

# iWay

Omni-Gen™ Integration Edition API  
Services Reference Guide

Version 3.14

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# Preface

This documentation provides a reference for Omni-Gen™ Integration Edition API Services. This manual is intended for developers and administrators of Omni-Gen™.

## How This Manual Is Organized

This manual includes the following chapters:

	<b>Chapter/Appendix</b>	<b>Contents</b>
1	Omni-Gen Instance Services	Describes services used for subject instance management.
2	Omni-Gen Change Data Capture Services	Describes the Omni-Gen change data capture (CDC) services, which allow a client to subscribe to changes of instance records.
3	Omni-Gen Bulk Load API	Describes the Omni-Gen bulk loading API, which supports data loads to Omni-Gen directly from OnRamp tables or from Omni Interface Documents (OIDs), which are converted into OnRamp tables.
4	Omni Server Status Operations	Describes the Omni Server status API calls, which allow for server state discovery, its health, and operation mode.
5	Omni Controller Deployed Bundle Artifacts	Describes API calls to download artifacts for a deployed bundle.
6	Omni-Gen Metadata Services	Describes the Omni-Gen metadata services, which are available as part of the Omni-Gen Controller REST API, and allow a client to manage metadata for a domain.
7	Omni-Gen Source Management Services	Describes the Omni-Gen source management services that you can use to document Omni interactions with external systems. They are available as part of the Omni-Gen Controller REST API.

## Documentation Conventions

The following table lists and describes the documentation conventions that are used in this manual.

Convention	Description
<p><code>THIS TYPEFACE</code></p> <p>or</p> <p><code>this typeface</code></p>	Denotes syntax that you must type exactly as shown.
<code>this typeface</code>	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
<u>underscore</u>	Indicates a default setting.
Key + Key	Indicates keys that you must press simultaneously.
{ }	Indicates two or three choices. Type one of them, not the braces.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
...	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).
. . .	Indicates that there are (or could be) intervening or additional commands.

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## Help Us to Serve You Better

To help our consultants answer your questions effectively, be prepared to provide specifications and sample files and to answer questions about errors and problems.

The following table lists the environment information that our consultants require.

<b>Platform</b>	
<b>Operating System</b>	
<b>OS Version</b>	
<b>JVM Vendor</b>	
<b>JVM Version</b>	

The following table lists additional questions to help us serve you better.

<b>Request/Question</b>	<b>Error/Problem Details or Information</b>
Did the problem arise through a service or event?	

Request/Question	Error/Problem Details or Information
Provide usage scenarios or summarize the application that produces the problem.	
When did the problem start?	
Can you reproduce this problem consistently?	
Describe the problem.	
Describe the steps to reproduce the problem.	
Specify the error messages.	
Any change in the application environment: software configuration, EIS/database configuration, application, and so forth?	
Under what circumstance does the problem <i>not</i> occur?	

The following is a list of error and problem files that might be applicable.

- Input documents (XML instance, XML schema, non-XML documents)
- Transformation files
- Error screen shots
- Error output files
- Trace files
- Custom functions and agents in use
- Diagnostic Zip
- Transaction log

## User Feedback

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Thank you, in advance, for your comments.

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## Omni-Gen Instance Services

---

The Omni-Gen instance services are used for subject instance management. These services allow a consumer to read and write instances.

### In this chapter:

- [Load Subject Instance](#)
  - [Get an Instance](#)
- 

### Load Subject Instance

Use the following REST call to initiate the load process for a subject in Omni-Gen. Omni-Gen will take the subject information in the form of an OID XML document.

Omni-Gen can process fully qualified or partial OID XML documents. The required `SourceName` and `SourceInstanceId` elements are used by Omni-Gen to determine whether a subject is new or an update to a previous instance. Omni-Gen will construct the best possible subject document by intelligently combining the current subject instance with previous instance data. This intelligent combination may be configured at the document, source, subject, or source/subject levels.

#### **PUT: /server/api/v1/server/instance?mode=&timeout=**

The data must be a correctly formatted OID XML, which minimally requires a `SourceName` and `SourceInstanceId`. The OID may be fully qualified or partially qualified.

- `mode` – Specify the loading mode of `sync` or `async`. The default is `async`, as `sync` will block the caller until the data is fully processed or a timeout occurs.
- `timeout` – When `mode=sync`, the caller will be blocked until the document is fully processed or until this timeout is exceeded.

#### **Example:**

**PUT** `https://localhost:9514/server/api/v1/server/instance`

`Content-Type: application/xml`

```
<customer>
  <SourceName>ReadTest</SourceName>
  <SourceInstanceId>ReadTestCustomer</SourceInstanceId>
  <cu_title>DEVELOPER</cu_title>
  <cu_salutation>MR</cu_salutation>
  <cu_suffix>PHD</cu_suffix>
  <cu_first_name>SCOTT</cu_first_name>
  <cu_middle_name>W</cu_middle_name>
  <cu_last_name>BISHOPP</cu_last_name>
  <cu_full_name>MR SCOTT W BISHOPP PHD</cu_full_name>
  <cu_gender>M</cu_gender>
  <cu_dob format="yyyy-MM-dd">1965-02-21</cu_dob>
  <cu_ssn>874-98-4546</cu_ssn>
  <cu_type>P</cu_type>
  <cu_bus_name>IBI</cu_bus_name>
  <cu_dba_name>SCOTTYB</cu_dba_name>
  <cust_addressOmniCollection>
    <customercust_address version="">
      <SourceName>ReadTest</SourceName>
      <SourceInstanceId>ReadTest:address</SourceInstanceId>
      <ad_1>4212 S LIVONIA RD</ad_1>
      <ad_2>ATTN: SCOTT BISHOPP</ad_2>
      <ad_city>LIVONIA</ad_city>
      <ad_state>NY</ad_state>
      <ad_zip>14487</ad_zip>
      <ad_zip4>0212</ad_zip4>
      <ad_country>US</ad_country>
    </customercust_address>
  </cust_addressOmniCollection>
</customer>
```

### - response -

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Content-Length: 202
Date: Tue, 08 May 2018 15:34:06 GMT
```

```
<RestResponse>
  <status>0</status>
  <statusText></statusText>
  <responseType>java.lang.String</responseType>
  <response>
    Submitted request for customer:ReadTest:ReadTestCustomer
  </response>
</RestResponse>
```

## Get an Instance

Use the following service to get an instance using its unique identifier.

**GET: /server/api/v1/server/instance/{subject}/{sourceName}/{sourceInstanceId}**

- ❑ {subject} – Required subject name.
- ❑ {sourceName} – Required source name of the instance.
- ❑ {sourceInstanceId} – Required instance identifier.

**Example:**

**GET** https://localhost:9514/server/api/v1/server/instance/customer/ReadTest/ReadTestCustomer

**– response –**

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Content-Length: 1256
Date: Tue, 08 May 2018 15:42:07 GMT

<RestResponse>
<status>0</status>
<statusText></statusText>
<responseType>java.lang.String</responseType> <response>
<customer>
  <SourceName>ReadTest</SourceName>
  <SourceInstanceId>ReadTestCustomer</SourceInstanceId>
  <cu_title>Developer</cu_title>
  <cu_salutation>Mr</cu_salutation>
  <cu_suffix>Phd</cu_suffix>
  <cu_first_name>Scott</cu_first_name>
  <cu_middle_name>W</cu_middle_name>
  <cu_last_name>Bishopp</cu_last_name>
  <cu_full_name>Mr Scott W Bishopp Phd</cu_full_name>
  <cu_gender>M</cu_gender>
  <cu_dob format="yyyy-MM-dd">1965-02-21</cu_dob>
  <cu_ssn>874-98-4546</cu_ssn>
  <cu_type>P</cu_type>
  <cu_bus_name>IBI</cu_bus_name>
  <cu_dba_name>SCOTTYB</cu_dba_name>

```

```
<cust_addressOmniCollection>
  <customercust_address>
    <SourceName>ReadTest</SourceName>
    <SourceInstanceId>ReadTest:address</SourceInstanceId>
    <ad_1>4212 S LIVONIA RD</ad_1>
    <ad_2>ATTN: SCOTT BISHOPP</ad_2>
    <ad_city>LIVONIA</ad_city>
    <ad_state>NY</ad_state>
    <ad_zip>14487</ad_zip>
    <ad_zip4>0212</ad_zip4>
    <ad_country>US</ad_country>
  </customercust_address>
</cust_addressOmniCollection>
</customer>
</response>
</RestResponse>
```

# Chapter 2

## Omni-Gen Change Data Capture Services

---

The Omni-Gen change data capture (CDC) services allow a client to subscribe to changes of instance records. When subscribed, changes are detected, and the instance OID will be published to a location that the subscriber designated.

### In this chapter:

- [Subscribe to Changes](#)
  - [Cancel a Subscription](#)
  - [Enable or Disable a Subscription](#)
  - [Get List of Subscription](#)
  - [Get Change Data Capture Process Status](#)
  - [Start the Change Data Capture Process](#)
  - [Stop the Change Data Capture Process](#)
- 

### Subscribe to Changes

Use the following REST call to subscribe to changes for a specific subject instance. The payload sent to the destination will be the OID that has been modified.

#### POST: `/server/api/v1/server/cdc/subscribe`

The data body is the configuration information about where to publish, the subscriber, and optionally, the source to watch.

```
<SubscriptionConfiguration>
  <subject/>
  <source/>
  <subscriber/>
  <connectionType/>
  <url/>
</SubscriptionConfiguration>
```

- `subject` – Required subject instance to subscribe to.
- `source` – Optional source when subscribing to instance changes.

