

Migration

Use the [Gateway Migration Utility](#) to help facilitate migration.

The migration APIs allow you to move entities, including folders, services and policies from one Gateway to another.

The following is an overview of the migration workflow:

- 1. Export a bundle from the source Gateway.
- 2. Map entities as required.
- 3. Import the bundle into the target Gateway.

Exporting a Bundle

Send the following request to export a bundle.

Bundle Export Example

Request	
Uri	https://127.0.0.1:8443/restman/1.0/bundle?[[folder service policy]:
Http Method	GET
Response	
Http Status	200
Message Body	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <17:Item xmlns:17="http://ns.17tech.com/2010/04/gateway-management"> <17:Name>Bundle</17:Name> <17:Type>BUNDLE</17:Type> <17:TimeStamp>2014-01-13T11:43:01.482-08:00</17:TimeStamp> <17:Link/> <!-- This will contain the link used to generate this bundle. - ... <17:Resource> <17:Bundle> <!-- The bundle object --> <17:References> <!-- This is the list of entities that are in the <17:Item /> ... </17:References> <17:Mappings> <!-- This is the list of mappings. It describes how to create one mapping for every entity. A mapping may not reference a re migrated. They are in the order they should be created in so t <17:Mapping /> ... </17:Mappings> </17:Bundle> </17:Resource> </17:Item></pre>

The request URI contains query parameters of the folders, services or policies to export,

specified by their ids. You can also specify `all=true` to export all the entities on the gateway.

For example:

```
https://127.0.0.1:8443/restman/1.0/bundle?
folder=97cd0afb295cd2d823d0fdd43e720bbc&service=08890dfa5e893770ac234e5d5;
```

The above URI will bundle folder with ID 97cd0afb295cd2d823d0fdd43e720bbc, and services with ID 08890dfa5e893770ac234e5d5a43000b and 0ef0d5dd06fe67ab15b6a1b16517e0f5.

<https://127.0.0.1:8443/restman/1.0/bundle?all=true>

The above URI will bundle all the entities in the gateway.

Importing a Bundle

To import a bundle send a PUT request with the same bundle XML to `https://127.0.0.1:8443/restman/1.0/bundle`

Import Bundle Example

Request	
Uri	https://127.0.0.1:8443/restman/1.0/bundle
Http Method	PUT
Content-Type	application/xml
Message Body	<pre><l7:Bundle xmlns:l7="http://ns.l7tech.com/2010/04/gateway-management"> <!-- Th <l7:References> <!-- This is the list of entities that are in the bundle. <l7:Item /> ... </l7:References> <l7:Mappings> <!-- This is the list of mappings. It describes how to cre one mapping for every entity. A mapping may not reference migrated. They are in the order they should be created in <l7:Mapping /> ... </l7:Mappings> </l7:Bundle></pre>
Response	
Http Status	200
Message Body	

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<l7:Item xmlns:l7="http://ns.l7tech.com/2010/04/gateway-management">
  <l7:Name>Bundle mappings</l7:Name>
  <l7:Type>BUNDLE MAPPINGS</l7:Type>
  <l7:TimeStamp>2014-04-01T15:20:04.222-07:00</l7:TimeStamp>
  <l7:Link rel="self" uri="https://127.0.0.1:8443/restman/1.0/bundle"/>
  <l7:Resource>
    <l7:Mappings>
      <l7:Mapping />
      ...
    </l7:Mappings>
  </l7:Resource>
</l7:Item>
```

The response will contain a list of mappings describing the actions that were performed during the bundle import. If bundle import failed for any reason, the mappings will describe the errors.

Mapping the Entities

Mapping Attributes

The mapping section in a bundle describes how to import the entities listed in the resource section when the bundle is imported. Default mappings are automatically created when the bundle is exported. The mapping section has the following attributes:

type	Type of entity being mapped	
scrId	Source ID of the service being mapping; this normally references an entity in the bundle resources section	
srcUri	Source URI to retrieve the entity from the Gateway	
targetId	During bundle import, this ID instructs the importer to map this entity with the given target ID. The bundle importer will return a list of the mappings that were made (i.e., ID of the entity that was mapped or created on the target Gateway during import).	
targetUri	Target uri of the entity that was mapped or created.	
action	The possible mapping actions are as follows:	
	NewOrExisting	If an existing entity is found on the target Gateway, map to this existing entity (no update occurs). If an existing entity is not found, then create a new one on the target Gateway.
	NewOrUpdate	If an existing entity is found on the target Gateway, map to this existing entity and update it using information from the bundle. If an existing entity is not found, then create a new one on the target Gateway.
	AlwaysCreateNew	If an existing entity is found on the target Gateway,

		then create a new one with a different ID. If an existing entity is not found, then create a new one with the source ID.
	Delete	If an existing entity is found on the target Gateway it will be removed. If an existing entity is not found, then nothing will happen and bundle import will continue (this will not fail bundle import)
	Ignore	Ignore this entity and do not import it.
actionTaken	This is the action that was taken during the import. This attribute is only returned by the bundle import results. The possible actions are as follows:	
	UsedExisting	The entity was mapped to an existing entity on the target Gateway. The target entity was not updated.
	UpdatedExisting	The entity was mapped to an existing entity on the target Gateway and the target entity was updated.
	CreatedNew	A new entity was created on the target Gateway.
	Deleted	The entity was deleted on the target gateway.
	Ignored	The entity was ignored and not imported. If the action was Delete and the action taken was Ignored that means that a target entity could not be found to be deleted.
errorType	This is set if there was an error attempting to import the entity. The possible errors are as follows:	
	TargetExists	A new entity was supposed to be created but an entity already exists on the target Gateway. See the FailOnExisting property.
	TargetNotFound	An existing entity should exist on the target Gateway but it cannot be found. See the FailOnNew property.
	UniqueKeyConflict	There is an entity on the target Gateway with a conflicting unique key (usually name) as the one that is being created or updated.
	CannotReplaceDependency	An error occurred when replacing an entity's dependencies.
	InvalidResource	A problem occurred when updating an entity.

Simple Mapping Examples

NewOrExisting

This will create a new entity or reuse an existing one:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsource/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting" />
```

