**Service Catalog Management API   
Conformance Profile**

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# INTRODUCTION - API DESCRIPTION

This document is the REST API conformance profile for the Service Catalog Management REST API v2.0 (TMF633)

# RESOURCE MODEL CONFORMANCE

## API MANDATORY AND OPTIONAL RESOURCES

For the resources defined by the API fill the following table and indicate which ones are mandatory and which ones are optional.

|  |  |  |
| --- | --- | --- |
| Resource Name | Mandatory or Optional | Comments |
| ServiceCatalog | O |  |
| ServiceCategory | O |  |
| ServiceCandidate | M |  |
| ServiceSpecification | M |  |
| ImportJob | M |  |
| ExportJob | M |  |

## Service Catalog MANDATORY AND OPTIONAL ATTRIBUTES

The table below summarizes mandatory and optional attributes for resource "ServiceCatalog"

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Mandatory or Optional** | **Comments** |
| id | M (in response messages) O (otherwise) | Generated by the server |
| href | M (in response messages) O (otherwise) | Url for the created resource |
| name | M (for resource creation) O (otherwise) |  |
| description | O |  |
| @type | O | Attribute non patchable |
| @schemaLocation | O |  |
| @baseType | O |  |
| version | O |  |
| validFor | O |  |
| lastUpdate | M (in response messages) O (otherwise) | Attribute non patchable |
| lifecycleStatus | M (in response messages) O (otherwise) |  |

## Service Category MANDATORY AND OPTIONAL ATTRIBUTES

The table below summarizes mandatory and optional attributes for resource "ServiceCategory"

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Mandatory or Optional** | **Comments** |
| id | M (in response messages) O (otherwise) | Generated by the server |
| href | M (in response messages) O (otherwise) | Url for the created resource |
| name | M (for resource creation) O (otherwise) |  |
| description | O |  |
| @type | M (in response messages) O (otherwise) | Attribute non patchable |
| @schemalLocation | O |  |
| @baseType | O |  |
| version | O |  |
| validFor | O |  |
| lifecycleStatus | M (in response messages) O (otherwise) |  |
| lastUpdate | M (in response messages) O (otherwise) | Attribute non patchable |
| parentId | O |  |
| isRoot | M (in response messages) O (otherwise) |  |
| relatedParty | O |  |
| serviceCandidate | O |  |
| category | O |  |

## Service Candidate MANDATORY AND OPTIONAL ATTRIBUTES

The table below summarizes mandatory and optional attributes for resource "ServiceCandidate"

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Mandatory or Optional** | **Comments** |
| id | M (in response messages) O (otherwise) | Generated by the server |
| href | M (in response messages) O (otherwise) | Url for the created resource |
| name | M (for resource creation) O (otherwise) |  |
| description | O |  |
| @type | O | Attribute non patchable |
| @schemaLocation | O |  |
| @baseType | O |  |
| version | O |  |
| validFor | O |  |
| lastUpdate | M (in response messages) O (otherwise) | Attribute non patchable |
| lifecycleStatus | M (in response messages) O (otherwise) |  |
| category | O |  |
| serviceSpecification | M |  |

## Service Specification MANDATORY AND OPTIONAL ATTRIBUTES

The table below summarizes mandatory and optional attributes for resource "ServiceSpecification"

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Mandatory or Optional** | **Comments** |
| id | M (in response messages) O (otherwise) | Generated by the server |
| href | M (in response messages) O (otherwise) | Url for the created resource |
| name | M (for resource creation) O (otherwise) |  |
| description | O |  |
| @type | M (for resource creation) O (otherwise) | Attribute non patchable |
| @schemaLocation | O |  |
| @baseType | O |  |
| version | O |  |
| validFor | O |  |
| lastUpdate | O | Attribute non patchable |
| lifecycleStatus | M (in response messages) O (otherwise) |  |
| isBundle | M (in response messages) O (otherwise) |  |
| resourceSpecification | O |  |
| attachment | O |  |
| serviceSpecCharacteristic | O |  |
| relatedParty | O |  |
| serviceSpecRelationship | O |  |
| targetServiceSchema | O |  |

## Import Job MANDATORY AND OPTIONAL ATTRIBUTES

The table below summarizes mandatory and optional attributes for resource "ImportJob"

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Mandatory or Optional** | **Comments** |
| id | M (in response messages) O (otherwise) | Generated by the server |
| href | M (in response messages) O (otherwise) | Url for the created resource |
| contentType | O |  |
| path | O |  |
| status | O |  |
| url | M (for resource creation) O (otherwise) |  |
| completionDate | O |  |
| creationDate | O |  |
| errorLog | O |  |