- ❑ subscriber – Required identifier of the subscriber.
- ❑ connectionType – Required connection type, which must be set to REST.
- ❑ url – Required when the connectionType is REST and is used to specify the endpoint that can accept the POST operation.

### Response:

A RestResponse will be returned with the <response> containing the unique subscription ID.

### Example:

**POST** https://localhost:9514/server/api/v1/server/cdc/subscribe

Content-Type: application/xml

```
<SubscriptionConfiguration>
  <subject>customer</subject>
  <subscriber>Test</subscriber>
  <connectionType>rest</connectionType>
  <url>
    https://localhost:9514/server/api/v1/server/cdc/subscribe/loopback
  </url>
</SubscriptionConfiguration>
```

### – response –

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Thu, 03 May 2018 11:37:45 GMT
```

```
<RestResponse>
  <status>0</status>
  <statusText/>
  <responseType>java.lang.String</responseType>
  <response>271192d4-48d0-4e91-869e-dc1b477311be</response>
</RestResponse>
```

## Cancel a Subscription

Use the following REST call to cancel a subscription.

**DELETE:** /server/api/v1/server/cdc/subscribe/{subscriptionId}

Specify the subscription ID to cancel.

**Example:**

**DELETE** https://localhost:9514/server/api/v1/server/cdc/subscribe/  
271192d4-48d0-4e91-869e-dc1b477311be

**– response –**

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Thu, 03 May 2018 11:39:19 GMT

<RestResponse>
  <status>0</status>
  <statusText/>
  <responseType>java.lang.String</responseType>
  <response>271192d4-48d0-4e91-869e-dc1b477311be</response>
</RestResponse>
```

**Enable or Disable a Subscription**

Use the following REST call to enable or disable a subscription. When a subscription is disabled, no changes will be set to the subscriber.

**PUT: /server/api/v1/server/cdc/subscribe/{subscriptionId}?status=ENABLE|DISABLE**

Specify the subscription ID and the new status of the subscription.

**Example:**

**PUT** https://localhost:9514/server/api/v1/server/cdc/subscribe/5f1021c3-234b-4a05-  
ae88-86ff6af8aa8e?status=disable

Content-Type: application/xml

**– response –**

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Thu, 03 May 2018 11:41:36 GMT
```

```
<RestResponse>
  <status>0</status>
  <statusText/>
  <responseType>java.lang.String</responseType>
  <response>DISABLED</response>
</RestResponse>
```

## Get List of Subscription

Use the following REST call to get the list of current subscriptions.

### GET: /server/api/v1/server/cdc/subscribe

Retrieves the list of current subscriptions.

#### Example:

**GET** https://localhost:9514/server/api/v1/server/cdc/subscribe

#### – response –

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Tue, 08 May 2018 11:25:11 GMT
```

```
<RestResponse>
  <status>0</status>
  <statusText/>
  <responseType>java.util.ArrayList</responseType>
  <responses>
    <responseItem>
      <CdcSubscriptionInfo>
        <subscriber>Test</subscriber>
        <subject>customer</subject>
        <source/>
        <connectionType>rest</connectionType>
        <connectionInfo/>
        <url>
          https://localhost:9500/controller/api/v1/server/cdc/subscribe/loopback
        </url>
        <createdDate>2016-05-10</createdDate>
        <lastUpdate>2016-05-10</lastUpdate>
        <id>ab529810-e4a8-4718-bb7d-b37240ceeffe</id>
        <status>E</status>
      </CdcSubscriptionInfo>
    </responseItem>
  </responses>
</RestResponse>
```

## Get Change Data Capture Process Status

Use the following REST call to get the current status of the CDC process.

### GET: /server/api/v1/server/cdc/status

Get the current status of the CDC poller process.

#### Example:

**GET** https://localhost:9514/server/api/v1/server/cdc/status

#### – response –

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Tue, 08 May 2018 13:32:06 GMT

<RestResponse>
  <status>0</status>
  <statusText/>
  <responseType>com.ibi.omnigen.controller.cdc.NotificationServiceStatus</
responseType>
  <response>
    <NotificationServiceStatus>
      <status>Stopped</status>
      <configurationValid>true</configurationValid>
      <serviceName>cdc</serviceName>
      <lastRun/>
      <pollInterval>300</pollInterval>
    </NotificationServiceStatus>
  </response>
</RestResponse>
```

## Start the Change Data Capture Process

Use the following REST call to start the CDC process with an optional interval.

### GET: /server/api/v1/server/cdc/start?interval=<seconds>

Start the CDC process.

#### Example:

**GET** https://localhost:9514/server/api/v1/server/cdc/start?interval=5

### **- response -**

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Tue, 08 May 2018 13:39:53 GMT

<RestResponse>
  <status>0</status>
  <statusText/>

<responseType>
  com.ibi.omnigen.controller.cdc.NotificationServiceStatus
</responseType>
<response>
  <NotificationServiceStatus>
    <status>Running</status>
    <configurationValid>true</configurationValid>
    <serviceName>cdc</serviceName>
    <lastRun/>
    <pollInterval>5</pollInterval>
  </NotificationServiceStatus>
</response>
</RestResponse>
```

## Stop the Change Data Capture Process

Use the following REST call to stop the CDC process with an optional interval.

### **GET: /server/api/v1/server/cdc/stop**

Stop the CDC process.

### **Example:**

**GET** https://localhost:9514/server/api/v1/server/cdc/stop

**- response -**

```
200 OK
Server: Apache-Coyote/1.1
X-Application-Context: application:9500
Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Date: Tue, 08 May 2018 13:44:53 GMT

<RestResponse>
  <status>0</status>
  <statusText/>
  <responseType>
    com.ibi.omnigen.controller.cdc.NotificationServiceStatus
  </responseType>
  <response>
    <NotificationServiceStatus>
      <status>Stopped</status>
      <configurationValid>true</configurationValid>
      <serviceName>cdc</serviceName>
      <lastRun>2018-05-08</lastRun>
      <pollInterval>5</pollInterval>
    </NotificationServiceStatus>
  </response>
</RestResponse>
```



# Chapter 3

## Omni-Gen Bulk Load API

---

The Omni-Gen bulk loading API supports data loads to Omni-Gen directly from OnRamp tables or from Omni Interface Documents (OIDs), which are converted into OnRamp tables.

For more detailed information on loading data into Omni-Gen, see the *Omni-Gen Integration Edition Relational OnRamp User's Guide*.

### In this chapter:

- [Load Bulk Subject](#)
  - [Process Bulk Subject](#)
  - [Process Immediate](#)
  - [Process Ramp](#)
- 

### Load Bulk Subject

Use the following REST call to populate OnRamp tables with data represented by an Omni Interface Document (OID). The records written are assigned a batchId provided as a query parameter to the call.

The OnRamp batch may then be loaded into Omni through subsequent Process Bulk Subject or Process Ramp REST calls. Many OIDs may be processed together using the same batchId. However, a batch may only contain records with distinct primary keys. This is enforced by OnRamp constraints.

#### PUT: /server/api/v1/server/bulk/load/{subject}?batchId=

The data payload must be a correctly formatted OID XML, which minimally requires a SourceName and SourceInstanceId. The OID may be fully or partially qualified.

- subject** – Specify the name of the subject that is being loaded. This must match the subject that is being loaded in the payload.
- batchId** – Generated that should not collide with any other bulk loading operation. This batchId will define the set of data to process using the bulk processing command.

### Example:

**PUT** https://localhost:9514/server/api/v1/server/bulk/load/Facility?batchId=4

```
<Facility version="1.1.7">
  <SourceName>test_system</SourceName>
  <SourceInstanceId>1499870996285_86_3</SourceInstanceId>
  <Type sourceName="test_system" codeSet="Types">type_code</Type>
  <Name>TestHospitalName</Name>
  ...
</Facility>
```

### – response –

```
{
  "status": "OK",
  "code": 0,
  "message": "Added Facility:test_system:1499870996285_86_3 OID XML
document to Ramp.",
  "developerMessage": null,
  "responseType": "com.ibi.omni.rest.support.ServiceOperationDto",
  "response": {
    "service": "RampProcessing",
    "operation": "writeOidToRamp",
    "code": 0,
    "message": "Added Facility:test_system:1499870996285_86_3 OID XML
document to Ramp.",
    "start": 1500059394757,
    "end": 1500059396014
  },
  "exception": null
}
```

Use "code" to determine the result of the request. Any value other than zero (0) should be considered an error and the message will contain the reason.

### Error Codes:

- 100 – Missing required SourceName element.
- 110 – Missing required SourceInstanceId element.
- 120 – Fatal error processing the OID.
- 130 – Invalid XML document format.

## Process Bulk Subject

Use the following REST call to schedule processing for a specific subject and batchId. This call will return status when the request is scheduled. The processing is carried out by the server, subsequently.

**Note:** If multiple subjects are loaded into a single OnRamp batch, they need to be processed with separate bulk/process calls, one for each subject. Processing follows the rules of batch\_type UPSERT. Process Bulk provides a function similar to Process Ramp, with all defaults taken.

**GET:** /server/api/v1/server/bulk/process/{subject}?batchId=&subject=

Execute the processing of a loaded subject and batch.