Possible Responses

An entity with the same ID exists on the target Gateway and this existing entity was used:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsource/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  actionTaken="UsedExisting"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" />
```

An entity with the same ID does NOT exist on the target Gateway and a new entity with the specified ID was created:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsource/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  actionTaken="CreatedNew"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" />
```

An entity with the same ID does NOT exist on the target Gateway but one with a conflicting unique key was present instead, resulting in a 409 error response:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsource/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  errorType="UniqueKeyConflict" >
    <l7:Properties>
      <l7:Property key="ErrorMessage">
        <l7:StringValue>(name) must be unique</l7:StringValue>
      </l7:Property>
    </l7:Properties>
  </l7:Mapping>
```

NewOrUpdate

This will create a new entity or update an existing one:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate" />
```

Possible Responses

An entity with the same ID exists on the target Gateway. This entity has been updated using the entity in the import bundle:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate"
  actionTaken="UpdatedExisting"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" />
```

An entity with the same ID does NOT exist on the target Gateway and a new entity with the ID specified was created:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate"
  actionTaken="CreatedNew"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" />
```

An entity with the same ID does NOT exist on the target Gateway, but an entity with a conflicting unique key is present instead. Alternatively, an entity with the same ID exists, but unique key errors occurred when updating it, resulting in a 409 error response:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate"
  errorType="UniqueKeyConflict" >
  <l7:Properties>
    <l7:Property key="ErrorMessage">
      <l7:StringValue>(name) must be unique</l7:StringValue>
    </l7:Property>
  </l7:Properties>
</l7:Mapping>
```

AlwaysCreateNew

This will create a new entity:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="AlwaysCreateNew" />
```

Possible Responses

An entity with the same ID exists on the target Gateway, resulting in a new entity with a new ID being created on the target Gateway.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="AlwaysCreateNew"
  actionTaken="CreatedNew"
  targetId="8756846868e6eb676bf4ed8a9bfba04b"
  targetUri="https://ssgtarget/restman/1.0/policies/8756846868e6eb676bf4ed8a9bfba04b" />
```

An entity with the same ID does NOT exist on the target Gateway, resulting in a new entity being created with the specified ID.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="AlwaysCreateNew"
  actionTaken="CreatedNew"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" />
```

The entity created has unique key conflicts with an entity on the Gateway, resulting in a 409 error response:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="AlwaysCreateNew"
  errorType="UniqueKeyConflict" >
    <l7:Properties>
      <l7:Property key="ErrorMessage">
        <l7:StringValue>(name) must be unique</l7:StringValue>
      </l7:Property>
    </l7:Properties>
  </l7:Mapping>
```

Delete

This will delete an entity:

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="Delete" />
```

Possible Responses

An entity with the same ID exists on the target Gateway, resulting in the entity being deleted on the target Gateway.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="Delete"
  actionTaken="Deleted"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" />
```

An entity with the same ID does NOT exist on the target Gateway, resulting in no entity being deleted.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="Delete"
  actionTaken="Ignored" />
```

Ignore

This will ignore the entity. No attempt will be made to import the entity.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="Ignore" />
```

Possible Responses

There is only one possible response.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  actionTaken="Ignored" />
```


