaunch": false,
    "progressEmailAddresses": [
      "email1@ora.com",
      "email2@ora.com"
    ],
    "progressChunk": "CHUNK_10K"
  },
  "links": [
    {
      "rel": "self",
      "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule",
      "method": "POST"
    },
    {
      "rel": "deleteSchedule",
      "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule/244797",
      "method": "DELETE"
    },
    {
      "rel": "updateSchedule",
      "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule/244797",
      "method": "PUT"
    },
    {
      "rel": "getSchedule",
      "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule/244797",
      "method": "GET"
    }
  ]
}
```

Get a Launch Schedule for an Email or Push Campaign

Use this interface to get the schedule of an Email or Push campaign by using the campaign schedule ID that was returned from the schedule campaign API.

Service URL:

`/rest/api/v1.3/campaigns/{`*`campaignName`*`}/schedule/{`*`scheduleId`*`}`

Required Path Parameters:

`campaignName`

`scheduleId` (this can be obtained from the `id` parameter from the response to either the “Get All Launch Schedules for an Email or Push Campaign” task or the “Schedule an Email or Push Campaign Launch” task)

Request Method:

GET

Request Header:

Authorization=<*AUTH_TOKEN*>

Request Body:

None

Sample Response Body:

The following response example was for an Email campaign named **test** with a launch schedule ID of **1**.


```
{
    "id": 1,
    "scheduleType": "ONCE",
    "scheduledTime": "2017-01-25 06:00 AM",
    "launchOptions": {
        "proofLaunch": true,
        "proofLaunchEmail": "someemail@a.com",
        "proofLaunchType": "LAUNCH_TO_ADDRESS",
        "recipientLimit": 3,
        "samplingNthSelection": 1,
        "samplingNthOffset": 1,
        "samplingNthInterval": 1,
        "progressEmailAddresses": [
            "email1@a.com",
            "email2@a.com"
        ],
        "progressChunk": "CHUNK_10K",
        "links": [
            {
                "rel": "self",
                "href": "/rest/api/v1.3/campaigns/test/schedule/1",
                "method": "POST"
            },
            {
                "rel": "createSchedule",
                "href": "/rest/api/v1.3/campaigns/test/schedule",
                "method": "GET"
            },
            {
                "rel": "updateSchedule",
                "href": "rest/api/v1.3/campaigns/test/schedule/1",
                "method": "PUT"
            },
            {
                "rel": "deleteSchedule",
                "href": "rest/api/v1.3/campaigns/test/schedule/1",
                "method": "DELETE"
            }
        ]
    }
}
```

Get All Launch Schedules for an Email or Push Campaign

Use this interface to get all the schedules for an Email or a Push campaign, including all schedule IDs for the launches.

Service URL:

`/rest/api/v1.3/campaigns/{campaignName}/schedule`

Required Path Parameter:

`campaignName`

Request Method:

`GET`

Request Header:

`Authorization=<AUTH_TOKEN>`

Request Parameters:

```
offset: starts at 0 and indicates the record number for the response result set
limit: number of campaigns to return in the response (defaults to 200 and cannot
exceed 200)
```

Request Body:

`None`

Sample Response in case of success:

The following successful response is for a campaign named **testCampaign** that has two active launches. The active launch with Scheduled ID **307357** is of type **RECURRING** that occurs daily, starting on February 9, 2017 and ending on February 23, 2017. The active launch with Schedule ID **307377** is of type **ONCE** that will occur on February 3, 2017 at noon.


```
{
  "schedules": [
    {
      "id": 307357,
      "scheduleType": "RECURRING",
      "scheduledTime": "2017-02-09 10:00 AM",
      "recurringEndTime": "2017-02-23 12:00 AM",
      "recurringInterval": "DAILY",
      "launchOptions": {
        "proofLaunch": false
      },
      "links": [
        {
          "rel": "self",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule/307357",
          "method": "GET"
        },
        {
          "rel": "deleteSchedule",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule/307357",
          "method": "DELETE"
        },
        {
          "rel": "updateSchedule",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule/307357",
```

```
          "method": "PUT"
        },
        {
          "rel": "createSchedule",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule",
          "method": "POST"
        }
      ]
    },
    {
      "id": 307377,
      "scheduleType": "ONCE",
      "scheduledTime": "2017-02-03 12:00 PM",
      "launchOptions": {
        "proofLaunch": false
      },
      "links": [
        {
          "rel": "self",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule/307377",
          "method": "GET"
        },
        {
          "rel": "deleteSchedule",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule/307377",
          "method": "DELETE"
        },
        {
          "rel": "updateSchedule",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule/307377",
          "method": "PUT"
        },
        {
          "rel": "createSchedule",
          "href": "/rest/api/v1.3/campaigns/testCampaign/schedule",
          "method": "POST"
        }
      ]
    }
  ],
  "links": [
    {
      "rel": "self",
      "href": "/rest/api/v1.3/campaigns/testCampaign/schedule",
      "method": "GET"
    }
  ]
}
```


Sample Response in case of failure:


```
{

   "title": "Campaign not found",
   "errorCode": "CAMPAIGN_NOT_FOUND",
   "detail": "Campaign not found with name [campaignName]"
}
```

Update Email or Push Campaign LaunchSchedule

Use this interface to update the schedule of an existing Email or Push campaign, by using the schedule ID that was returned from schedule campaign API.

Service URL:

`/rest/api/v1.3/campaigns/{campaignName}/schedule/{scheduleID}`

Required Path Parameters:

`campaignName`

`scheduleId` (this can be obtained from the `id` parameter from response to either the "Get All Launch Schedules for an Email or Push Campaign" task or the "Schedule an Email or Push Campaign Launch" task)

Request Method:

`PUT`

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Required Body Parameters:

```
scheduleType (ONCE or NOW)
scheduledTime (Date in the format YYYY-MM-DD HH:MM AM or PM)
```

Sample Request Body:

In this example, we have a campaign launch with schedule ID of **244797** with a scheduled time of **2016-12-30 11:17 AM**. We want to change the launch time to **1:00 AM**. The campaign name and schedule ID are sent as part of the endpoint, and the request body contains the desired changes:

```
{
   "scheduleType": "ONCE",
   "scheduledTime": "2016-12-30 1:00 AM"
}
```

Sample Response Body:

The response to the above request returns the launch schedule information, showing the new `scheduledTime`.

```
{
  "id": 244797,
  "scheduleType": "ONCE",
  "scheduledTime": "2016-12-30 01:00 AM",
  "launchOptions": {
    "proofLaunch": false,
    "progressEmailAddresses": [
      "email1@ora.com",
      "email2@ora.com"
    ],
    "progressChunk": "CHUNK_10K"
  },
  "links": [
    {
      "rel": "self",
      "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule/244797",
```

```
        "method": "PUT"
      },
      {
        "rel": "deleteSchedule",
        "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule/244797",
        "method": "DELETE"
      },
      {
        "rel": "getSchedule",
        "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule/244797",
        "method": "GET"
      },
      {
        "rel": "createSchedule",
        "href": "/rest/api/v1.3/campaigns/JMP Test for API/schedule",
        "method": "POST"
      }
    ]
  }
```


Delete (Unschedule) an Email or Push campaign launch schedule

Use this interface to delete the launch schedule of an existing Email or Push campaign, by using the schedule ID returned from the campaign schedule.

Service URL:

`/rest/api/v1.3/campaigns/{campaignName}/schedule/{scheduleId}`

Required Path Parameters:

`campaignName`

`scheduleId` (this can be obtained from the `id` parameter from the response to either the "Get All Launch Schedules for an Email or Push Campaign" task or the "Schedule an Email or Push Campaign Launch" task)

Request Method:

`DELETE`

Request Header:

`Authorization=<AUTH_TOKEN>`

Request Body:

`None`

Sample Response Body:


```
{
"id": 1491,
  "scheduleType": "ONCE",
  "scheduledTime": "2015-11-30 01:00 AM",
  "launchOptions": {
    "proofLaunch": false
  },
  "links": [
    {
      "rel": "self",
      "href": "/rest/api/v1.3/campaigns/test/schedule/1491",
      "method": "DELETE"
```

```
    },
    {
      "rel": "updateSchedule",
      "href": "/rest/api/v1.3/campaigns/test/schedule/1491",
      "method": "PUT"
    },
    {
      "rel": "getSchedule",
      "href": "/rest/api/v1.3/campaigns/test/schedule/1491",
      "method": "GET"
    },
    {
      "rel": "createSchedule",
      "href": "/rest/api/v1.3/campaigns/test/schedule",
      "method": "POST"
    }
  ]
}
```

Managing Content Library Folders

The following interfaces are available to create a content library folder, delete a content library folder, and list the contents of a content library folder.

Create content library folder

Use this interface to create a content library folder in the location specified by the `folderPath` parameter in the request body.

Service URL:

```
/rest/api/v1.3/clFolders
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body:

```
 {
"folderPath" : "<folderPath>"
 }
```

Sample Response in case of success:

```
{
   "folderPath": "/contentlibrary/abn/f1/f2/f3",
   "links":    [
      {
         "rel": "self",
         "href": "/rest/api/v1.3/clFolders",
         "method": "POST"
      },
      {
         "rel": "listContentLibraryFolders",
```

```
            "href": "/rest/api/v1.3/clFolders/contentlibrary/abn/f1/f2/f3",
            "method": "GET"
         },
         {
            "rel": "deleteContentLibraryFolder",
            "href": "/rest/api/v1.3/clFolders/contentlibrary/abn/f1/f2/f3",
            "method": "DELETE"
         }
      ]
   }
```

Sample Response in case of failure:

```
   {
      "type": "",
      "title": "Folder already exists",
      "errorCode": "FOLDER_ALREADY_EXISTS",
      "detail": "/contentlibrary/abn/f1/f2/f3",
      "errorDetails": []
   }
```

Delete content library folder

Use this interface to delete a content library folder.