- batchId – Specify the batchId used to load the data.
- subject – Specify the name of the subject to process.

### Example:

**GET** https://localhost:9514/server/api/v1/server/bulk/process/Facility?batchId=4

– response –

```
{
  "status": "OK",
  "code": 0,
  "message": "Scheduled ramp load of Facility with count = 4",
  "developerMessage": null,
  "responseType": "com.ibi.omni.rest.support.ServiceOperationDto",
  "response": {
    "service": "RampProcessing",
    "operation": "processRampData",
    "code": 0,
    "message": "Scheduled ramp load of Facility with count = 4",
    "start": 1500059103385,
    "end": 1500059103427
  },
  "exception": null
}
```

Use "code" to determine the result of the request. Any value other than zero (0) should be considered an error and the message will contain the reason.

### Error Codes

- 90 – No records in Ramp tables for subject and batch.

- ❑ 100 – Error reading database for subject and batch.
- ❑ 110 – Other error processing error.

### Process Immediate

Use the following REST call to synchronously load and process an Omni Interface Document (OID).

**Note:** policy = (merge/replace/delete) is respected. See the *Omni-Gen Integration Edition Relational OnRamp User's Guide* for more detailed information.

### Example:

**POST** https://localhost:9514/server/api/v1/server/processImmediateService

```
<Facility version="1.1.7">
  <SourceName>test_system</SourceName>
  <SourceInstanceId>1499870996285_86_3</SourceInstanceId>
  <Type sourceName="test_system" codeSet="Types">type_code</Type>
  <Name>TestHospitalName</Name>
</Facility>
```

#### – response –

```
{
  "status": "OK",
  "code": 0,
  "message": "Processed OID Immediately",
  "developerMessage": null,
  "responseType": "com.ibi.omni.rest.support.ServiceOperationDto",
  "response": {
    "service": "DataProcessing",
    "operation": "processImmediate",
    "code": 0,
    "message": "Processed OID Immediately",
    "start": 1574113093346,
    "end": 1574113107599
  },
  "exception": null
}
```

### Error Codes

- ❑ 400 – Unable to load OID to ramp. See message for more information.

## Process Ramp

Use the following REST call to schedule processing ramp data for a specific subject and batchId, governed by the various batch options. This call will return status when the request is scheduled. The processing is carried out by the server subsequently.

The HTTP PUT request accepts the parameters listed and described in the following table.

Parameter	Type	Description and Values
batchId	string	Batch to execute.
subject	string	Subject to process as part of the batch.
sourceName	string	Restrict the source system to participate in the batch.
batchType	string	Mode corresponding to the <i>batch_type</i> : <ul style="list-style-type: none"> <li><input type="checkbox"/> UPSERT (default)</li> <li><input type="checkbox"/> INSERT_ONLY</li> <li><input type="checkbox"/> REPLACE_SELECTED</li> <li><input type="checkbox"/> REPLACE_ALL</li> <li><input type="checkbox"/> DELETE</li> </ul>

The following table provides the batch options (sub directives) for the process ramp service and the corresponding *batch\_options* column in *os\_ramp\_control*.

Name	Type	Description and Values
dataTransferMode	string	<p>Overrides the default data transfer mode runtime configuration setting.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> JPA (default) Database neutral.</li> <li><input type="checkbox"/> NATIVE_SQL High performance, bulk database-specific. Currently supported for SQL Server and PostgreSQL.</li> </ul> <p><b>Note:</b> NATIVE_SQL generates a runtime error for unsupported databases.</p>
changeDetection	string	<p>Determines whether or not to eliminate duplicates from further processing.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ENFORCE (default) Eliminates the duplicates.</li> <li><input type="checkbox"/> IGNORE Guarantees processing of all records in a batch. Useful at certain times for error recovery.</li> </ul> <p><b>Note:</b> ChangeDetection = IGNORE replaces batch option <i>FORCE_REPROCESS</i>.</p>

Name	Type	Description and Values
upsertNullHandling (previously <i>addUpdateNullHandling</i> )	string	UPSERT only. Governs how to handle missing values on an update.  <input type="checkbox"/> PRESERVE (default) <input type="checkbox"/> OVERRIDE
truncateBeforeInsert	boolean	Truncate data before an INSERT_ONLY operation. Used for a full replacement of the data set. Applies only to transactional subjects.  <input type="checkbox"/> FALSE (default) <input type="checkbox"/> TRUE  <b>Note:</b> Is an error unless loadType is INSERT_ONLY.

**Example:**

**PUT** <https://localhost:9514/server/api/v1/server/processRamp.v4?batchId=8&batchType=UPSERT&changeDetection=ENFORCE&dataTransferMode=JPA&subject=Facility&truncateBeforeInsert=FALSE&upsertNullHandling=PRESERVE>

**- response -**

```
{
  "status": "OK",
  "code": 0,
  "message": "Loaded Facility from Ramp. (batch=8, instructions={\n
  \loadType\": \"MERGE\", \n
  \truncateTablePolicy\": \"NO_TRUNCATE\", \n  \addUpdateNullHandling\":
  \PRESERVE\", \n
  \duplicateRecordPolicy\": \"IGNORE\", \n  \dataTransferMode\": \"JPA
  \\", \n}, sourceName=null",
  "developerMessage": null,
  "responseType": "com.ibi.omni.rest.support.ServiceOperationDto",
  "response": {
    "service": "DataProcessing",
    "operation": "processRamp",
    "code": 0,
    "message": "Loaded Facility from Ramp. (batch=8, instructions={\n
    \loadType\": \"MERGE\", \n
    \truncateTablePolicy\": \"NO_TRUNCATE\", \n  \addUpdateNullHandling\":
    \PRESERVE\", \n
    \duplicateRecordPolicy\": \"IGNORE\", \n  \dataTransferMode\": \"JPA
    \\", \n}, sourceName=null",
    "start": 1574115854275,
    "end": 1574115854341
  },
  "exception": null}
```

**Error Codes**

- ❑ 400 – Error in Subject or Planning failure. See message for more information.

## Omni Server Status Operations

---

The Omni Server status API calls allow for server state discovery, its health, and operation mode.

### In this chapter:

- Status
  - Ping Server
  - Running Product
- 

### Status

Use the following operation to receive the server status object.

**GET:** /server/

#### Example:

**GET** https://localhost:9514/server/

**–response –**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.lang.String",
  "response": "Server Running",
  "exception": null
}
```

### Ping Server

Use the following operation to ping the server and receive string "ok".

**GET:** /server/api/v1/ping

#### Example:

**GET** https://localhost:9514/server/api/v1/ping

**–response –**

ok

## Running Product

Use the following operation to determine edition of the running product.

**GET: /server/api/v1/status/omniProduct**

**Example:**

**GET** https://localhost:9514/server/api/v1/status/omniProduct

**–response–**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.lang.String",
  "response": "MD_BASE_EDITION",
  "exception": null
}
```

## Running Mode

Use the following operation to determine the product running mode.

**GET: /server/api/v1/status/omniRunningMode**

**Example:**

**GET** https://localhost:9514/server/api/v1/status/omniRunningMode

**–response–**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.lang.String",
  "response": "DEVELOPMENT",
  "exception": null
}
```

## Omni Controller Deployed Bundle Artifacts

---

This section describes API calls to download artifacts for a deployed bundle.

**In this chapter:**

- ❑ [Download Bundle Artifact](#)
- 

### Download Bundle Artifact

Use the following API call to extract different types of artifacts for a deployed bundle.

It could be XSD, documentation, examples, bundle itself.

#### GET: /api/v1/deploy/bundle/artifact

**Example:**

**GET** `https://localhost:9500/api/v1/deploy/bundle/artifact`

- ❑ {filename} – Artifact name.
- ❑ {artifact} – Requested artifact type from the list: documentation, xsd, example, ids, bundle

**-request -**

`https://localhost:9500/api/v1/deploy/bundle/artifact?  
filename=SourceCodeStandard.xml&artifact=example`

**-response-**

```
<?xml version="1.0" encoding="UTF-8"?>
<OmniInterface>
  <SourceCodeStandard version="3.0.0">
    <BaseCode sourceName="test_system" codeSet="BaseCodes">base_code</
BaseCode>
    <StandardCode sourceName="test_system"
codeSet="StandardCodes">standard_code</StandardCode>
    <Description>description</Description>
    <SourceStatusCode sourceName="test_system"
codeSet="SourceStatusCodes">source_status_code</SourceStatusCode>
    <SourceCreatedDate format="yyyy-MM-dd">2017-10-18</SourceCreatedDate>
    <SourceCreatedBy>source_created_by</SourceCreatedBy>
    <SourceModifiedDate format="yyyy-MM-dd">2017-10-1</SourceModifiedDate>
    <SourceModifiedBy>source_modified_by</SourceModifiedBy>
  </SourceCodeStandard>
</OmniInterface>
```

## Omni-Gen Metadata Services

---

The Omni-Gen metadata services, which are available as part of the Omni-Gen Controller REST API, allow a client to manage metadata for a domain.

### In this chapter:

- [List All Subjects](#)
  - [List All Domains](#)
  - [List Subjects in a Domain](#)
  - [Get Metadata for a Subject Instance](#)
  - [Get All Metadata for a Subject](#)
- 

### List All Subjects

Use the following REST call to return all subjects defined in the project.

#### GET: /api/v1/metadata/subjects

The list of subjects is returned in JSON format.

#### Example:

**GET** <https://localhost:9500/api/v1/metadata/subjects>

**-- response --**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.Vector",
  "response": [
    "Customer",
    "Item",
    "SalesOrder",
    "SalesOrg"
  ],
  "exception": null
}
```

### List All Domains

Use the following REST call to return all domains defined in the project.