Mapping Properties

A mapping can also have properties specified. Properties are specified as a key value map. The currently supported properties are:

FailOnExisting	<p>This is a boolean property that can be applied to any mapping type. If true it will fail with a 409 if an entity with the same ID exists on the target. The possible values are 'true' or 'false'. If this is not specified false is assumed. Example Failure response:</p> <pre><l7:mapping type="POLICY" srcId="97cd0afb295cd2d823d0fdd43e720bbc" srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" errorType="TargetExists" /></pre>
FailOnNew	<p>This is a boolean property that can be applied to any mapping type. If true it will fail with a 409 if an entity with the same ID DOES NOT EXIST on the target. The possible values are 'true' or 'false'. If this is not specified false is assumed. Example Failure response:</p> <pre><l7:mapping type="POLICY" srcId="97cd0afb295cd2d823d0fdd43e720bbc" srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" errorType="TargetNotFound" /></pre>
MapBy	<p>This can specify the unique key to map the target by. The possible values are 'name' or 'guid'. If this is not specified mapping is done by the ID. There is also a special mapping, 'mapByRoleEntity', this is used to map auto created role to an auto created role on the target gateway. This mapping is automatically set when doing a full gateway export.</p>
MapTo	<p>This allows mapping to a different entity. The default is to map to an entity on the target with the same mapTo property. This is only used with the mapBy property.</p>

Complex Mapping Examples

Mapping by Name

Map a policy to a policy on the target Gateway with the same name.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate" >
  <l7:Properties>
    <l7:property key="mapBy" value="name" />
  </l7:Properties>
</l7:mapping>
```

Possible Responses

If an entity with the same Name DOES NOT exist on the target Gateway this will create a new entity with the ID specified.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate" >
  actionTaken="CreatedNew"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" >
  <l7:Properties>
    <l7:property key="mapBy" value="name" />
  </l7:Properties>
</l7:mapping>
```

If an entity with the same Name exist on the target Gateway this will update the entity.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate" >
  actionTaken="UpdatedExisting"
  targetId="8756846868e6eb676bf4ed8a9bfba04b"
  targetUri="https://ssgtarget/restman/1.0/policies/8756846868e6eb676bf4ed8a9bfba04b" >
  <l7:Properties>
    <l7:property key="mapBy" value="name" />
  </l7:Properties>
</l7:mapping>
```

If an entity with the same Name DOES NOT exist on the target Gateway but one with the same ID does, this will fail.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrUpdate" >
  errorType="UniqueKeyConflict"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc" >
  <l7:Properties>
    <l7:Property key="ErrorMessage">
      <l7:StringValue>Other entity exists with the given id: 97cd0afb295cd2d823d0fdd43e720bbc</l7:StringValue>
    </l7:Property>
    <l7:Property key="MapBy">
      <l7:StringValue>name</l7:StringValue>
    </l7:Property>
  </l7:Properties>
</l7:Mapping>
```



Mapping by Name to a Specific Entity

Map a service to a service on the target Gateway with a specific name.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>
```

Possible Responses

If an entity with the target name DOES NOT exist on the target Gateway this will create a new entity with the ID specified, and the mapTo name ("MyTargetService").

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  actionTaken="CreatedNew"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>
```

If an entity with the target name exist on the target Gateway this will do nothing, used the existing service.

```
<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  actionTaken="UsedExisting"
  targetId="8756846868e6eb676bf4ed8a9bfba04b"
  targetUri="https://ssgtarget/restman/1.0/policies/8756846868e6eb676bf4ed8a9bfba04b" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>
```

If an entity with the target name DOES NOT exist on the target Gateway but one with the same ID does, this will fail.

```

<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  errorType="UniqueKeyConflict"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" >
  <l7:Properties>
    <l7:Property key="ErrorMessage">
      <l7:StringValue>Other entity exists with the given id: 7d428d5529fece370bc3cb5b44027ba0</l7:Property>
    </l7:Property>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>

```

Mapping by ID where Entity Must Exist on the Target

Map a service to a service on the target Gateway. The service must exist on the target Gateway.

```

<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting" >
  <l7:Properties>
    <l7:property key="FailOnNew" value="true" />
  </l7:Properties>
</l7:mapping>

```

Possible Responses

If an entity with the same ID DOES NOT exist on the target Gateway this will fail.

```

<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  errorType="TargetNotFound" >
  <l7:Properties>
    <l7:property key="FailOnNew" value="true" />
  </l7:Properties>
</l7:mapping>