Service URL:

```
/rest/api/v1.3/clFolders/{folderPath}
```

Required Path Parameter:

```
folderPath
```

Request Method:

```
DELETE
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:

```
   {
      "folderPath": "/contentlibrary/abn/f1/f2/f3",
      "links":    [
         {
            "rel": "self",
            "href": "/rest/api/v1.3/clFolders/contentlibrary/abn/f1/f2/f3",
            "method": "DELETE"
         },
         {
            "rel": "createContentLibraryFolder",
            "href": "/rest/api/v1.3/clFolders",
            "method": "POST"
```

```
        }
    ]
}
```

Sample Response in case of failure:

```
{
    "type": "",
    "title": "Folder not found",
    "errorCode": "FOLDER_NOT_FOUND",
    "detail": "/contentlibrary/abn/f1/f2/f3",
    "errorDetails": []
}
```

List contents of a content library folder

Use this interface to list the contents of a content library folder.

Service URL:

```
/rest/api/v1.3/clFolders/{folderPath}?type=<objecttype>
```

Required Path Parameter:

```
folderPath – specify the path to the folder.
```

To get the objects at the root level (that is, for the entire account), replace the `folderPath` parameter with the value `contentlibrary`.

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Parameters:

```
type - Determines what content of a folder needs to be listed. Allowed values
       are 'all', 'folders', 'docs' or 'items'. Value defaults to 'all', so all
       contents of a folder need to be listed.
```

Request Body:

```
None
```

Sample Response in case of success:

For the requested folder at `/contentlibrary/jmptest`, where the type was either 'all' or not specified, the following response was returned. The response lists the paths for all of the folders, documents, and images contained in the requested folder, and it returns links for the APIs applicable for each object.

```
{
  "folders": [
    {
      "folderPath": "/contentlibrary/jmptest/images",
      "links": [
        {
          "rel": "createContentLibraryFolder",
          "href": "/rest/api/v1.1/clFolders",
          "method": "POST"
        },
        {
          "rel": "deleteContentLibraryFolder",
          "href": "/rest/api/v1.1/clFolders/contentlibrary/jmptest/images",
          "method": "DELETE"
        },
        {
          "rel": "listContentLibraryFolders",
          "href": "/rest/api/v1.1/clFolders/contentlibrary/jmptest/images",
          "method": "GET"
        }
      ]
    },
    {
      "folderPath": "/contentlibrary/jmptest/testdocs",
      "links": [
        {
          "rel": "createContentLibraryFolder",
          "href": "/rest/api/v1.1/clFolders",
          "method": "POST"
        },
        {
          "rel": "deleteContentLibraryFolder",
          "href": "/rest/api/v1.1/clFolders/contentlibrary/jmptest/testdocs",
          "method": "DELETE"
        },
        {
          "rel": "listContentLibraryFolders",
          "href": "/rest/api/v1.1/clFolders/contentlibrary/jmptest/testdocs",
          "method": "GET"
        }
      ]
    }
  ],
  "documents": [
    {
      "documentPath": "/contentlibrary/jmptest/newsletter.htm",
      "content": null,
      "links": [
        {
          "rel": "createDocument",
          "href": "/rest/api/v1.1/clDocs",
          "method": "POST"
        },
        {
          "rel": "getDocumentContent",
          "href":
"/rest/api/v1.1/clDocs/contentlibrary/jmptest/newsletter.htm",
          "method": "GET"
        },
        {
          "rel": "deleteDocument",
          "href":
"/rest/api/v1.1/clDocs/contentlibrary/jmptest/newsletter.htm",
```

```
          "method": "DELETE"
        },
        {
          "rel": "setDocumentContent",
          "href":
"/rest/api/v1.1/clDocs/contentlibrary/jmptest/newsletter.htm",
          "method": "POST"
        }
      ]
    },
    {
      "documentPath": "/contentlibrary/jmptest/testwithimage.htm",
      "content": null,
      "links": [
        {
          "rel": "createDocument",
          "href": "/rest/api/v1.1/clDocs",
          "method": "POST"
        },
        {
          "rel": "getDocumentContent",
          "href":
"/rest/api/v1.1/clDocs/contentlibrary/jmptest/testwithimage.htm",
          "method": "GET"
        },
        {
          "rel": "deleteDocument",
          "href":
"/rest/api/v1.1/clDocs/contentlibrary/jmptest/testwithimage.htm",
          "method": "DELETE"
        },
        {
          "rel": "setDocumentContent",
          "href":
"/rest/api/v1.1/clDocs/contentlibrary/jmptest/testwithimage.htm",
          "method": "POST"
        }
      ]
    }
  ],
  "items": [
    {
      "itemPath": "/contentlibrary/jmptest/dinosmall.jpg",
      "itemData": null,
      "links": [
        {
          "rel": "getContentLibraryItem",
          "href":
"/rest/api/v1.1/clItems/contentlibrary/jmptest/dinosmall.jpg",
          "method": "GET"
        },
        {
          "rel": "setContentLibraryItem",
          "href":
"/rest/api/v1.1/clItems/contentlibrary/jmptest/dinosmall.jpg",
          "method": "POST"
        },
        {
          "rel": "createContentLibraryItem",
          "href": "/rest/api/v1.1/clItems",
          "method": "POST"
        },
        {
```

```
            "rel": "deleteContentLibraryItem",
            "href":
 "/rest/api/v1.1/clItems/contentlibrary/jmptest/dinosmall.jpg",
            "method": "DELETE"
          }
        ]
      }
    ],
    "links": [
      {
        "rel": "self",
        "href": "/rest/api/v1.1/clFolders/contentlibrary/jmptest",
        "method": "GET"
      },
      {
        "rel": "deleteContentLibraryFolder",
        "href": "/rest/api/v1.1/clFolders/contentlibrary/jmptest",
        "method": "DELETE"
      }
    ]
  }
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "Type should be either folders, items or docs",
   "errorDetails": []
}
```


Managing Content Library Documents

The following interfaces are available to create a content library document, update a content library document, retrieve the contents of a content library document, and delete a content library document.

Create content library document

Use this interface to create a content library document.

REQUEST NOTE: The REST API will support ***only*** UTF-8 character encoding. Special characters in the document must be UTF-8 encoded. If that is not the case, then an error response is returned.

Service URL:

```
/rest/api/v1.3/clDocs
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample RequestBody:

```
{
    "documentPath": "/contentlibrary/abn/wsrest_cl.htm",
    "content": "<html dir=\"ltr\">\r\n <head>\r\n  <title><\/title>\r\n
 <\/head>\r\n <body>\r\n  <p>test document<\/p>\r\n  <p><img
 src=\"wsrest_cl.images/testcreate-1.png\" alt=\"\" /><\/p>\r\n
 <\/body>\r\n<\/html>\n\n"
}
```

Sample Response in case of success:

RESPONSE NOTE: Content Library saves files with an `.html` extension with an `.htm` extension. Therefore, the response will have links to the document with an `.htm` extension.

```
{
   "documentPath": "/contentlibrary/abn/wsrest_cl.htm",
   "content": null,
   "links":    [
            {
         "rel": "self",
         "href": "/rest/api/v1.3/clDocs",
         "method": "POST"
      },
            {
         "rel": "getDocumentContent",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "GET"
      },
            {
         "rel": "deleteDocument",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "DELETE"
      },
            {
         "rel": "setDocumentContent",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "POST"
      }
   ]
}
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Document already exists",
   "errorCode": "DOCUMENT_ALREADY_EXISTS",
   "detail": "/contentlibrary/abn/wsrest_cl.htm",
   "errorDetails": []
}
```

Retrieve contents of a content library document

Use this interface to retrieve the contents of a content library document.

Service URL:

```
/rest/api/v1.3/clDocs/{documentPath}
```

Required Path Parameter:

```
documentPath
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:

RESPONSE NOTE: The response contains the content of the document as it is saved in the content library. The Web Services API does not decode the content of the document before returning the response.