#### GET: /api/v1/metadata/domains

The list of domains is returned in JSON format.

#### Example:

**GET** https://localhost:9500/api/v1/metadata/domains

#### – response –

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.Vector",
  "response": [
    "Customer",
    "Item",
    "SalesOrder",
    "SalesOrg"
  ],
  "exception": null
}
```

### List Subjects in a Domain

Use the following REST call to list all the subjects defined in a specific domain.

#### GET: /api/v1/metadata/domains/{domain}

The list of subjects is returned in JSON format. {domain} is one of the domains in the list returned by the method above.

#### Example:

**GET** https://localhost:9500/api/v1/metadata/domains/SalesOrg

**– response –**

```

{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "com.ibi.omni.controller.services.metadata.DomainDto",
  "response": {
    "domainName": "SalesOrg",
    "subjects": [
      "SalesOrg"
    ]
  },
  "exception": null
}

```

**Get Metadata for a Subject Instance**

Use the following REST call to return detailed metadata for a subject instance. See the data dictionary for the metadata repository for an explanation of the attributes returned.

**GET: /api/v1/metadata/subject/instance/{name}**

The response is returned in JSON format. {name} is the name of a subject instance in the project.

**Example:**

**GET** <https://localhost:9500/api/v1/metadata/subject/instance/SalesOrg>

**- response -**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "com.ibi.omni.model.ids.IdsDocumentModel",
  "response": {
    "name": "SalesOrg",
    "version": null,
    "bundleCreatedBy": "IBI Deployment Bundler",
    "projectName": "CustomerAutoiwqaomnia",
    "bundleReleaseNumber": "3.5.0.Alpha.10",
    "bundleVersion": "CustomerAutoiwqaomnia_3_5_0_Alpha_10_190506131145",
    "idsVersion": "2.0",
    "udlName": "SalesOrg",
    "type": "instance",
    "instance": null,
    "access": "standard",
    "tableName": "og_sales_org",
    "sourceTableName": "og_sales_org_s",
    "rampTableName": "og_sales_org_r",
    "tableSpace": null,
    "domain": "SalesOrg",
    "elementOrder":
      "OmniStatus,OmniStatusReason,SourceName,SourceInstanceId,SourceInstanceIdName,sales_org_name,sales_org_desc,sales_org_start_dt,sales_org_end_dt,primary_geo_area,SourceStatusCode,SourceCreateDate,SourceCreatedBy,SourceModifiedDate,SourceModifiedBy",
    "captureHistory": false,
    "excludeFromRamp": false,
    "backingClass": "com.ibi.omni.model.DIBInstance",
    "implementationClass": null,
    "allowInitialUpdates": false,
    "persistenceUnit": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": false,
    "documentation": "The enterprise's sales organization information such as name, identifier and description.",
    "longDocumentation": "",
    "changeLogs": [],
    "elements": [
      {
        "name": "sales_org_desc",
        "udlName": "sales_org_desc",
        "typeName": "string",
        "dbTable": "og_sales_org",
        "sourceTable": "og_sales_org_s",
        "rampTable": "og_sales_org_r",
        "dbColumn": "sales_org_desc",
        "dbRampColumns": null,

```

```

    "contains": null,
    "keys": null,
    "immediate": false,
    "hidden": false,
    "key": false,
    "excludeInDoc": false,
    "required": false,
    "index": false,
    "allowCreate": true,
    "maxLength": null,
    "precision": null,
    "scale": null,
    "excludeFromRamp": false,
    "codeSourceName": null,
    "codeSet": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": false,
    "documentation": "The textual description for a sales
organization.",
    "shortDescription": null
  },
{
  "name": "SourceStatusCode",
  "udlName": "sourceStatusCode",
  "typeName": "code",
  "dbTable": "og_sales_org",
  "sourceTable": "og_sales_org_s",
  "rampTable": "og_sales_org_r",
  "dbColumn": "source_status_code_code",
  "dbRampColumns":
"source_status_code_src,source_status_code_set,source_status_code_val",
  "contains": null,
  "keys": null,
  "immediate": false,
  "hidden": false,
  "key": false,
  "excludeInDoc": false,
  "required": false,
  "index": false,
  "allowCreate": true,
  "maxLength": null,
  "precision": null,
  "scale": null,
  "excludeFromRamp": false,
  "codeSourceName": null,
  "codeSet": null,
  "cleanse": false,
  "match": false,
  "merge": false,
  "remediate": false,
  "system": false,

```

```
    "documentation": "Use this element to specify a customer specific
status for the instance. This may be used during the match and merge
process.",
    "shortDescription": null
  },
  {
    "name": "SourceName",
    "udlName": "sourceName",
    "typeName": "string",
    "dbTable": "og_sales_org",
    "sourceTable": "og_sales_org_s",
    "rampTable": "og_sales_org_r",
    "dbColumn": "source_name",
    "dbRampColumns": null,
    "contains": null,
    "keys": null,
    "immediate": false,
    "hidden": false,
    "key": true,
    "excludeInDoc": false,
    "required": false,
    "index": false,
    "allowCreate": true,
    "maxLength": null,
    "precision": null,
    "scale": null,
    "excludeFromRamp": false,
    "codeSourceName": null,
    "codeSet": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": true,
    "documentation": "This element must identify the source system that
was responsible for generating this data. This value is determined by the
integration team and used in combination with SourceInstanceId will allow
this record to be traced back to its originating source.",
    "shortDescription": null
  },
  {
    "name": "SourceCreatedDate",
    "udlName": "sourceCreatedDate",
    "typeName": "datetime",
    "dbTable": "og_sales_org",
    "sourceTable": "og_sales_org_s",
    "rampTable": "og_sales_org_r",
    "dbColumn": "source_created_date",
    "dbRampColumns": null,
    "contains": null,
    "keys": null,
    "immediate": false,
    "hidden": false,
    "key": false,
    "excludeInDoc": false,
    "required": false,
```

```

    "index": false,
    "allowCreate": true,
    "maxLength": null,
    "precision": null,
    "scale": null,
    "excludeFromRamp": false,
    "codeSourceName": null,
    "codeSet": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": true,
    "documentation": "Use this element to define when this element was
modified outside of Omni.",
    "shortDescription": null
  },
{
  "name": "primary_geo_area",
  "udlName": "primary_geo_area",
  "typeName": "code",
  "dbTable": "og_sales_org",
  "sourceTable": "og_sales_org_s",
  "rampTable": "og_sales_org_r",
  "dbColumn": "primary_geo_area_code",
  "dbRampColumns":
"primary_geo_area_src,primary_geo_area_set,primary_geo_area_val",
  "contains": null,
  "keys": null,
  "immediate": false,
  "hidden": false,
  "key": false,
  "excludeInDoc": false,
  "required": false,
  "index": false,
  "allowCreate": true,
  "maxLength": null,
  "precision": null,
  "scale": null,
  "excludeFromRamp": false,
  "codeSourceName": null,
  "codeSet": null,
  "cleanse": false,
  "match": false,
  "merge": false,
  "remediate": false,

```

```

        "system": false,
        "documentation": "The primary geographical area assigned to a sales
organization.",
        "shortDescription": null
    },
    {
        "name": "SourceModifiedDate",
        "udlName": "sourceModifiedDate",
        "typeName": "datetime",
        "dbTable": "og_sales_org",
        "sourceTable": "og_sales_org_s",
        "rampTable": "og_sales_org_r",
        "dbColumn": "source_modified_date",
        "dbRampColumns": null,
        "contains": null,
        "keys": null,
        "immediate": false,
        "hidden": false,
        "key": false,
        "excludeInDoc": false,
        "required": false,
        "index": false,
        "allowCreate": true,
        "maxLength": null,
        "precision": null,
        "scale": null,
        "excludeFromRamp": false,
        "codeSourceName": null,
        "codeSet": null,
        "cleanse": false,
        "match": false,
        "merge": false,
        "remediate": false,
        "system": true,
        "documentation": "Use this element to define when this element was
modified outside of Omni.",
        "shortDescription": null
    },
    {
        "name": "SourceInstanceId",
        "udlName": "sourceInstanceId",
        "typeName": "string",
        "dbTable": "og_sales_org",
        "sourceTable": "og_sales_org_s",
        "rampTable": "og_sales_org_r",
        "dbColumn": "source_instance_id",
        "dbRampColumns": null,
        "contains": null,
        "keys": null,
        "immediate": false,
        "hidden": false,
        "key": true,
        "excludeInDoc": false,
        "required": false,
        "index": false,
        "allowCreate": true,
    }