## Export Job MANDATORY AND OPTIONAL ATTRIBUTES

The table below summarizes mandatory and optional attributes for resource "ExportJob"

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Mandatory or Optional** | **Comments** |
| id | M (in response messages) O (otherwise) | Generated by the server |
| href | M (in response messages) O (otherwise) | Url for the created resource |
| query | O |  |
| path | O |  |
| contentType | O |  |
| status | O |  |
| url | M (for resource creation) O (otherwise) |  |
| completionDate | O |  |
| creationDate | O |  |
| errorLog | O |  |

# NOTIFICATION MODEL CONFORMANCE

The Pub/Sub models are common and described in the TMF REST Design Guidelines. Use the following templates to describe the Hub Mandatory and Optional attributes and filtering support.

## API MANDATORY AND OPTIONAL NOTIFICATIONS

For the Notifications defined by the API the following table indicates which ones are mandatory and which ones are optional.

|  |  |  |
| --- | --- | --- |
| Notification Name | Mandatory or Optional | Comments |
| ServiceCatalogCreationNotification | O |  |
| ServiceCatalogRemoveNotification | O |  |
| ServiceCatalogBatchNotification | O |  |
| ServiceCategoryCreationNotification | O |  |
| ServiceCategoryRemoveNotification | O |  |
| ServiceCandidateCreationNotification | O |  |
| ServiceCandidateRemoveNotification | O |  |
| ServiceSpecificationCreationNotification | O |  |
| ServiceSpecificationRemoveNotification | O |  |

All attributes of the resource associated with the notification are mandatory

# API OPERATIONS CONFORMANCE

For every single resource use the following templates and define what operations are optional and what operations are mandatory.

## API MANDATORY AND OPTIONAL OPERATIONS

The following table indicates which ones are mandatory and which ones are optional for each one of the resources in the API (default is for all resources).

|  |  |  |
| --- | --- | --- |
| Uniform API Operation | Mandatory/Optional | Comments |
| GET | M for all resources | GET must be used to retrieve a representation of a resource |
| POST | M for resources:  ServiceCatalog ServiceCategory ServiceCandidate ServiceSpecification ImportJob ExportJob | POST must be used to create a new resource |
| PUT | O for all resources |  |
| PATCH | M for resources:  ServiceCatalog ServiceCategory ServiceCandidate ServiceSpecification ImportJob ExportJob | PATCH must be used to partially update a resource |
| DELETE | M for resources:  ServiceCatalog ServiceCategory ServiceCandidate ServiceSpecification ImportJob ExportJob | DELETE must be used to remove a resource |

# API GET OPERATION CONFORMANCE

For every single resource use the following template to specify the mandatory and optional features supported by the GET operation.

**Definitions**

**Filtered Search:** A filtered search can be applied using query parameters in order to obtain only the resource entities that meet the criteria defined by the filtering parameters included in the query request. Several elements can be applied to the filtered search. In that case logic, a logical AND is applied to combine the criteria (e.g.:?severity=<value> &status=<value>)

**Attribute selection (Filtered Response Data):** In order to apply a filter and limit the number of attributes included in the response, the GET request can include the “?fields=” query parameter. Several elements can be applied to the filter. In that case, a logical AND is applied to combine the values (e.g.:?fields=severity,status) will provide in the response only the values assigned to attributes category and channel. Attribute selection capabilities are the same for collections retrieval and individual resource queries

All the GET operations in this API share the same status code pattern.

|  |  |  |
| --- | --- | --- |
| GET | M |  |
| Response Status Code 200 | M |  |
| Other Status Codes | NA |  |

## /serviceCatalog?fields=...&{filtering}

This operation list service catalog entities.  
Attribute selection is mandatory for all first level attributes.  
Filtering is mandatory for first compliance level (L1) and optional otherwise.

## /serviceCatalog/{id}?fields=...&{filtering}

This operation retrieves a service catalog entity.  
Attribute selection is mandatory for all first level attributes.  
Filtering on sub-resources is optional for all compliance levels.

## /serviceCategory?fields=...&{filtering}

This operation list service category entities.  
Attribute selection is mandatory for all first level attributes.  
Filtering is mandatory for first compliance level (L1) and optional otherwise.

## /serviceCategory/{id}?fields=...&{filtering}

This operation retrieves a service category entity.  
Attribute selection is mandatory for all first level attributes.  
Filtering on sub-resources is optional for all compliance levels.

## /serviceCandidate?fields=...&{filtering}

This operation list service candidate entities.  
Attribute selection is mandatory for all first level attributes.  
Filtering is mandatory for first compliance level (L1) and optional otherwise.