```
{
   "documentPath": "/contentlibrary/abn/wsrest_cl.htm",
   "content": "<html dir=\"ltr\">\r\n <head>\r\n  <title><\/title>\r\n
<\/head>\r\n <body>\r\n  <p>test document<\/p>\r\n  <p><img
src=\"wsrest_cl.images/testcreate-1.png\" alt=\"\" /><\/p>\r\n
<\/body>\r\n<\/html>\n\n\n",
   "links":    [
       {
         "rel": "self",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "GET"
      },
      {
         "rel": "deleteDocument",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "DELETE"
      },
      {
         "rel": "setDocumentContent",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "POST"
      },
      {
         "rel": "createDocument",
         "href": "/rest/api/v1.3/clDocs",
         "method": "POST"
      }
   ]
}
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Document not found",
   "errorCode": "DOCUMENT_NOT_FOUND",
   "detail": "/contentlibrary/abn/wsrest_cl.htm",
   "errorDetails": []
}
```

Update contents of a content library document

Use this interface to update the contents of a content library document.

Service URL:

```
/rest/api/v1.3/clDocs/{documentPath}
```

Required Path Parameter:

```
documentPath
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

```
{
   "documentPath" : "/contentlibrary/abn/wsrest_cl.htm",
   "content": "test documentersasefgwdfgsdfg"
}
```

Sample Response in case of success:

RESPONSE NOTE: The **`content`** attribute in the response is returned as `null` always. This is done to avoid returning large contents in the response.

```
{
   "documentPath": "/contentlibrary/abn/wsrest_cl.htm",
   "content": null,
   "links":    [
      {
         "rel": "self",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "POST"
      },
      {
         "rel": "getDocumentContent",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
         "method": "GET"
```

```
        },
        {
           "rel": "deleteDocument",
           "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
           "method": "DELETE"
        },
        {
           "rel": "createDocument",
           "href": "/rest/api/v1.3/clDocs",
           "method": "POST"
        }
     ]
  }
```


Sample Response in case of failure:


```
  {
     "type": "",
     "title": "Invalid request parameters",
     "errorCode": "INVALID_PARAMETER",
     "detail": "Document Path in the URI does not match Document Path in the
  request payload",
     "errorDetails": []
  }
```


Delete a content library document

Use this interface to delete a content library document.

Service URL:

```
/rest/api/v1.3/clDocs/{documentPath}
```

Required Path Parameter:

```
documentPath
```

Request Method:

```
DELETE
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:


```
  {
     "documentPath": "/contentlibrary/abn/wsrest_cl.htm",
     "content": null,
     "links":    [
       {
```

```
            "rel": "self",
            "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/wsrest_cl.htm",
            "method": "DELETE"
         },
         {
            "rel": "createDocument",
            "href": "/rest/api/v1.3/clDocs",
            "method": "POST"
         }
      ]
   }
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Document not found",
   "errorCode": "DOCUMENT_NOT_FOUND",
   "detail": "/contentlibrary/abn/wsrest_cl.htm",
   "errorDetails": []
}
```

Create a copy of a content library document

Use this interface to create a copy of a content library document.

Service URL:

```
/rest/api/v1.3/clDocs/{destinationDocumentPath}
```

Request Method:

```
PUT
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request JSON Body:

```
{
   "documentPath": "<sourceDocumentPath>"
}
```

Sample Response in case of success:

RESPONSE NOTE: The **`content`** attribute in the response is returned as null always. This is done to avoid returning large contents in the response.

```
{
   "documentPath": "/contentlibrary/abn/doc22.htm",
   "content": null,
   "links":    [
     {
         "rel": "self",
         "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/doc22.htm",
         "method": "PUT"
      },
```

```
        {
           "rel": "getDocumentContent",
           "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/doc22.htm",
           "method": "GET"
        },
        {
           "rel": "deleteDocument",
           "href": "/rest/api/v1.3/clDocs/contentlibrary/abn/doc22.htm",
           "method": "DELETE"
        }
     ]
  }
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Document not found",
   "errorCode": "DOCUMENT_NOT_FOUND",
   "detail": "Document not found:/contentlibrary/abn/wsrest_cl.htm",
   "errorDetails": []
}
```

Managing Content Library Media Files

The following interfaces are available to create a content library media file in a folder, update a content library media file, retrieve the contents of a content library media file, and delete a content library media file.

Create content library media file

Use this interface to create a content library media file in a content library folder.

Service URL:

```
/rest/api/v1.3/clItems
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Sample Request Body:

REQUEST NOTE: Ensure that the `itemData` value is a base64-encoded binary string with no extraneous hidden characters. When the `itemData` value contains hidden characters, such as such as carriage returns or line feeds, the response returns an HTTP code of 500 and the error details return only an ID number.

```
{
  "itemPath": "/contentlibrary/abn/testcreate_50.png",
```

```
    "itemData": "<base64 encoded binary string>"
}
```

Sample Response in case of success:

RESPONSE NOTE: The "**itemData**" attribute in the response is returned as null always. This is done to avoid returning large binary content in the response.


```
{
   "itemPath": "/contentlibrary/abn/testcreate_50.png",
   "itemData": null,
   "links":    [
      {
         "rel": "self",
         "href": "/rest/api/v1.3/clItems",
         "method": "POST"
      },
      {
         "rel": "getContentLibraryItem",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "GET"
      },
      {
         "rel": "deleteContentLibraryItem",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "DELETE"
      },
      {
         "rel": "setContentLibraryItem",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "POST"
      }
   ]
}
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "Document already exists",
   "errorCode": "DOCUMENT_ALREADY_EXISTS",
   "detail": "/contentlibrary/abn/testcreate_50.png",
   "errorDetails": []
}
```


Retrieve contents of a content library media file

Use this interface to retrieve the contents of a content library media file.

Service URL:

```
/rest/api/v1.3/clItems/{itemPath}
```

Required Path Parameter:

```
itemPath
```

Request Method:

```
GET
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:

RESPONSE NOTE: The **itemData** attribute in the response is a BASE64 encoded binary string representation of the media file content.


```
{
   "itemPath": "/contentlibrary/abn/testcreate_50.png",
   "itemData":
"iVBORw0KGgoAAAANSUhEUgAAAdwAAAFUCAIAAAABIhoXAAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8
YQUAAAAJcEhZcwAAFiUAABYlAUlSJPAAAA6XSURBVHhe7d0vVBtLG8BhZCQyEhmJRCKRkUgkEhkXiYy8M
hKJREYiI5GRkZHIfnO60zn7hT9N20z2TfZ5xD3NLoWEc/tjmMzOnv0AIAxRBghElAECEWWAQEQZIBBRBg
hElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBgh
ElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghE
lAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghEl
AECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElAECEWWAQEQZIBBRBghElA
ECEWWAQEQZIBBR7sDLy8v19fV8Ps+PAX4R5Q4Mh8Ozs7PBYJAfA/wiyh1IOU5RTqbTaT4E8JMod+Dh4aG
JcqLLQJsod+D9/f3m5iZX+exssVjkE/uz2WweHx8vLi7y1ziU9BXv7+9rvCLoCVHuRury9fV1CVl6mE/8
s9VqlbJYZkg6l17df//9l58c8Dui3Jn1en1+ft6UK2U0H/0HaXw6Ho+bTxiNNMOORLlL8/k8R+vsbLlc5
qN/Ln2ey8vL/Il+SSPx5+fn/BGHkl7Fw8PDV9MmJtDht0S5Y2VyOQ1y86GdNQVsFti13d3d/Uvi9+j9/T
09mfy0fjFqhm+IcsdSPXOrdh4sfzUaPT8/n0wm6/U6f1wYW29sFuklpBcS8AlDh0S5e2Ui+PvB8lctTpq
x5x7fLdy7T4fMbYbP0BDl7v12sPzV4rbhcHh068++r7NJZxDlEL4aLL+9vV1dXTWnimNs8aeen58/vj+Z
fgLl09BLohxCe7BcNipKeWovNz6ZFn/UnnS2JQg9J8pR3N7eliqlIWR7gJyOnPz4MXU5v9oz/0/Sa/4BR
LHZbD6dOE51fnt7yx900vILFmX6zT+AQF5fX9vzFX0YIBfT6TS/bFGm3/wDCKQdpqSfRb69vc1HoZdEOY
qtIidppNyHiYvJZJJf8NnZzc1N5NXWcACiHEK7yClMZXJ5NBqdcKS2FvwpMiSi3L2tIqcwtSeX7+7u8se
dlvl83p5AV2RoiHLHPha5OT6bzfLRs7PTu/64vT1er97PhN8S5S6l2uYyfTZULJf5pWylsXM+evzaRe7P
gj/YkSh3qcwdf/rLezpSrkIeDoensZtau8imLOAjUe5MimzTpvPz86/atFqtyt1J0qDy2BOmyPBbotyZ5
+fnJk/X19f50GcWi0X7Tb/jDZkiwy5EuTPlLb6Hh4d86AvtN/1Go9Exzi8rMuxIlDtT3sd7enrKh752f3
/ffHBjMpnkE8eg/UNFkeF7otyZMlm84/KDNNgsfyW5vr7ebDb5XGDp94D8jBUZdiDK3SgbKKfO5kM7WK/
XqWvNX0wuLi4+vVNJEKm/ZT/SJP1moMjwW6LcjfIb/V9csNe+3iQ1/fn5OZ+IJI3i01g+P8uzs/v7+3wC
+JYod6MMeOe/7jPyR1KI21MZk8kk1CB0tVq17/Pkgj3YnSh3IAW0rHJL/cpH/9Db29toNGo+SXJxcRFky
LxcLstFMell/t1PHegtUe7AYrFompXilQ/9lc1mU5ZwNNIAvNurltNLK0P49IeXl5d8AtiNKHegTArvZa
b16elpOBw2n7DRyWxG+oqPrTu9pqcU+U1ICEuUO1DmW/c14ZCGzO2t4pMDX2Myn8/bPxjSV//raRnoOVE
+tBTQnK6zs/0uNH57e2sveEgOMGReLBbt9/SSq6ur/b4u6BVRPrSy5UVqWT60V1vXmNQbMqefAe1F00ka
LJ/e1s9wYKJ8aHd3d03C6l0qvXWNSXJ7e5tyua/3ANPn37rsezAYTKfTUMvy4EiJ8qGV5WLpF/98qI6tI
XM9KdCnsdczRCDKB7VarZqQpaHlAcaVH4fM+5U+uSUWsF+ifFDl/k/f76G8X6mbs9lsPB7vceB8eXlpDT
LUIMoHVa71mE6n+RBAiygfzvv7exmr+q0f+JQoH05ZDDccDvMhgP8nyodTNheutxgOOHaifCCbzabsC2H
uAviKKB/I/NedQ0ejUT4E8IEoH0jZlcKO78A3RPkQ1ut1U+TE9mnAN0T5ENLouCnyIa8ZAY6RKB9C2dzS
JmrA90S5ure3t6bIg8HARsPA90S5unJPkPF4nA8BfEGUqyt7dQa52zQQmSjXVW5cfX5+bg944LdEua5yh
4693LgaOHmiXNfB7jMCnAZRrqvceD8/BviWWNTVFDnJjwG+JRZ1NUW+uLjIjwG+JcoVldukivLfmc/n19
fX6b/5MfSAKFdUonx5eZkPsbPpdNp89w5z528IQpQrWi6XTVbsQ/Snym2/k9vb23wUekCUKypXjtzc3OR
D7GC9Xpe7tKRvnWEyvSLKFb28vDRlubu7y4fYwcPDQ/N9u7y8VGT6RpQrKreAEuXdtYfJdguhh0S5ohJl
t6/eXfoB1nzTvDtKP4lyReWGI9PpNB/iay8vL6PRqPmOJYbJ9JMoV1QWdc1ms3yIzyyXy3Jj2Ya3RuktU
a6ovGHl8oevrNfrspFeYzgcumkWfSbKFZXpUVH+1OPj4/n5efMtSgaDwWQycccsek6UKypRtm/nlre3t6
urq+ab0xiPx6vVKp+GHhPliso8qSi3pQFyWfSWXF5e+v5AIcoVlSingWE+1G/r9bo9QE5pToHO54CfRLm
issDLL+bJfD5vzyCnOvtZBR+JckXlXlBphJgP9VJ6+Tc3N823IjFAhm+IckWlQflxL81mMwNk2J0o11I2
Ux6NRvlQz2xdoWeADLsQ5Vr6vG9nGgu35ysSA2TYkSjXUnYjur+/z4d6YLPZlOsYG67Qgz8iyrWUjS/68
zv71vTxwBV68OdEuZZyOd/T01M+dLq2po8TV+jB3xHlWsqVI6+vr/nQKfo4fewKPfgXolzLyS9SNn0MNY
hyLU2nTnWR8tPTk+ljqEGUqzjtRcqpv82ra5g+hj0S5SpOdZHy+/v77e1t89KS9CPH9DHslyhXcZKLlDe
bTXuPtzRANl8BeyfKVZzeIuXVatVe9Pbw8JBPAHslylWc2CLll9fX9tt6llhAPaJcxSktUk4/Vwa/bhSS
```

```
0vzy8pJPABWIchUns0h5Nps1LyRJL8qmQlCbKFdRopwfH6f2tSFXV1fe1oMDEOUqjj3KW0vfxuNxOpLPA
TWJchVHHeU0Ii5z4kmvth6FzolyFccb5dVqdXl52Tz5xL1C4MBEuYojjfJyuSzPfDAYzOfzfAI4FFGu4h
ijvFgsymJkS9+gK6JcxdFFeTablcXIw+EwDZnzCeCwRLmKI4ry1k1D0p9t+QYdEuUqjiLKn95z2mJk6JY
oVxE8yqm8bhoCMYlyFZGjvHXP6cRNQyAOUa4iZpQ/3nP65ubGdhYQiihXUYai+XHXlsvl1vRxqrNFbxCQ
KFeRyxcgyuv1+v7+Pj+bn9IPjNlslk8DwYhyFbl/XUf54/Txw8OD6WOITJSryAnsLsqpvFvzFaaP4SiIc
hU5hB1FebFYDIfD/AxMH8NREeUqcg67iPJkMslf+6f7+3tbIcMREeUqchEPG+XVanV1dZW/8M839J6fn/
M54EiIchW5iweM8tPTU/s9vVTnY789IPSTKFeR03iQKL+/v9/d3eWv99N0Os3ngGMjylXkOtaP8nK5bF+
kNxwOX19f8zngCIlyFbmRlaM8n8/LJsjJeDy2BhmOnShXUVpZb+u1l5eX5ksk6cvZ4w1OgyhXUTbGTLms
MZ+wXC5L90ejkatC4GSIchXv7+9lddpwONzvQojValWuDbm4uLDKAk6JKNfSTmcK9L6u4NhsNuWdvfPzc
2NkODGiXNFisSiTDHd3d//e5fYAPH3m9PnzCeBUiHJds9msaWiSRrj/OL88Ho/z5zo7c7UenCRRrm5rO+
PHx8d84g+176pnQ2Q4VaJ8CPP5vH0NdHqYT+xsOp3mv/xzT+R8FDg5onwg6/X6+vq6qepgMPijN+jaRR6
Px/kocIpE+XA2m025oepoNNrxfb92kW9ubva1igOISZQP6vX1tb0eIx/9miJD34jyobXXY3x/QxBFhh4S
5Q6UlW3D4fCrLYQUGfpJlDuwXq/b10lPJpOt5ioy9JYod+Pp6SlH96fmupLVajWfz29vb/NRRYb+EeXOb
N3h9CNFhh4S5Y5tXVdSKDL0kyh3b71epwSnEA8Gg/SHx8dHt3SC3hJlgEBEGSAQUQYIRJQBAhFlgEBEGS
AQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQ
YIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJ
QBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhF
JQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgEBEGSAQUQYIRJQBAhFlgDB+/PgfhFa/3C
47xMoAAAAASUVORK5CYII=",
   "links":    [
            {
         "rel": "self",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "GET"
      },
            {
         "rel": "deleteContentLibraryItem",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "DELETE"
      },
            {
         "rel": "setContentLibraryItem",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "POST"
      },
            {
         "rel": "createContentLibraryItem",
         "href": "/rest/api/v1.3/clItems",
         "method": "POST"
      }
   ]
}
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "Document not found",
   "errorCode": "DOCUMENT_NOT_FOUND",
   "detail": "/contentlibrary/abn/testcreate.png",
   "errorDetails": []
}
```

Update contents of a content library media file

Use this interface to update the contents of a content library media file.

REQUEST NOTE: Because the payload accepts binary content, the entire content of the existing media file will be replaced with the content provided in the request payload.

Service URL:

```
/rest/api/v1.3/clItems/{itemPath}
```

Required Path Parameter:

```
itemPath
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
   Content-Type=application/json
```

Sample Request JSON Body:

```
{
  "itemPath" : "/contentlibrary/abn/testcreate.png",
  "itemData": "<base64 encoded binary string>"
}
```

REQUEST NOTE: Ensure that the `itemData` value is a base64-encoded binary string with no extraneous hidden characters. When the `itemData` value contains hidden characters, such as such as carriage returns or line feeds, the response returns an HTTP code of 500 and the error details return only an ID number.

Sample Response in case of success:

RESPONSE NOTE: The **`itemData`** attribute in the response is returned as null always. This is done to avoid returning large binary content in the response.

```
{
   "itemPath": "/contentlibrary/abn/testcreate_50.png",
   "itemData": null,
   "links":    [
            {
         "rel": "self",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "POST"
      },
            {
         "rel": "getContentLibraryItem",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "GET"
      },
```

```
            {
         "rel": "deleteContentLibraryItem",
         "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
         "method": "DELETE"
      },
            {
         "rel": "createContentLibraryItem",
         "href": "/rest/api/v1.3/clItems",
         "method": "POST"
      }
   ]
}
```


Sample Response in case of failure:


```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "Item Path in the URI does not match Item Path in the request
payload",
   "errorDetails": []
}
```


Delete a content library media file

Use this interface to delete a content library media item.

Service URL:

```
/rest/api/v1.3/clItems/{itemPath}
```

Required Path Parameter:

```
itemPath
```

Request Method:

```
DELETE
```

Request Header:

```
Authorization=<AUTH_TOKEN>
```

Request Body:

```
None
```

Sample Response in case of success:


```
{
   "itemPath": "/contentlibrary/abn/testcreate_50.png",
   "itemData": null,
   "links":    [

            {
         "rel": "self",
```

```
            "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate_50.png",
            "method": "DELETE"
        },
            {
            "rel": "createContentLibraryItem",
            "href": "/rest/api/v1.3/clItems",
            "method": "POST"
        }
    ]
}
```

Sample Response in case of failure:

```
{
    "type": "",
    "title": "Document not found",
    "errorCode": "DOCUMENT_NOT_FOUND",
    "detail": "Document not found:/contentlibrary/abn/testcreate_50.png",
    "errorDetails": []
}
```

Create a copy of a content library media file

Use this interface to create a copy of a content library media file.

Service URL:

```
/rest/api/v1.3/clItems/{destinationItemPath}
```

Required Path Parameter:

```
destinationItemPath
```

Request Method:

```
PUT
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body:

```
{
    "itemPath" : "<sourceItemPath>"
}
```

Sample Response in case of success:

RESPONSE NOTE: The **`itemData`** attribute in the response is returned as null always. This is done to avoid returning large binary content in the response.