```

```

    "maxLength": null,
    "precision": null,
    "scale": null,
    "excludeFromRamp": false,
    "codeSourceName": null,
    "codeSet": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": true,
    "documentation": "This element should contain an integration
manufactured value that uniquely identifies the collection element and can
be used to map back to the source system. Whatever value is manufactured
must not change over time as it will be used to make updates when data
changes in the source system.",
    "shortDescription": null
  },
{
  "name": "SourceCreatedBy",
  "udlName": "sourceCreatedBy",
  "typeName": "string",
  "dbTable": "og_sales_org",
  "sourceTable": "og_sales_org_s",
  "rampTable": "og_sales_org_r",
  "dbColumn": "source_created_by",
  "dbRampColumns": null,
  "contains": null,
  "keys": null,
  "immediate": false,
  "hidden": false,
  "key": false,
  "excludeInDoc": false,
  "required": false,
  "index": false,
  "allowCreate": true,
  "maxLength": null,
  "precision": null,
  "scale": null,
  "excludeFromRamp": false,
  "codeSourceName": null,
  "codeSet": null,
  "cleanse": false,
  "match": false,
  "merge": false,
  "remediate": false,
  "system": true,
  "documentation": "Use this element to define the id of the person
who was responsible for creating data for this record.",
  "shortDescription": null
},
{
  "name": "SourceInstanceIdName",
  "udlName": "sourceInstanceIdName",
  "typeName": "string",
  "dbTable": "og_sales_org",

```

```
    "sourceTable": "og_sales_org_s",
    "rampTable": "og_sales_org_r",
    "dbColumn": "source_instance_id_name",
    "dbRampColumns": null,
    "contains": null,
    "keys": null,
    "immediate": false,
    "hidden": false,
    "key": false,
    "excludeInDoc": false,
    "required": false,
    "index": false,
    "allowCreate": true,
    "maxLength": null,
    "precision": null,
    "scale": null,
    "excludeFromRamp": false,
    "codeSourceName": null,
    "codeSet": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": true,
    "documentation": "This element gives an indication of where the
data came from in the source system. Will be used in the 360 viewer for
stewards to trace data from Omni back into the source system.",
    "shortDescription": null
  },
{
  "name": "sales_org_start_dt",
  "udlName": "sales_org_start_dt",
  "typeName": "date",
  "dbTable": "og_sales_org",
  "sourceTable": "og_sales_org_s",
  "rampTable": "og_sales_org_r",
  "dbColumn": "sales_org_start_dt",
  "dbRampColumns": null,
  "contains": null,
  "keys": null,
  "immediate": false,
  "hidden": false,
  "key": false,
  "excludeInDoc": false,
  "required": false,
  "index": false,
  "allowCreate": true,
  "maxLength": null,
  "precision": null,
  "scale": null,
  "excludeFromRamp": false,
  "codeSourceName": null,
  "codeSet": null,
  "cleanse": false,
  "match": false,
```

```

    "merge": false,
    "remediate": false,
    "system": false,
    "documentation": "The start date for a sales organization.",
    "shortDescription": null
  },
{
  "name": "SourceModifiedBy",
  "udlName": "sourceModifiedBy",
  "typeName": "string",
  "dbTable": "og_sales_org",
  "sourceTable": "og_sales_org_s",
  "rampTable": "og_sales_org_r",
  "dbColumn": "source_modified_by",
  "dbRampColumns": null,
  "contains": null,
  "keys": null,
  "immediate": false,
  "hidden": false,
  "key": false,
  "excludeInDoc": false,
  "required": false,
  "index": false,
  "allowCreate": true,
  "maxLength": null,
  "precision": null,
  "scale": null,
  "excludeFromRamp": false,
  "codeSourceName": null,
  "codeSet": null,
  "cleanse": false,
  "match": false,
  "merge": false,
  "remediate": false,
  "system": true,
  "documentation": "Use this element to define the id of the person
who was responsible for modifying data for this record.",
  "shortDescription": null
},
{
  "name": "OmniStatus",
  "udlName": "omniStatus",
  "typeName": "string",
  "dbTable": "og_sales_org",
  "sourceTable": "og_sales_org_s",
  "rampTable": "og_sales_org_r",
  "dbColumn": "status",
  "dbRampColumns": null,
  "contains": null,
  "keys": null,
  "immediate": false,
  "hidden": true,
  "key": false,
  "excludeInDoc": false,

```

```

        "required": false,
        "index": false,
        "allowCreate": true,
        "maxLength": null,
        "precision": null,
        "scale": null,
        "excludeFromRamp": false,
        "codeSourceName": null,
        "codeSet": null,
        "cleanse": false,
        "match": false,
        "merge": false,
        "remediate": false,
        "system": true,
        "documentation": "Use this element to set the status of this
record. This field will default to 'ACTIVE' if not supplied. Possible
values are: 'ACTIVE', 'INACTIVE', 'MERGED', 'LINKED', 'UNLINK'",
        "shortDescription": null
    },
{
    "name": "sales_org_name",
    "udlName": "sales_org_name",
    "typeName": "string",
    "dbTable": "og_sales_org",
    "sourceTable": "og_sales_org_s",
    "rampTable": "og_sales_org_r",
    "dbColumn": "sales_org_name",
    "dbRampColumns": null,
    "contains": null,
    "keys": null,
    "immediate": false,
    "hidden": false,
    "key": false,
    "excludeInDoc": false,
    "required": false,
    "index": false,
    "allowCreate": true,
    "maxLength": null,
    "precision": null,
    "scale": null,
    "excludeFromRamp": false,
    "codeSourceName": null,
    "codeSet": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": false,
    "documentation": "The textual name for a sales organization.",
    "shortDescription": null
},
{
    "name": "OmniStatusReason",
    "udlName": "omniStatusReason",
    "typeName": "string",
    "dbTable": "og_sales_org",
    "sourceTable": "og_sales_org_s",

```

```

    "rampTable": "og_sales_org_r",
    "dbColumn": "status_reason",
    "dbRampColumns": null,
    "contains": null,
    "keys": null,
    "immediate": false,
    "hidden": true,
    "key": false,
    "excludeInDoc": false,
    "required": false,
    "index": false,
    "allowCreate": true,
    "maxLength": null,
    "precision": null,
    "scale": null,
    "excludeFromRamp": false,
    "codeSourceName": null,
    "codeSet": null,
    "cleanse": false,
    "match": false,
    "merge": false,
    "remediate": false,
    "system": true,
    "documentation": "Use to specify the reason for the status.",
    "shortDescription": null
  },
{
  "name": "sales_org_end_dt",
  "udlName": "sales_org_end_dt",
  "typeName": "date",
  "dbTable": "og_sales_org",
  "sourceTable": "og_sales_org_s",
  "rampTable": "og_sales_org_r",
  "dbColumn": "sales_org_end_dt",
  "dbRampColumns": null,
  "contains": null,
  "keys": null,
  "immediate": false,
  "hidden": false,
  "key": false,
  "excludeInDoc": false,
  "required": false,
  "index": false,
  "allowCreate": true,
  "maxLength": null,
  "precision": null,
  "scale": null,
  "excludeFromRamp": false,
  "codeSourceName": null,
  "codeSet": null,
  "cleanse": false,
  "match": false,

```

## Get All Metadata for a Subject

---

```
        "merge": false,
        "remediate": false,
        "system": false,
        "documentation": "The end date for a sales organization.",
        "shortDescription": null
    },
],
"lists": [],
"groups": []
},
"exception": null
}
```

## Get All Metadata for a Subject

Use the following REST call to return instance metadata for the specified subject.

### GET: /api/v1/metadata/{subject}

Returns detailed metadata for the subject instance. {subject} is the name of a subject defined in the project.

#### Example:

**GET** https://localhost:9500/api/v1/metadata/SalesOrg

#### – response –

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "com.ibi.omni.controller.services.metadata.SubjectDto",
  "response": {
    "name": "SalesOrg",
    "projectName": "CustomerAutoiwqaomnia",
    "bundleVersion": "CustomerAutoiwqaomnia_3_5_0_Alpha_10_190506131145",
    "bundleRelease": "3.5.0.Alpha.10",
    "instanceTable": "og_sales_org",
    "sourceTable": "og_sales_org_s",
    "rampTable": "og_sales_org_r",
    "instanceModel": {
      ...
    },
    "exception": null
  }
}
```

## Omni-Gen Source Management Services

---

This section describes the Omni-Gen source management services that you can use to document Omni interactions with external systems. They are available as part of the Omni-Gen Controller REST API.

You can use these source management services to document Omni interactions with external systems.

### In this chapter:

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---

### Source Management Services Terminology

A *source system* can be a system that provides Omni-Gen with data, a system that consumes data that has been processed by Omni-Gen, or an Omni-Gen system.

*Source Metadata* allows the user to enrich the definition of a source system by attaching additional facts about that system.

An *Integration Point* is a defined interaction between two source systems, such as an ETL process that loads data from an external system into one or more Omni-Gen ramp tables.

A *Source Mapping* associates an integration point with a specific subject in the Omni-Gen model. You can get a full description of a subject using the metadata services described above.

A *Source Mapping Item* is the atomic mapping between an item in the source mapping and an element of the subject in Omni-Gen, as defined in the IDS document. You can get a full description of an element, using the metadata services described above.

## Connect a Database and Issue a Query

This section provides an example of a process that connects to the Acme Corporation customer database and issues a query every night at midnight.

1. The following query is issued:

```
SELECT CUSTID, FNAME, MNAME, LNAME FROM CUSTOMER;
```

2. This data is loaded into the Customer ramp table in the production Omni-Gen environment.

This example includes two source systems, Acme and Omni. There is one integration point, the scheduled ETL job. There is one source mapping, from the ETL job to the Customer subject, and five mapping items, one for each of the Customer elements affected. Many of the examples below will relate to this scenario.

### Model

#### Source Entity