```

If an entity with the same ID exist on the target Gateway this will do nothing, used the existing service.

```

<l7:mapping
  type="POLICY"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc"
  action="NewOrExisting"
  actionTaken="UsedExisting"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/policies/97cd0afb295cd2d823d0fdd43e720bbc" >
  <l7:Properties>
    <l7:property key="FailOnNew" value="true" />
  </l7:Properties>
</l7:mapping>

```

Mapping by Name to Specific Entity Do Not Fail on ID Clash

Map a service to a service on the target Gateway with a specific name. Do not fail if a service with the same ID exists on the target Gateway.

```

<l7:mapping
  type="SERVICE"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/services/97cd0afb295cd2d823d0fdd43e720bbc"
  action="AlwaysCreateNew" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>

```

Possible Responses

If an entity with the same Name DOES NOT exist on the target Gateway this will create a new entity with the ID specified, and the mapTo name ("MyTargetService").

```

<l7:mapping
  type="SERVICE"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/services/97cd0afb295cd2d823d0fdd43e720bbc"
  actionTaken="CreatedNew"
  targetId="97cd0afb295cd2d823d0fdd43e720bbc"
  targetUri="https://ssgtarget/restman/1.0/services/97cd0afb295cd2d823d0fdd43e720bbc" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>

```

If an entity with the same Name exist on the target Gateway this will fail with unique key conflict.

```

<l7:mapping
  type="SERVICE"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/services/97cd0afb295cd2d823d0fdd43e720bbc"
  errorType="UniqueKeyConflict"
  targetId="8756846868e6eb676bf4ed8a9bfba04b"
  targetUri="https://ssgtarget/restman/1.0/services/8756846868e6eb676bf4ed8a9bfba04b" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>

```

If an entity with the same Name DOES NOT exist on the target Gateway but one with the same ID does, this will create a new entity with a new ID, and the mapTo name ("MyTargetService").

```

<l7:mapping
  type="SERVICE"
  srcId="97cd0afb295cd2d823d0fdd43e720bbc"
  srcUri="https://ssgsources/restman/1.0/services/97cd0afb295cd2d823d0fdd43e720bbc"
  actionTaken="CreatedNew"
  targetId="8756846868e6eb676bf4ed8a9bfba04b"
  targetUri="https://ssgtarget/restman/1.0/services/8756846868e6eb676bf4ed8a9bfba04b" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
  </l7:Properties>
</l7:mapping>

```

Delete by Name a Specific Entity Fail if Entity Does Not Exist

Delete a service on the target gateway with the name 'MyTargetService'. If the service does not exist fail the bundle import.

```

<l7:mapping
  type="SERVICE"
  action="Delete" >
  <l7:Properties>
    <l7:property key="MapBy" value="name" />
    <l7:property key="MapTo" value="MyTargetService" />
    <l7:property key="FailOnNew" value="true" />
  </l7:Properties>
</l7:mapping>

```

Possible Responses

If an entity with the same Name exists on the target Gateway this will delete the entity.

```

<l7:mapping
  type="SERVICE"
  action="Delete"
  actionTaken="Deleted"
  targetId="8756846868e6eb676bf4ed8a9bfba04b"
  targetUri="https://ssgtarget/restman/1.0/services/8756846868e6eb676bf4ed8a9bfba04b" >
<l7:Properties>
  <l7:property key="MapBy" value="name" />
  <l7:property key="MapTo" value="MyTargetService"
  <l7:property key="FailOnNew" value="true" />
</l7:Properties>
</l7:mapping>

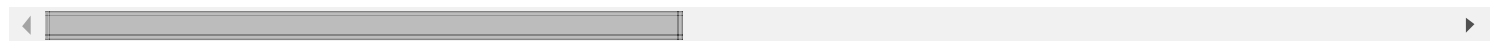
```

If an entity with the same Name DOES NOT exist on the target Gateway this will fail.

```

<l7:mapping
  type="SERVICE"
  action="Delete" >
<l7:Properties>
  <l7:Property key="ErrorMessage">
    <l7:StringValue>Could not locate entity: Fail on new specified and could not locate exist
  </l7:Property>
  <l7:property key="MapBy" value="name" />
  <l7:property key="MapTo" value="MyTargetService"
  <l7:property key="FailOnNew" value="true" />
</l7:Properties>
</l7:mapping>

```



If an entity with the same Name exist on the target Gateway this will fail with unique key conflict.

Supporting Large Migrations

In order to support large migrations you may need to increase the maximum message size that the target Gateway can accept. In order to do that either:

- Edit the *io.xml/PartMaxBytes* cluster property to increase the maximum message size that can be accepted by the Gateway.
- Or, override the maximum message size in the listening port properties.

Migration Example

For an example migration work-flow see:

<https://127.0.0.1:8443/restman/1.0/doc/migration-example.html>