```
{
    "itemPath": "/contentlibrary/abn/copiedimage.png",
    "itemData": null,
    "links":    [
```

```
            {
            "rel": "self",
            "href": "/rest/api/v1.3/clItems/contentlibrary/abn/copiedimage.png",
            "method": "PUT"
        },

            {
            "rel": "getContentLibraryItem",
            "href": "/rest/api/v1.3/clItems/contentlibrary/abn/copiedimage.png",
            "method": "GET"
        },
            {
            "rel": "deleteContentLibraryItem",
            "href": "/rest/api/v1.3/clItems/contentlibrary/abn/copiedimage.png",
            "method": "DELETE"
        }
    ]
}
```


Sample Response in case of failure – Document not found:

The system sends the following response when it cannot find the source folder or file **or** the destination folder:


```
{
   "type": "",
   "title": "Document not found",
   "errorCode": "DOCUMENT_NOT_FOUND",
   "detail": "Document not found:/contentlibrary/abn/testcreate_50.png",
   "errorDetails": []
}
```


Sample Response in case of failure – File type mismatch:

For a request to copy a file `dinoSmall.jpg` (source file type JPEG) to `/contentlibrary/jmptest/testdocs/copyDinoSmall2.png` (destination file type PNG), the system returns the following response:


```
{
  "type": "",
  "title": "Invalid request parameters",
  "errorCode": "INVALID_PARAMETER",
  "detail": "Invalid destination
:/contentlibrary/jmptest/testdocs/copyDinoSmall2.png",
  "errorDetails": []
}
```

Managing Images of Content Library Documents

The following interfaces are to get images and set images in a content library document.

Set images in a content library document

Use this interface to set images in a content library document.

Service URL:

```
/rest/api/v1.3/clDocImages/{documentPath}
```

Required Path Parameter:

```
documentPath
```

Request Method:

```
POST
```

Request Header:

```
Authorization=<AUTH_TOKEN>
Content-Type=application/json
```

Request Body Parameters

`documentPath`	string	The complete path of the document, starting with `/contentlibrary`.
`imageData`	array	Images in the content library document. Contains `itemData` and `itemPath` for each image in the document.
`itemPath`	string	Name of the image in the content library document.
`itemData`	string (byte)	Base64 encoded binary string of the image content.

Sample Request JSON Body:

```
{
"documentPath" : "/contentlibrary/abn/wsrest_cl.htm",
"imageData": [
```

```
            {
              "itemPath": "testcreate.png",
              "itemData": "<base64 encoded binary string>"
            }
        ]
    }
```

Response Notes:

- A success response echoes back the document path you sent, and it returns `content` as `null`. It also returns the related endpoints for the given document path.
- Possible error responses occur when:
    - The `documentPath` is incorrect in the request (error codes include `FOLDER_NOT_FOUND` and `DOCUMENT_NOT_FOUND` and the details show the folder path without the file name). Verify that the folder and file names are spelled correctly and that they exist in the Content Library. To get the correct path, you can ask the Responsys Account Admin to send you a copy of the document path, which the admin can get from the Content Library.
    - The `documentPath` has incorrect format in the request (error code is `INVALID_PARAMETER` and the details show the folder path without the file name). Verify that you have included `/contentlibrary` at the start of the path, have spelled it correctly, and have included the document file name at the end of the path.

Sample Response in case of success:

```
{
   "documentPath": "/contentlibrary/abn/wsrest_cl.htm",
   "content": null,
   "links":    [
            {
          "rel": "self",
          "href": "/rest/api/v1.3/clDocImages/contentlibrary/abn/wsrest_cl.htm",
          "method": "POST"
      },
            {
          "rel": "getDocumentImages",
          "href": "/rest/api/v1.3/clDocImages/contentlibrary/abn/wsrest_cl.htm",
          "method": "GET"
      }
   ]
}
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Invalid request parameters",
   "errorCode": "INVALID_PARAMETER",
   "detail": "Document Path in the URI does not match Document Path in the
request payload",
   "errorDetails": []
}
```

Get images in a content library document

Use this interface to get images in a content library document.

Service URL:

`/rest/api/v1.3/clDocImages/{documentPath}`

Required Path Parameter:

`documentPath`

Request Method:

`GET`

Request Header:

`Authorization=<AUTH_TOKEN>`

Request Body:

`None`

Response Notes:

- A success response echoes back the document path requested, and it returns the path and Base64-encoded binary string content for each image in the document.
- Possible error responses occur when:
    - The `documentPath` is incorrect in the request (error codes include `FOLDER_NOT_FOUND` and `DOCUMENT_NOT_FOUND` and the details show the folder path without the file name). Verify that the folder and file names are spelled correctly and that they exist in the Content Library. To get the correct path, you can ask the Responsys Account Admin to send you a copy of the document path, which the admin can get from the Content Library.
    - The `documentPath` has incorrect format in the request (error code is `INVALID_PARAMETER` and the details show the folder path without the file name). Verify that you have included `/contentlibrary` at the start of the path, have spelled it correctly, and have included the document file name at the end of the path.
    - The document in your request does not contain images, or the path to the image is broken (error code is `IMAGES_NOT_FOUND`). Verify that you are requesting the images for the correct Content Library file. You can also retrieve the HTML document from the content library and examine it to determine if there are errors in the image tags, such as the wrong file extension, file name, or path to the image file.

Sample Response in case of success:

```
{
   "documentPath": "/contentlibrary/abn/wsrest_cl.htm",
   "imageData": [   {
      "itemPath": "/contentlibrary/abn/testcreate.png",
      "itemData": "<base64 encoded binary string>",
      "links":       [
                  {
            "rel": "getContentLibraryItem",
            "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate.png",
            "method": "GET"
         },
                  {
            "rel": "setContentLibraryItem",
            "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate.png",
            "method": "POST"
         },
                  {
            "rel": "deleteContentLibraryItem",
            "href": "/rest/api/v1.3/clItems/contentlibrary/abn/testcreate.png",
            "method": "DELETE"
         },
                  {
            "rel": "createContentLibraryItem",
            "href": "/rest/api/v1.3/clItems",
            "method": "POST"
         }
      ]
   }],
   "links":    [
            {
         "rel": "self",
         "href": "/rest/api/v1.3/clDocImages/contentlibrary/abn/wsrest_cl.htm",
         "method": "GET"
      },
            {
         "rel": "setDocumentImages",
         "href": "/rest/api/v1.3/clDocImages/contentlibrary/abn/wsrest_cl.htm",
         "method": "POST"
      }
   ]
}
```

Sample Response in case of failure:

```
{
   "type": "",
   "title": "Images not found",
   "errorCode": "IMAGES_NOT_FOUND",
   "detail": "There are no images in wsrest_cl.htm",
   "errorDetails": []
}
```

Responsys API Data Types

The Responsys API uses the standard data types defined below. These data types conform to their specifications in the World Wide Web Consortium's publication "XML Schema Part 2: Data Types" (available at http://www.w3.org/TR/xmlschema-2). Data types are used as a standardized way to define, send, receive, and interpret basic data types in the request/response messages exchanged between client applications and the Responsys API.

Type	Description
boolean	Boolean fields have one of these values: true (or 1), or false (or 0).
string	Character string data types contain text data. In some cases, strings are enumerated; that is, the text data values are restricted to a specific set of expected values.
int and long	Fields of these types contain integers (long ranges from 9223372036854775807 to -9223372036854775808 and int ranges from 2147483647 to -2147483648.
dateTime	Fields defined as dateTime data types handle date/time values (timestamps). Regular dateTime fields are full timestamps with a precision of one second.

Definitions of Rule Parameters for Merging Members into a Profile List

Name	Type	Description
insertOnNoMatch	boolean	Indicates what should be done for records where a match is not found (`true` = insert / `false` = no insert).
updateOnMatch	string (enum)	Controls how the existing record should be updated. Valid values: • `NO_UPDATE` • `REPLACE_ALL`

Name	Type	Description
matchColumnName1	string (enum)	First match column for determining whether an insert or update should occur. Valid values: • `RIID_` • `CUSTOMER_ID_` • `EMAIL_ADDRESS_` • `MOBILE_NUMBER_` • `EMAIL_MD5_HASH_` • `EMAIL_SHA256_HASH_`
matchColumnName2	string (enum)	Second match column for determining whether an insert or update should occur. (optional) Valid values: • `null` • `RIID_` • `CUSTOMER_ID_` • `EMAIL_ADDRESS_` • `MOBILE_NUMBER_` • `EMAIL_MD5_HASH_` • `EMAIL_SHA256_HASH_`
matchColumnName3	string	**DO NOT USE.** This attribute is no longer supported, but you may still see it in the response body of some APIs. For backward compatibility, it may be present in the request body but it must be set to `null`.
matchOperator	string (enum)	Controls how the Boolean expression involving the match columns is constructed to determine a match between the incoming records and existing records. Valid values: • `NONE` • `AND`

Name	Type	Description
optinValue	string	Value of incoming opt-in status data that represents an opt-in status. For example, "1" may represent an opt-in status.
optoutValue	string	Value of incoming opt-out status data that represents an opt-out status. For example, "0" may represent an opt-out status.
defaultPermissionStatus	string (enum)	This value must be specified as either OPTIN or OPTOUT and would be applied to all of the records contained in the API call. If this value is not specified explicitly, then it is set to OPTOUT. Valid values: • OPTIN • OPTOUT
htmlValue	string	Value of incoming preferred email format data. For example, "H" may represent a preference for HTML formatted email.
textValue	string	Value of incoming preferred email format data. For example, "T" may represent a preference for Text formatted email.
rejectRecordIfChannelEmpty	string	String containing comma-separated channel codes that if specified will result in record rejection when the channel address field is null. Channel codes are as follows: E - Email M - Mobile P – Postal address For example "E,M" would indicate that a record that has a null for Email or for Mobile Number value should be rejected. This parameter can also be set to null or to an empty string. By specifying null or an empty string, this validation will not be performed for any channel, unless overridden by the matchColumnName1 setting. When matchColumnName1 is set to EMAIL_ADDRESS_ or MOBILE_NUMBER_, then the null or empty string setting is effectively ignored for that channel. For example, if a merge rule has matchColumnName1 set to EMAIL_ADDRESS_, the system will reject a record without an email address, even if the rejectRecordIfChannelEmpty is set to null.

Handling Errors

The full response payload provides both the HTTP status code and – in the case of error responses—the response body contains details about the error, as shown in the table on the following pages. Even in the case of a successful HTTP status code, the response body may contain additional details about whether your request was successful for individual records sent, as described in “Individual Recipient Failure Errors” on page 127.

Request-level Failure Errors

If a REST API request fails, the following error information is returned instead of the successful response described in previous sections. The format and description of the error codes are shown below.

Error returned:

```
{
 "type" : "<JSON_SCHEMA_LINK_FOR_THIS_ERROR_FOR_FUTURE>",
 "title" : "<ERROR_TITLE>",
 "errorCode" : "<ERROR_CODE>",
 "detail" : "<DETAIL_MESSAGE>",
 "errorDetails" : <FOR_FUTURE_USE>
}
```

Error codes

ERROR_CODE	HTTP response code	Title
DUPLICATE_API_REQUEST	HttpStatus.BAD_REQUEST	Duplicate API request
API_DISABLED_FOR_USER	HttpStatus.UNAUTHORIZED	API disabled for user. NOTES: One meaning of this message is that the account lacks a required setting (for example, the account is not enabled for EMD when using the Get All Email Campaigns API).
INSUFFICIENT_ACCESS	HttpStatus.UNAUTHORIZED	Insufficient access
INVALID_USER_NAME_PASSWORD	HttpStatus.BAD_REQUEST	Invalid username or password

ERROR_CODE	HTTP response code	Title
INVALID_NUMBER	HttpStatus.BAD_REQUEST	Invalid number
INVALID_DATE	HttpStatus.BAD_REQUEST	Invalid date
INVALID_PARAMETER	HttpStatus.BAD_REQUEST	Invalid Request JSON Body
INVALID_FIELD_NAME	HttpStatus.BAD_REQUEST	Invalid field name
INVALID_OBJECT	HttpStatus.BAD_REQUEST	Invalid object
PASSWORD_LOCKOUT	HttpStatus.UNAUTHORIZED	Password locked
PASSWORD_EXPIRED	HttpStatus.UNAUTHORIZED	Password expired
API_LIMIT_EXCEEDED	HttpStatus.BAD_REQUEST	Request limit exceeded
API_BLOCKED	HttpStatus.BAD_REQUEST	The <*function_name*> is currently not available to this user.
CAMPAIGN_NOT_FOUND	HttpStatus.NOT_FOUND	Campaign not found
CAMPAIGN_ALREADY_EXISTS	HttpStatus.BAD_REQUEST	Campaign already exists
RECIPIENT_LIMIT_EXCEEDED	HttpStatus.BAD_REQUEST	Recipient limit exceeded
MAX_ATTACHMENT_SIZE_EXCEEDED	HttpStatus.BAD_REQUEST	Attachment size exceeded
CAMPAIGN_NOT_LISTENING	HttpStatus.BAD_REQUEST	Campaign not listening
CAMPAIGN_IS_INVALID	HttpStatus.BAD_REQUEST	Not a valid campaign
MOBILE_CAMPAIGN_DISABLED_FOR_USER	HttpStatus.BAD_REQUEST	Campaign disabled for user

ERROR_CODE	HTTP response code	Title
FOLDER_NOT_FOUND	HttpStatus.NOT_FOUND	Folder not found
FOLDER_ALREADY_EXISTS	HttpStatus.BAD_REQUEST	Folder already exists
NO_CAMPAIGNS_IN_THIS_FOLDER	HttpStatus.BAD_REQUEST	No campaigns for this folder
NO_OBJECTS_IN_THIS_FOLDER	HttpStatus.BAD_REQUEST	No objects in this folder
LIST_NOT_FOUND	HttpStatus.NOT_FOUND	List not found
LIST_ALREADY_EXISTS	HttpStatus.BAD_REQUEST	List already exists
TABLE_NOT_FOUND	HttpStatus.NOT_FOUND	Table not found
CUSTOM_EVENT_NOT_FOUND	HttpStatus.NOT_FOUND	Custom event not found
RECORD_LIMIT_EXCEEDED	HttpStatus.BAD_REQUEST	Record limit exceeded
RECORD_NOT_FOUND	HttpStatus.NOT_FOUND	Record not found
OBJECT_NOT_FOUND	HttpStatus.NOT_FOUND	Object not found
OBJECT_ALREADY_EXISTS	HttpStatus.BAD_REQUEST	Object already exists
OPERATION_NOT_SUPPORTED	HttpStatus.FORBIDDEN	Operation not supported
MULTIPLE_OBJECTS_FOUND	HttpStatus.BAD_REQUEST	Multiple objects found
DOCUMENT_NOT_FOUND	HttpStatus.NOT_FOUND	Document not found
DOCUMENT_ALREADY_EXISTS	HttpStatus.BAD_REQUEST	Document already exists

ERROR_CODE	HTTP response code	Title
IMAGES_NOT_FOUND	HttpStatus.NOT_FOUND	Images not found
UNEXPECTED_EXCEPTION	HttpStatus.INTERNAL_SERVER_ERROR	Unexpected exception
UNRECOVERABLE_EXCEPTION	HttpStatus.INTERNAL_SERVER_ERROR	Unrecoverable exception
INVALID_AUTHENTICATION_OPTION	HttpStatus.BAD_REQUEST	Invalid authentication option
AUTHENTICATION_FAILED	HttpStatus.UNAUTHORIZED	Authentication failed
CLIENT_CERTIFICATE_EXPIRED	HttpStatus.UNAUTHORIZED	Client certificate expired
CLIENT_CERTIFICATE_NOT_YET_VALID	HttpStatus.UNAUTHORIZED	Client certificate not valid
CLIENT_CERTIFICATE_NOT_FOUND	HttpStatus.UNAUTHORIZED	Client certificate not found
SERVER_CERTIFICATE_EXPIRED	HttpStatus.UNAUTHORIZED	Server certificate expired
SERVER_CERTIFICATE_NOT_YET_VALID	HttpStatus.UNAUTHORIZED	Server certificate not valid yet
SERVER_CERTIFICATE_NOT_FOUND	HttpStatus.UNAUTHORIZED	Server certificate not found
SERVICE_UNAVAILABLE	HttpStatus.SERVICE_UNAVAILABLE	Service unavailable
TOKEN_EXPIRED	HttpStatus.UNAUTHORIZED	Authentication token expired
METHOD_NOT_SUPPORTED	HttpStatus.METHOD_NOT_ALLOWED	Method not supported
RESOURCE_NOT_FOUND	HttpStatus.NOT_FOUND	Resource not found

ERROR_CODE	HTTP response code	Title
INVALID_REQUEST_CONTENT	HttpStatus.BAD_REQUEST	Invalid request content
INVALID_TOKEN	HttpStatus.UNAUTHORIZED	Not a valid token
PRIVATE_KEY_NOT_FOUND	HttpStatus.UNAUTHORIZED	Private key not found
NO_RECIPIENT_FOUND	HttpStatus.NOT_FOUND	No recipient found
MULTIPLE_RECIPIENTS_FOUND	HttpStatus.BAD_REQUEST	Multiple recipients found
RECIPIENT_STATUS_UNDELIVERABLE	HttpStatus.OK	Recipient status undeliverable
PROFILE_LIST_NOT_FOUND	HttpStatus.NOT_FOUND	Profile list not found
PROFILE_LIST_NOT_FOUND_IN_FOLDER	HttpStatus.NOT_FOUND	Profile list not found in folder
USER_BLOCKED	HttpStatus.UNAUTHORIZED	User is blocked
LOGINS_DISABLED	HttpStatus.UNAUTHORIZED	Login is disabled
INVALID_AUTH_OPTION	HttpStatus.UNAUTHORIZED	Not a valid authentication option
SERVER_CHALLENGES_DO_NOT_MATCH	HttpStatus.UNAUTHORIZED	Server challenge did not match
INACTIVE_ACCOUNT	HttpStatus.UNAUTHORIZED	Account is not active
MAX_LOGIN_FAILURES_EXCEEDED	HttpStatus.UNAUTHORIZED	Maximum login failure exceeded

ERROR_CODE	HTTP response code	Title
LOGIN_BLOCKED_TEMPORARILY	HttpStatus.UNAUTHORIZED	Login is blocked temporarily
ACCOUNT_SUSPENDED	HttpStatus.UNAUTHORIZED	Account is in suspended state
LOGIN_BLOCKED_INVALID_IPRANGE	HttpStatus.UNAUTHORIZED	Not a valid client IP range
WS_ARG_DISABLED	HttpStatus.UNAUTHORIZED	Web service Account Resource Group (ARG) is disabled. Retry later. If the error message persists, create a My Oracle Support Service Request (SR).
CAMPAIGN_IS_INVALID	HttpStatus.BAD_REQUEST	Campaign name is invalid
CAMPAIGN_NOT_FOUND	HttpStatus.NOT_FOUND	Campaign not found
UNABLE_TO_CREATE_CAMPAIGN	HttpStatus.INTERNAL_SERVER_ERROR	Unable to create campaign
MOBILE_CAMPAIGN_DISABLED_FOR_USER	HttpStatus.BAD_REQUEST	Campaign disabled for user
CAMPAIGN_ALREADY_EXISTS	HttpStatus.BAD_REQUEST	Campaign already exists
PATH_NOT_VALID	HttpStatus.BAD_REQUEST	Object path not valid.
CAMPAIGN_SCHEDULE_DUPLICATE	HttpStatus.BAD_REQUEST	Campaign is already scheduled for launch
CURRENT_CAMPAIGN_SCHEDULE_AT_SAME_TIME	HttpStatus.BAD_REQUEST	This Schedule is already scheduled to run at specified time
CAMPAIGN_LAUNCH_SCHEDULE_DATE_PAST	HttpStatus.BAD_REQUEST	Campaign launch date is past

ERROR_CODE	HTTP response code	Title
INVALID_CAMPAIGN_SCHEDULE_TYPE_CHANGE	HttpStatus.BAD_REQUEST	Campaign Schedule Type cannot be changed
CAMPAIGN_SCHEDULE_NOT_FOUND	HttpStatus.BAD_REQUEST	Campaign Schedule not found
CAMPAIGN_NAME_NOT_VALID	HttpStatus.BAD_REQUEST	Campaign Name is not valid
INVALID_CAMPAIGN_SCHEDULE_TYPE_CHANGE	HttpStatus.BAD_REQUEST	Campaign Schedule Type cannot be changed
INVALID_CAMPAIGN_SCHEDULE_TYPE	HttpStatus.BAD_REQUEST	Invalid Campaign Schedule Type
CAMPAIGN_LAUNCH_ALREADY_HAPPENED	HttpStatus.BAD_REQUEST	Campaign launch has already occurred.
INVALID_CAMPAIGN_SCHEDULE_TIME	HttpStatus.BAD_REQUEST	Invalid Schedule Time.
API_NOT_ALLOWED_IN_SECONDARY	HttpStatus.UNAUTHORIZED	API is not allowed in secondary. Non HATM endpoint should be used
SALESFORCE_CAMPAIGN_ID_NOT_FOUND	HttpStatus.NOT_FOUND	Salesforce campaign id not found.
OFFSET_NOT_VALID	HttpStatus.BAD_REQUEST	Offset is not valid.
LIMIT_NOT_VALID	HttpStatus.BAD_REQUEST	Limit is not valid.
INVALID_PROOF_LAUNCH_TYPE	HttpStatus.BAD_REQUEST	Invalid Proof Launch Type.
PUSH_LIST_NOT_FOUND	HttpStatus.NOT_FOUND	Push list not found

ERROR_CODE	HTTP response code	Title
DUPLICATE_DATA_SOURCE	HttpStatus.BAD_REQUEST	Duplicate data source
DATA_SOURCE_NOT_FOUND	HttpStatus.NOT_FOUND	Data source not found
CAMPAIGN_IS_INVALID	HttpStatus.BAD_REQUEST	Campaign name is invalid.
CAMPAIGN_NOT_FOUND	HttpStatus.NOT_FOUND	Campaign not found
UNABLE_TO_CREATE_CAMPAIGN	HttpStatus.INTERNAL_SERVER_ERROR	Unable to create campaign
MOBILE_CAMPAIGN_DISABLED_FOR_USER	HttpStatus.BAD_REQUEST	Campaign disabled for user
CAMPAIGN_ALREADY_EXISTS	HttpStatus.BAD_REQUEST	Campaign already exists
PATH_NOT_VALID	HttpStatus.BAD_REQUEST	Object path not valid.
CAMPAIGN_SCHEDULE_DUPLICATE	HttpStatus.BAD_REQUEST	Campaign is already scheduled for launch
CURRENT_CAMPAIGN_SCHEDULE_AT_SAME_TIME	HttpStatus.BAD_REQUEST	This Schedule is already scheduled to run at specified time
CAMPAIGN_LAUNCH_SCHEDULE_DATE_PAST	HttpStatus.BAD_REQUEST	Campaign launch date is past
INVALID_CAMPAIGN_SCHEDULE_TYPE_CHANGE	HttpStatus.BAD_REQUEST	Campaign Schedule Type cannot be changed
CAMPAIGN_SCHEDULE_NOT_FOUND	HttpStatus.BAD_REQUEST	Campaign Schedule not found

ERROR_CODE	HTTP response code	Title
CAMPAIGN_NAME_NOT_VALID	HttpStatus.BAD_REQUEST	Campaign Name is not valid
INVALID_CAMPAIGN_SCHEDULE_TYPE_CHANGE	HttpStatus.BAD_REQUEST	Campaign Schedule Type cannot be changed
INVALID_CAMPAIGN_SCHEDULE_TYPE	HttpStatus.BAD_REQUEST	Invalid Campaign Schedule Type
CAMPAIGN_LAUNCH_ALREADY_HAPPENED	HttpStatus.BAD_REQUEST	Campaign launch has already occurred.
INVALID_CAMPAIGN_SCHEDULE_TIME	HttpStatus.BAD_REQUEST	Invalid Schedule Time
VIRUS_FOUND	HttpStatus.BAD_REQUEST	Virus found in file NOTES: The **detail** property shows the name of the file in which the virus was found.

Individual Recipient Failure Errors

When the system has successfully received API requests that trigger actions for the recipients, it will return a successful HTTPS status code of `200 OK`. API requests that fall into this category are the "Merge Trigger" and the "Trigger" APIs.

However, the triggered action might have mixed results. The response payload contains an array of messages about the success or failure for each individual recipient.

A success message for the recipient will look like this:

```
{
      "errorMessage" : null,
      "success" : true,
      "recipientId" : 72067
}
```

In a failure message, `success` is **`false`** and `errorMessage` will be one of the following. The response may or may not include the `recipientId` – if it is not possible to do so, then the `recipientId` will be `-1`.

errorMessage	Notes
`RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability status is undeliverable`	The campaign is not sent to the recipient, because the recipient's deliverability status in the Profile List is set to undeliverable. Usually returns `recipientId` of `-1`.
`FAILURE: Number of attachments cannot exceed 10 for a recipient`	10-attachment limit includes both API payload and attachments set for the email campaign by the marketer.
`FAILURE: Invalid attachment type, allowed types are png, jpg, jpeg, pdf, ical`	The API accepts only Base64-encoded files of type PNG, JPG or JPEG, PDF, or ICAL.
`FAILURE: The total size of the attachments cannot exceed 500 KB`	500 KB size limit for attachments includes both API payload and attachments set for the email campaign by the marketer.

Gateway server error when payload exceeds the maximum allowed size

If your payload exceeds the maximum allowed size, the gateway server will terminate the connection with the client application, and the client application will receive a `SocketException` error. Ensure that your payload size is 10 MB or less. One way to reduce the request payload size is by referencing HTML content instead of sending it as part of the payload.

Handling System Outages

Your client application must be designed to handle system outages, such as:

- **Scheduled outages**: Oracle Responsys undergoes maintenance downtimes on a monthly or bi-monthly schedule. During scheduled maintenance downtime, Oracle stops the Web Services server. Unless your client application is using an Automatic Failover for Transactional Messaging (AFTM)[1] account, all Web Services API requests will fail during the maintenance period when your account's system is out of service.
- **Unscheduled outages**: All Responsys users receive an "Oracle Responsys Customer Bulletin" when there are system issues. These might be due to performance issues as well as unscheduled system outages.

During a system outage, attempts to make API calls will result in your receiving an HTTP response error similar to the following:

```
Remote Exception : Transport error: 503 Error: Service Temporarily
Unavailable
```

When it detects this error response, your client application code should take appropriate actions, which may include alerts to support staff, integration job queuing (because the Responsys system does not maintain a queue), and/or scheduled re-tries.

Where to Find System Status Information

You can view system status for each system on Topliners at the following locations. You do not need to be a member of the Responsys Insiders group to view the system status information.

- Responsys Interact 2 System Status
- Responsys Interact 5 System Status
- Responsys SMS Customers System Status
- Responsys Push Customers System Status
- Responsys Legacy System (version 5) Customers System Status

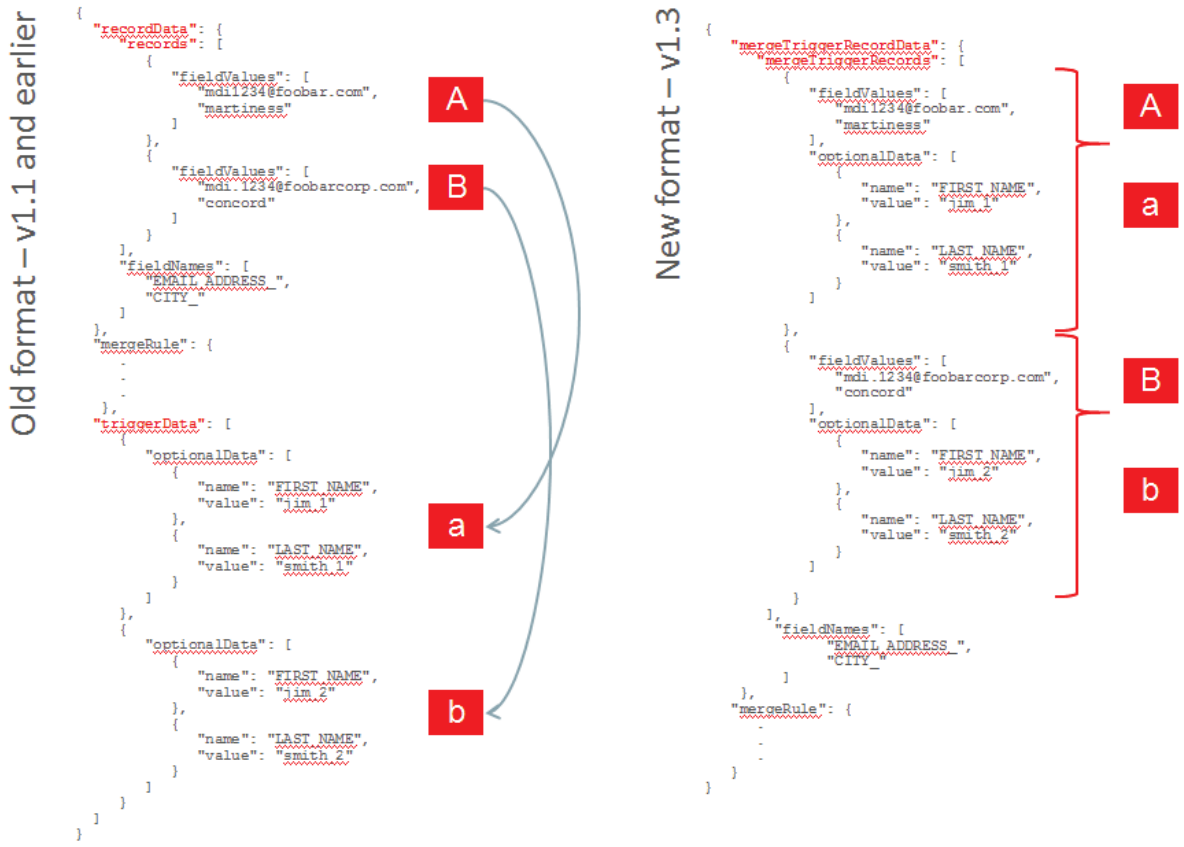
[1] AFTM is formerly known as High Availability Transactional Messaging (HATM)

Migration Notes

Version 1.1 to 1.3

This section contains information about the differences between the v1.1 and v1.3 API.

API Task	Version 1.1 API	Version 1.3 API
Merge Trigger Email and Merge Trigger SMS	`records` array and `triggerData` array grouped the `field` values and `optional data` values separately, making it more difficult to ensure that the optional data was matched to the correct records, as shown on the next page.	New array, `mergeTriggerRecords`, now groups the field values and optional data in a pair-wise fashion, as shown on the next page.
NOTE: Using the new format with the v1.1 endpoint results in a 500 error code (Internal Server Error). Using the old format with the v1.3 endpoint results in a 400 error code (Bad Request).		

API Task	Version 1.1 API	Version 1.3 API
		
Manage Email Campaign Schedule	Only supported using the campaign schedule calls for Email campaigns.	Now supports using the campaign schedule calls for Push campaigns. The account must have Integrated Push enabled. See the “Managing Campaign Schedules (Email or Push)” section for details.

Version 1.1 to 1.2

Not applicable for the standard REST API. Version 1.2 applies only for accounts with Automatic Failover for Transactional Messaging (AFTM).

Version 1 to 1.1

This section contains information about the differences between the v1 and v1.1 API.

NOTE: Oracle has announced the deprecation of v1 API in September 2018. Please plan to migrate your code to v1.3 as soon as possible. More details are available in the Oracle Responsys REST API Upgrade Guide on Topliners.

API Task	Version 1 API	Version 1.1 API
Merge or update members in a profile extension table	`matchColumn` is deprecated NOTE: You may still see this in the response body of some v1.1 and greater APIs.	Use `matchColumnName1` and, optionally, `matchColumnName2`
Error Handling - For requests to trigger a message, when the response returns an error for a recipient then the success attribute is false.	The previous version of the API used to return the error description as part of the attribute `errorMessage`, with a description similar to the following: "`Recipient deliverability status is undeliverable`".	The error description is now pre-pended with the error code, so that you can look up the error code from the `errorMessage` attribute: "*`ERROR_CODE`: `error description`*" For example: "`RECIPIENT_STATUS_UNDELIVERABLE: Recipient deliverability status is undeliverable`".

Appendix A: Authentication with Certificates

The following example script illustrates the process for authentication with username and certificates.

```
private void loginWithCertificate() {

        String username = getUserInput("Username : ");
        byte[] clientChallengeBytes = String.valueOf(new
Random().nextLong()).getBytes();
        String encodedClientChallenge =
Base64.encodeBase64URLSafeString(clientChallengeBytes);

        MultiValueMap<String, String> requestParams = new LinkedMultiValueMap<String,
String>();
        requestParams.add("user_name", username);
        requestParams.add("auth_type", "server");
        requestParams.add("client_challenge", encodedClientChallenge);
```

```
        HttpHeaders headers = new HttpHeaders();
        headers.setContentType(MediaType.APPLICATION_FORM_URLENCODED);

        HttpEntity<MultiValueMap<String, String>> requestEntity = new
HttpEntity<MultiValueMap<String, String>>(
                requestParams, headers);

        ServerChallengeResponse challengeResponse = null;
        try {
            challengeResponse = invokeApiWithPost(RestApi.LOGIN_CERT_SVR,
requestEntity,
                    ServerChallengeResponse.class);
        }
        catch (RestServiceException e) {
            sop("************************************");
            sop("Authenticate Server Failed");
            sop("************************************");
            sop("Error Code: " + e.getError().toString() + "\r\nError: "
                    + e.getError().getErrorMessage() + "\r\nDetail : " +
e.getMessage());
            return;
        }

        byte[] encryptedClientChallengeBytes = Base64.decodeBase64(challengeResponse
                .getClientChallenge());
        byte[] serverChallengeBytes =
Base64.decodeBase64(challengeResponse.getServerChallenge());

        String serverCertName = getUserInput("Enter the name & location of the server
certificate : ");
        File certFile = new File(serverCertName);
        if (!certFile.exists()) {
            sop("Server certificate doesn't exist in that location");
            return;
        }

        X509Certificate serverCertificate = null;



        try {
            CertificateFactory certFactory = CertificateFactory.getInstance("X.509");
            serverCertificate = (X509Certificate) certFactory
                    .generateCertificate(new FileInputStream(certFile));

            Cipher decryptCipher = Cipher.getInstance("RSA");
            decryptCipher.init(Cipher.DECRYPT_MODE, serverCertificate.getPublicKey());
            byte[] decryptedClientChallengeBytes = decryptCipher
                    .doFinal(encryptedClientChallengeBytes);

            // Compare the clientChallenge with decryptedClientChallenge.
            boolean serverValidated = Arrays.equals(clientChallengeBytes,
                    decryptedClientChallengeBytes);

            if (serverValidated) {
                sop("Server response validation 'PASSED' ... proceeding further to
login to REST service");
            }
            else {
                sop("Server response validation 'FAILED'");
                return;
            }
        }
```

```
        catch (Exception e) {
            sop("Could not process with the ceritificate : " + e.getMessage());
            return;
        }
        // Get the private key of the client certificate
        PrivateKey privateKey = getPrivateKeyForClientCertificate();
        if (privateKey == null) {
            sop("Couldn't get private key from the client certificate");
            return;
        }

        byte[] encryptedServerChallengeBytes = null;

        try {
            Cipher encryptCipher = Cipher.getInstance("RSA");
            encryptCipher.init(Cipher.ENCRYPT_MODE, privateKey);
            encryptedServerChallengeBytes =
encryptCipher.doFinal(serverChallengeBytes);
        }
        catch (Exception e) {
            sop("Couldn't encrypt server challenge : " + e.getMessage());
            return;
        }

        requestParams = new LinkedMultiValueMap<String, String>();
        requestParams.add("user_name", username);
        requestParams.add("auth_type", "client");
        requestParams.add("server_challenge",
                Base64.encodeBase64URLSafeString(encryptedServerChallengeBytes));

        headers = new HttpHeaders();
        headers.setContentType(MediaType.APPLICATION_FORM_URLENCODED);
        headers.add("Authorization", challengeResponse.getAuthToken());

        requestEntity = new HttpEntity<MultiValueMap<String, String>>(requestParams,
headers);

        LoginResponse loginResponse = null;
        try {
            loginResponse = invokeApiWithPost(RestApi.LOGIN_CERT_CL, requestEntity,
                    LoginResponse.class);
        }
        catch (RestServiceException e) {
            sop("************************************");
            sop("Login with ceritficate : FAILED");
            sop("************************************");
            sop("Error Code: " + e.getError().toString() + "\r\nError: "
                    + e.getError().getErrorMessage() + "\r\nDetail : " +
e.getMessage());
        }

        if (loginResponse != null) {
            String restEndPoint = loginResponse.getEndPoint();
            if (!isEmpty(restEndPoint)) {
                sop("************************************");
                sop("Login with ceritficate : PASSED");
                sop("************************************");
                this.svcEndPoint = restEndPoint;
                this.token = loginResponse.getAuthToken();
            }
            else {
                sop("************************************");
                sop("Login with user/pwd : FAILED");
```

```
            sop("**********************************");
            sop("Error: RestEndPoint has not been defined for this ARG."
                    + "Please check REST API settings in PodConfig.ini.");
        }
    }
}
```