```
{
  "description": "string",
  "id": "string",
  "internalIndicator": true,
  "name": "string",
  "owningBusinessUnitId": "string",
  "owningBusinessUnitName": "string",
  "sensitivity": "string",
  "thirdPartyIntegratorId": "string",
  "thirdPartyIntegratorName": "string",
  "virtualIndicator": true
}
```

**Source Metadata Entity**

```
{
  "category": "string",
  "codeReference": "string",
  "endDate": {
    "day": 0,
    "month": 0,
    "year": 0
  },
  "id": "string",
  "omniSourceId": "string",
  "specVersion": "string",
  "startDate": {
    "day": 0,
    "month": 0,
    "year": 0
  },
  "subCategory": "string"
}
```

**Integration Point Entity**

```
{
  "earliestStartTime": {
    "hour": 0,
    "minute": 0
  },
  "expectedDuration": "string",
  "expectedSize": "string",
  "id": "string",
  "integrationDaysOfMonth": "string",
  "integrationDaysOfWeek": "string",
  "integrationDirection": "string",
  "integrationFrequency": "string",
  "integrationScope": "string",
  "latestEndTime": {
    "hour": 0,
    "minute": 0
  },
  "omniProcessingPolicy": "string",
  "sourceId": "string",
  "sourceLocation": {
    "domain": "string",
    "hostName": "string",
    "password": "string",
    "port": "string",
    "protocol": "string",
    "resourceLocation": "string",
    "resourceName": "string",
    "userName": "string"
  },
}
```

```
"sourceLocationType": "string",
"sourceResourceType": "string",
"targetId": "string",
"targetLocation": {
  "domain": "string",
  "hostName": "string",
  "password": "string",
  "port": "string",
  "protocol": "string",
  "resourceLocation": "string",
  "resourceName": "string",
  "userName": "string"
},
"targetLocationType": "string",
"targetResourceType": "string"
}
```

### Mapping Entity

```
{
  "description": "string",
  "id": "string",
  "integrationPointId": "string",
  "name": "string",
  "targetIdsId": "string",
  "version": "string"
}
```

### Mapping Item Entity

```
{
  "codeSet": "string",
  "codeSourceName": "string",
  "codeValue": "string",
  "id": "string",
  "idsDocElementId": "string",
  "linkSourceId": "string",
  "linkSourceName": "string",
  "mappedItem": "string",
  "mappingId": "string",
  "serviceLevelAgreement": "string"
}
```

## Create a Source System

Use the following REST call to create a new source system.

**POST: /api/v1/sourcesystem/create**

**Parameters (body):** Source Entity

**Content type:** application/json

Do not include the ID in the source entity when creating a new source system. A unique ID will be generated.

### Example:

**POST** https://localhost:9500/api/v1/sourcesystem/create

Content-Type: application/json

```
{
  "description": "Sellers of fine products since 1974",
  "internalIndicator": false,
  "name": "Acme",
  "owningBusinessUnitName": "Amalgamated Industries",
  "sensitivity": "insensitive",
  "thirdPartyIntegratorName": "Super Integration Services",
  "virtualIndicator": false
}
```

**-- response --**

```
{
  "status": "CREATED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
"com.ibi.omni.controller.services.sourcesystem.OmniSourceDto",
  "response": {
    "id": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
    "name": "Acme",
    "description": "Sellers of fine products since 1974",
    "owningBusinessUnitId": null,
    "owningBusinessUnitName": "Amalgamated Industries",
    "thirdPartyIntegratorId": null,
    "thirdPartyIntegratorName": "Super Integration Services",
    "internalIndicator": false,
    "virtualIndicator": false,
    "sensitivity": "insensitive"
  },
  "exception": null
}
```

## Update a Source System

Use the following REST call to update a source system.

**PUT:** /api/v1/sourcesystem/update

**Parameters (body):** Source Entity

**Content type:** application/json

**Example:**

**PUT** https://localhost:9500/api/v1/sourcesystem/update

Content-Type: application/json

```
{
  "id": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
  "description": "Sellers of fine products since 1975",
  "internalIndicator": false,
  "name": "Acme",
  "owningBusinessUnitName": "Amalgamated Industries",
  "sensitivity": "hyper sensitive",
  "thirdPartyIntegratorName": "Super Dooper Integration Services",
  "virtualIndicator": false
}
```

**- response -**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
  "com.ibi.omni.controller.services.sourcesystem.OmniSourceDto",
  "response": {
    "id": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
    "name": "Acme",
    "description": "Sellers of fine products since 1975",
    "owningBusinessUnitId": null,
    "owningBusinessUnitName": "Amalgamated Industries",
    "thirdPartyIntegratorId": null,
    "thirdPartyIntegratorName": "Super Dooper Integration Services",
    "internalIndicator": false,
    "virtualIndicator": false,
    "sensitivity": "hyper sensitive"
  },
  "exception": null
}
```

**Get a Source System By Name**

Use the following REST call to get a source system by name.

**GET:** /api/v1/sourcesystem/{name}

**Parameters:** Source Name

**Example:**

**GET** https://localhost:9500/api/v1/sourcesystem/Acme

**- response -**

```

{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
"com.ibi.omni.controller.services.sourcesystem.OmniSourceDto",
  "response": {
    "id": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
    "name": "Acme",
    "description": "Sellers of fine products since 1975",
    "owningBusinessUnitId": null,
    "owningBusinessUnitName": "Amalgamated Industries",
    "thirdPartyIntegratorId": null,
    "thirdPartyIntegratorName": "Super Dooper Integration Services",
    "internalIndicator": false,
    "virtualIndicator": false,
    "sensitivity": "hyper sensitive"
  },
  "exception": null
}

```

**List All Defined Source Systems**

Use the following REST call to list all source systems.

**GET:** /api/v1/sourcesystem

**Example:**

**GET** https://localhost:9500/api/v1/sourcesystem

### – response –

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.ArrayList",
  "response": [
    {
      "id": "a8be97a2-1688-4855-8d76-92f86095e292",
      "name": "Omni Prod",
      "description": "Production Omni System"
    },
    {
      "id": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
      "name": "Acme",
      "description": "Sellers of fine products since 1975"
    }
  ],
  "exception": null}
}
```

## List Source Systems That Contribute to a Subject

Use the following REST call to return all source systems that contribute to a subject.

**GET: /api/v1/sourcesystem?subject={subject}**

**Parameters (body):** Subject Name

Returns all source systems with integration points that have at least one mapping for the requested subject.

### Example:

**GET** https://server/api/v1/sourcesystem?subject=Customer

**-- response --**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.ArrayList",
  "response": [
    {
      "id": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
      "name": "Acme",
      "description": "Sellers of fine products since 1975"
    }
  ],
  "exception": null
}
"exception": null
}
```

**Delete a Source System**

Use the following REST call to delete a source system.

**DELETE: /api/v1/sourcesystem/delete/{id}**

**Parameters:** Source System ID

**Example:**

**DELETE** https://localhost:9500/api/v1/sourcesystem/delete/0276981d-1f09-401f-b097-a9f228faae86

**-- response --**

```
{
  "status": "ACCEPTED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": null,
  "response": null,
  "exception": null
}
```

**Add New Metadata to a Source System**

Use the following REST call to add metadata to a source system.

**POST: /api/v1/sourcesystem/metadata/create**

**Parameters (body):** Source Metadata Entity

**Content type:** application/json

Do not include the ID in the source metadata entity when creating a new source system. A unique ID will be generated. For the start and end date months, enter 0 for January and 11 for December. Do not use leading zeroes for the day, month, or year.

**Example:**

**POST** https://localhost:9500/api/v1/sourcesystem/metadata/create

Content-Type: application/json

```
{
  "omniSourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
  "specVersion": "1.0.0",
  "category": "Vendor",
  "subCategory": "Anvils",
  "startDate": {
    "day": 1,
    "month": 0,
    "year": 2019
  },
  "endDate": {
    "day": 2,
    "month": 0,
    "year": 2019
  }
}
```

**– response –**

```

{
  "status": "CREATED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
"com.ibi.omni.controller.services.sourcesystem.SourceMetadataDto",
  "response": {
    "id": "f9c9af9d-a6f9-4822-b9bf-9d0245e5ba4c",
    "omniSourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
    "codeReference": null,
    "category": "Vendor",
    "subCategory": "Anvils",
    "specVersion": "1.0.0",
    "startDate": {
      "year": 2019,
      "month": 0,
      "day": 1
    },
    "endDate": {
      "year": 2019,
      "month": 0,
      "day": 2
    }
  },
  "exception": null
}

```

**Update Metadata for a Source System**

Use the following REST call to update metadata for a source system.

**PUT: /api/v1/sourcesystem/metadata/update**

**Parameters (body):** Source Metadata Entity

**Content type:** application/json

For the start and end date months, enter 0 for January and 11 for December. Do not use leading zeroes for the day, month, or year.

**Example:**

**PUT** https://localhost:9500/api/v1/sourcesystem/metadata/update

Content-Type: application/json

```
{
  "id": "f9c9af9d-a6f9-4822-b9bf-9d0245e5ba4c",
  "omniSourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
  "specVersion": "1.0.0",
  "category": "Vendor",
  "subCategory": "Iron Anvils",
  "startDate": {
    "day": 1,
    "month": 0,
    "year": 2020
  },
  "endDate": {
    "day": 2,
    "month": 0,
    "year": 2020
  }
}
```

**-- response --**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
  "com.ibi.omni.controller.services.sourcesystem.SourceMetadataDto",
  "response": {
    "id": "f9c9af9d-a6f9-4822-b9bf-9d0245e5ba4c",
    "omniSourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
    "codeReference": null,
    "category": "Vendor",
    "subCategory": "Iron Anvils",
    "specVersion": "1.0.0",
    "startDate": {
      "year": 2020,
      "month": 0,
      "day": 1
    },
    "endDate": {
      "year": 2020,
      "month": 0,
      "day": 2
    }
  },
  "exception": null
}
```

## List All Metadata for a Source System

Use the following REST call to list metadata for a source system.

**GET: /api/v1/sourcesystem/metadatadata/{sourceId}****Example:**

**GET** https://localhost:9500/api/v1/sourcesystem/metadata/4e5b765f-b807-483b-8c56-1fcc683b0b98

**– response –**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.ArrayList",
  "response": [
    {
      "id": "f9c9af9d-a6f9-4822-b9bf-9d0245e5ba4c",
      "omniSourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
      "codeReference": null,
      "category": "Vendor",
      "subCategory": "Iron Anvils",
      "specVersion": "1.0.0",
      "startDate": {
        "year": 2020,
        "month": 0,
        "day": 1
      },
      "endDate": {
        "year": 2020,
        "month": 0,
        "day": 2
      }
    }
  ],
  "exception": null
}
```

**Delete a Metadata Item From a Source System**

Use the following REST call to delete a metadata item from a source system.

**DELETE: /api/v1/sourcesystem/metadata/delete/{Id}**

**Parameters:** Source Metadata ID

**Example:**

**DELETE** https://localhost:9500/api/v1/sourcesystem/metadata/delete/f9c9af9d-a6f9-4822-b9bf9d0245e5ba4c

### – response –

```
{
  "status": "ACCEPTED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": null,
  "response": null,
  "exception": null
}
```

## Create an Integration Point

Use the following REST call to create an integration point.

### POST: /api/v1/sourcesystem/integration/create

**Parameters (body):** Integration Point Entity

**Content type:** application/json

Do not include the ID in the integration point entity when creating a new integration point. A unique ID will be generated.

### Example:

**POST** <https://localhost:9500/api/v1/sourcesystem/integration/create>

Content-Type: application/json

```
{
  "earliestStartTime": {
    "hour": 11,
    "minute": 0
  },
  "expectedDuration": "1 hour",
  "expectedSize": "1000 rows",
  "integrationDirection": "TargetRequest",
  "integrationFrequency": "daily",
  "integrationScope": "PROD",
  "latestEndTime": {
    "hour": 1,
    "minute": 0
  },
  "sourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
  "sourceLocation": {
    "domain": "acme.com",
    "hostName": "ahost",
    "password": "secret",
    "port": "8080",
    "protocol": "jdbc",
    "resourceLocation": "/customers",
    "userName": "user"
  },
  "sourceLocationType": "database",
  "targetId": "a8be97a2-1688-4855-8d76-92f86095e292",
  "targetLocation": {
    "domain": "amalgamated.com",
    "hostName": "omniprod",
    "password": "secret",
    "port": "9500",
    "protocol": "http",
    "userName": "user"
  },
  "targetLocationType": "omni",
}
```

### - response -

```
{
  "status": "CREATED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
  "com.ibi.omni.controller.services.sourcesystem.IntegrationPointDto",
  "response": {
    "id": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
    "sourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
    "sourceLocationType": "database",
    "sourceLocation": {
      "protocol": "jdbc",
      "hostName": "ahost",
      "domain": "acme.com",
      "port": null,
      "userName": "user",
      "password": "secret",
      "resourceLocation": "/customers",
      "resourceName": null
    },
    "sourceResourceType": null,
    "targetId": "a8be97a2-1688-4855-8d76-92f86095e292",
    "targetLocationType": "omni",
    "targetLocation": {
      "protocol": "http",
      "hostName": "omniprod",
      "domain": "amalgamated.com",
      "port": null,
      "userName": "user",
      "password": "secret",
      "resourceLocation": null,
      "resourceName": null
    },
    "targetResourceType": null,
    "integrationScope": "PROD",
    "integrationDirection": "TargetRequest",
    "integrationFrequency": "daily",
    "integrationDaysOfWeek": null,
    "integrationDaysOfMonth": null,
    "earliestStartTime": {
      "hour": 11,
      "minute": 0
    },
    "latestEndTime": {
      "hour": 1,
      "minute": 0
    },
    "expectedDuration": "1 hour",
    "expectedSize": "1000 rows",
    "omniProcessingPolicy": null
  },
  "exception": null
}
```

## Update an Integration Point

Use the following REST call to update an integration point.

### PUT: /api/v1/sourcesystem/integration/create

**Parameters (body):** Integration Point Entity

**Content type:** application/json

#### Example:

**PUT** https://localhost:9500/api/v1/sourcesystem/integration/update

Content-Type: application/json

```
{
  "id": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
  "earliestStartTime": {
    "hour": 11,
    "minute": 30
  },
  "expectedDuration": "1 hour",
  "expectedSize": "5000 rows",
  "integrationDirection": "TargetRequest",
  "integrationFrequency": "daily",
  "integrationScope": "PROD",
  "latestEndTime": {
    "hour": 1,
    "minute": 30
  },
  "sourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
  "sourceLocation": {
    "domain": "acme.com",
    "hostName": "ahost",
    "password": "secret",
    "port": "8080",
    "protocol": "jdbc",
    "resourceLocation": "/customers",
    "userName": "user"
  },
  "sourceLocationType": "database",
  "targetId": "a8be97a2-1688-4855-8d76-92f86095e292",
  "targetLocation": {
    "domain": "amalgamated.com",
    "hostName": "omniprod",
    "password": "secret",
    "port": "9500",
    "protocol": "http",
    "userName": "user"
  },
  "targetLocationType": "omni"
}
```

**- response -**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
"com.ibi.omni.controller.services.sourcesystem.IntegrationPointDto",
  "response": {
    "id": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
    "sourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
    "sourceLocationType": "database",
    "sourceLocation": {
      "protocol": "jdbc",
      "hostName": "ahost",
      "domain": "acme.com",
      "port": null,
      "userName": "user",
      "password": "secret",
      "resourceLocation": "/customers",
      "resourceName": null
    },
    "sourceResourceType": null,
    "targetId": "a8be97a2-1688-4855-8d76-92f86095e292",
    "targetLocationType": "omni",
    "targetLocation": {
      "protocol": "http",
      "hostName": "omniprod",
      "domain": "amalgamated.com",
      "port": null,
      "userName": "user",
      "password": "secret",
      "resourceLocation": null,
      "resourceName": null
    }, "targetResourceType": "omni",
    "integrationScope": "PROD",
    "integrationDirection": "TargetRequest",
    "integrationFrequency": "daily",
    "integrationDaysOfWeek": null,
    "integrationDaysOfMonth": null,
    "earliestStartTime": {
      "hour": 11,
      "minute": 30
    },
    "latestEndTime": {
      "hour": 1,
      "minute": 30
    },
    "expectedDuration": "1 hour",
    "expectedSize": "5000 rows",
    "omniProcessingPolicy": null
  },
  "exception": null
}
```

## List All Integration Points for a Source System

Use the following REST call to list integration points for a source system.

**GET:** /api/v1/sourcesystem/integration/{sourceId}

### Example:

**GET** https://localhost:9500/api/v1/sourcesystem/integration/4e5b765f-b807-483b-8c56-1fcc683b0b98

**– response –**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.ArrayList",
  "response": [
    {
      "id": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
      "sourceId": "4e5b765f-b807-483b-8c56-1fcc683b0b98",
      "sourceLocationType": "database",
      "sourceLocation": {
        "protocol": "jdbc",
        "hostName": "ahost",
        "domain": "acme.com",
        "port": null,
        "userName": "user",
        "password": "secret",
        "resourceLocation": "/customers",
        "resourceName": null
      },
      "sourceResourceType": null,
      "targetId": "a8be97a2-1688-4855-8d76-92f86095e292",
      ...
    }
  ]
}
```

## Delete an Integration Point

Use the following REST call to delete an integration point.

**DELETE:** /api/v1/sourcesystem/integration/create

**Parameters:** Integration Point ID

### Example:

**DELETE** https://localhost:9500/api/v1/sourcesystem/integration/delete/f9c9af9d-a6f9-4822-b9bf9d0245ba4c

### - response -

```
{
  "status": "ACCEPTED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": null,
  "response": null,
  "exception": null
}
```

## Create a Mapping

Use the following REST call to create a new mapping.

### POST: /api/v1/sourcesystem/integration/mapping/create

**Parameters (body):** Mapping Entity

**Content type:** application/json

Do not include the ID in the mapping entity when creating a new mapping. A unique ID will be generated.

### Example:

**POST** https://localhost:9500/api/v1/sourcesystem/integration/mapping/create

Content-Type: application/json

```
{
  "description": "SELECT CUSTID, FNAME, MNAME, LNAME FROM CUSTOMER;",
  "integrationPointId": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
  "name": "Acme Customer",
  "targetIdsId": "36de029d-5baa-4f4a-8252-8d1c5c8c2b78",
  "version": "1.0.0"
}
```

**– response –**

```
{
  "status": "CREATED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
"com.ibi.omni.controller.services.sourcesystem.MappingDto",
  "response": {
    "id": "4ca397e9-7c39-432f-abe7-c150f193e11b",
    "name": "Acme Customer",
    "version": "1.0.0",
    "targetIdsId": "36de029d-5baa-4f4a-8252-8d1c5c8c2b78",
    "integrationPointId": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
    "description": "SELECT CUSTID, FNAME, MNAME, LNAME FROM CUSTOMER;"
  },
  "exception": null
}
```

**Update a Mapping**

Use the following REST call to update a mapping.

**PUT: /api/v1/sourcesystem/integration/mapping/update**

**Parameters (body):** Mapping Entity

**Content type:** application/json

**Example:**

**PUT** https://localhost:9500/api/v1/sourcesystem/integration/mapping/update

Content-Type: application/json

```
{
  "id": "4ca397e9-7c39-432f-abe7-c150f193e11b",
  "description": "SELECT CUSTID, FNAME, MNAME, LNAME FROM CUSTOMER;",
  "integrationPointId": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
  "name": "Acme Customer Database",
  "targetIdsId": "36de029d-5baa-4f4a-8252-8d1c5c8c2b78",
  "version": "1.0.0"
}
```

## List All Mappings for an Integration Point

---

### – response –

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
"com.ibi.omni.controller.services.sourcesystem.MappingDto",
  "response": {
    "id": "ac167bd5-c58b-4159-9019-7f2d4d57fa22",
    "name": "Acme Customer Database",
    "version": "1.0.0",
    "targetIdsId": "36de029d-5baa-4f4a-8252-8d1c5c8c2b78",
    "integrationPointId": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
    "description": "SELECT CUSTID, FNAME, MNAME, LNAME FROM CUSTOMER;"
  },
  "exception": null
}
```

## List All Mappings for an Integration Point

Use the following REST call to list all mappings for an integration point.

**GET:** `/api/v1/sourcesystem/integration/{integrationPointId}/mapping`

**Parameters:** Integration Point ID

### Example:

**GET** `https://localhost:9500/api/v1/sourcesystem/integration/6cb6d742-3f23-4095-a9d1-deaeb88edeaf/mapping`

**– response –**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.ArrayList",
  "response": [
    {
      "id": "4ca397e9-7c39-432f-abe7-c150f193e11b",
      "name": "Acme Customer",
      "version": "1.0.0",
      "targetIdsId": "36de029d-5baa-4f4a-8252-8d1c5c8c2b78",
      "integrationPointId": "6cb6d742-3f23-4095-a9d1-deaeb88edeaf",
      "description": "SELECT CUSTID, FNAME, MNAME, LNAME FROM CUSTOMER;"
    }
  ],
  "exception": null
}
```

**Delete a Mapping**

Use the following REST call to delete a mapping.

**DELETE:** `/api/v1/sourcesystem/integration/mapping/update`

**Parameters** Mapping ID

**Example:**

**DELETE** `https://localhost:9500/api/v1/sourcesystem/integration/mapping/delete/f9c9af9822-b9bf9d0245ba4c`

**– response –**

```
{
  "status": "ACCEPTED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": null,
  "response": null,
  "exception": null
}
```

**Create a Mapping Item**

Use the following REST call to create a new mapping item.

## POST: /api/v1/sourcesystem/integration/mapping/item/create

**Parameters (body):** Mapping Item Entity

**Content type:** application/json

Do not include the ID in the mapping item entity when creating a new mapping item. A unique ID will be generated.

### Example:

**POST** https://localhost:9500/api/v1/sourcesystem/integration/mapping/item/create

Content-Type: application/json

```
{
  "idsDocElementId": "62745a35-1790-4994-a39a-efb0dc63d142",
  "mappedItem": "FNAME",
  "mappingId": "4ca397e9-7c39-432f-abe7-c150f193e11b"
}
```

### – response –

```
{
  "status": "CREATED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
  "com.ibi.omni.controller.services.sourcesystem.MappingItemDto",
  "response": {
    "id": "cb1af21e-7335-4dbd-85fa-82eaf27d2634",
    "mappedItem": "FNAME",
    "mappingId": "4ca397e9-7c39-432f-abe7-c150f193e11b",
    "idsDocElementId": "62745a35-1790-4994-a39a-efb0dc63d142",
    "linkSourceName": null,
    "linkSourceId": null,
    "codeSourceName": null,
    "codeSet": null,
    "codeValue": null,
    "serviceLevelAgreement": null
  },
  "exception": null
}
```

## Update a Mapping Item

Use the following REST call to update a mapping item.

## PUT: /api/v1/sourcesystem/integration/mapping/item/update

**Parameters (body):** Mapping Item Entity

**Content type:** application/json

**Example:**

**PUT** https://localhost:9500/api/v1/sourcesystem/integration/mapping/item/update

Content-Type: application/json

```
{
  "id": "cblaf21e-7335-4dbd-85fa-82eaf27d2634",
  "mappedItem": "FNAME",
  "mappingId": "4ca397e9-7c39-432f-abe7-c150f193e11b",
  "idsDocElementId": "62745a35-1790-4994-a39a-efb0dc63d142",
  "serviceLevelAgreement": "super SLA"
}
```

**-- response --**

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType":
  "com.ibi.omni.controller.services.sourcesystem.MappingItemDto",
  "response": {
    "id": "cblaf21e-7335-4dbd-85fa-82eaf27d2634",
    "mappedItem": "FNAME",
    "mappingId": "4ca397e9-7c39-432f-abe7-c150f193e11b",
    "idsDocElementId": "62745a35-1790-4994-a39a-efb0dc63d142",
    "linkSourceName": null,
    "linkSourceId": null,
    "codeSourceName": null,
    "codeSet": null,
    "codeValue": null,
    "serviceLevelAgreement": "super SLA"
  },
  "exception": null
}
```

## List All Items for a Mapping

Use the following REST call to list all items for a mapping.

**GET:** /api/v1/sourcesystem/integration/mapping/{mappingId}

**Parameters:** Integration Point ID

**Example:**

**GET** https://localhost:9500/api/v1/sourcesystem/integration/mapping/  
4ca397e9-7c39-432f-abe7-c150f193e11b

### - response -

```
{
  "status": "OK",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": "java.util.ArrayList",
  "response": [
    {
      "id": "efc256fc-989a-49e7-85c0-316f7519db9a",
      "mappedItem": "MNAME",
      "mappingId": "4ca397e9-7c39-432f-abe7-c150f193e11b",
      "idsDocElementId": "ddf07c78-b8f8-4fde-9415-d114a9cfc1bc",
      "linkSourceName": null,
      "linkSourceId": null,
      "codeSourceName": null,
      "codeSet": null,
      "codeValue": null,
      "serviceLevelAgreement": null
    },
    {
      "id": "18440f2a-22c1-4c09-891a-bb82eedf5d6c",
      "mappedItem": "LNAME",
      "mappingId": "4ca397e9-7c39-432f-abe7-c150f193e11b",
      "idsDocElementId": "3f412216-f7ad-4f5a-a726-9ef54711b9a7",
      "linkSourceName": null,
      "linkSourceId": null,
      "codeSourceName": null,
      "codeSet": null,
      "codeValue": null,
      "serviceLevelAgreement": null
    }
  ],
  {
    "id": "cblaf21e-7335-4dbd-85fa-82eaf27d2634",
    "mappedItem": "FNAME",
    "mappingId": "4ca397e9-7c39-432f-abe7-c150f193e11b",
    "idsDocElementId": "62745a35-1790-4994-a39a-efb0dc63d142",
    "linkSourceName": null,
    "linkSourceId": null,
    "codeSourceName": null,
    "codeSet": null,
    "codeValue": null,
    "serviceLevelAgreement": "super SLA"
  }
],
  "exception": null
}
```

## Delete a Mapping Item

Use the following REST call to delete a mapping item.

**DELETE: /api/v1/sourcesystem/integration/mapping/item/delete/{itemId}****Parameters:** Mapping ID**Example:****DELETE** https://localhost:9500/api/v1/sourcesystem/integration/mapping/item/delete/f9c9af9822-b9bf95ba4c**– response –**

```
{
  "status": "ACCEPTED",
  "code": 0,
  "message": null,
  "developerMessage": null,
  "responseType": null,
  "response": null,
  "exception": null
}
```

**Load Mapping From Documentation**

Use the following REST call to load mappings from Microsoft Excel into the metadata repository.

**POST: /api/v1/sourcesystem/integration/mapping/load?int\_pt\_id={id}&subjects={s1,s2}****Parameters:**

*int\_pt\_id*: ID of the integration point to which this mapping belongs.

*subjects*: Optionally, a comma delimited list of specific subjects to load from the spreadsheet.

*excel\_file*: An Omni generated documentation file containing mappings from a source system to one or more subjects. These will correspond to sheet names in the spreadsheet.

When a model is deployed into Omni server, Excel spreadsheets are generated to allow users to document the mappings from external systems into Omni subjects. This service allows information captured in those spreadsheets to be loaded into the metadata repository.

**Example:**

**POST** /api/v1/sourcesystem/integration/mapping/load?int\_pt\_id=f9c9af9822-b9bf95ba4c&subjects=Customer

**- response -**

```
{  
  "status": "ACCEPTED",  
  "code": 0,  
  "message": null,  
  "developerMessage": null,  
  "responseType": null,  
  "response": null,  
  "exception": null  
}
```



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# iWay

## Omni-Gen™ Integration Edition API Services Reference Guide

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