## /serviceCandidate/{id}?fields=...&{filtering}

This operation retrieves a service candidate entity.  
Attribute selection is mandatory for all first level attributes.  
Filtering on sub-resources is optional for all compliance levels.

## /serviceSpecification?fields=...&{filtering}

This operation list service specification entities.  
Attribute selection is mandatory for all first level attributes.  
Filtering is mandatory for first compliance level (L1) and optional otherwise.

## /serviceSpecification/{id}?fields=...&{filtering}

This operation retrieves a service specification entity.  
Attribute selection is mandatory for all first level attributes.  
Filtering on sub-resources is optional for all compliance levels.

## /importJob?fields=...&{filtering}

This operation list import job entities.  
Attribute selection is mandatory for all first level attributes.  
Filtering is mandatory for first compliance level (L1) and optional otherwise.

## /importJob/{id}?fields=...&{filtering}

This operation retrieves an import job entity.  
Attribute selection is mandatory for all first level attributes.  
Filtering on sub-resources is optional for all compliance levels.

## /exportJob?fields=...&{filtering}

This operation list export job entities.  
Attribute selection is mandatory for all first level attributes.  
Filtering is mandatory for first compliance level (L1) and optional otherwise.

## /exportJob/{id}?fields=...&{filtering}

This operation retrieves an export job entity.  
Attribute selection is mandatory for all first level attributes.  
Filtering on sub-resources is optional for all compliance levels.

# API POST OPERATION CONFORMANCE

All the POST operations in this API share the same status code pattern.

|  |  |  |
| --- | --- | --- |
| POST | M |  |
| Status Code 201 | M |  |
| Other Status Codes | NA | Status error code like 400, 404, 409 as applicable |

## /serviceCatalog

This operation creates a service catalog entity.

**Mandatory and Non Mandatory Attributes**

The following tables provides the list of mandatory and non mandatory attributes when creating a ServiceCatalog, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

|  |  |
| --- | --- |
| Mandatory Attributes | Rule |
| name |  |

|  |  |  |
| --- | --- | --- |
| Non Mandatory Attributes | Default Value | Rule |
| description |  |  |
| @type | ServiceCatalog |  |
| @schemaLocation |  |  |
| @baseType | Catalog |  |
| version |  |  |
| validFor |  |  |
| lastUpdate |  |  |
| lifecycleStatus |  |  |

## /serviceCategory

This operation creates a service category entity.

**Mandatory and Non Mandatory Attributes**

The following tables provides the list of mandatory and non mandatory attributes when creating a ServiceCategory, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

|  |  |
| --- | --- |
| Mandatory Attributes | Rule |
| name |  |

|  |  |  |
| --- | --- | --- |
| Non Mandatory Attributes | Default Value | Rule |
| description |  |  |
| @type | ServiceCategory |  |
| @schemalLocation |  |  |
| @baseType | Category |  |
| version |  |  |
| validFor |  |  |
| lifecycleStatus |  |  |
| lastUpdate |  |  |
| parentId |  |  |
| isRoot |  |  |
| relatedParty |  |  |
| serviceCandidate |  |  |
| category |  |  |

## /serviceCandidate

This operation creates a service candidate entity.

**Mandatory and Non Mandatory Attributes**

The following tables provides the list of mandatory and non mandatory attributes when creating a ServiceCandidate, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

|  |  |
| --- | --- |
| Mandatory Attributes | Rule |
| name |  |

|  |  |  |
| --- | --- | --- |
| Non Mandatory Attributes | Default Value | Rule |
| description |  |  |
| @type | ServiceCandidate |  |
| @schemaLocation |  |  |
| @baseType |  |  |
| version |  |  |
| validFor |  |  |
| lastUpdate |  |  |
| lifecycleStatus |  |  |
| category |  |  |
| serviceSpecification |  |  |

## /serviceSpecification

This operation creates a service specification entity.

**Mandatory and Non Mandatory Attributes**

The following tables provides the list of mandatory and non mandatory attributes when creating a ServiceSpecification, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

|  |  |
| --- | --- |
| Mandatory Attributes | Rule |
| name |  |
| @type |  |

|  |  |  |
| --- | --- | --- |
| Non Mandatory Attributes | Default Value | Rule |
| description |  |  |
| @schemaLocation |  |  |
| @baseType |  |  |
| version |  |  |
| validFor |  |  |
| lastUpdate |  |  |
| lifecycleStatus |  |  |
| isBundle | false |  |
| resourceSpecification |  |  |
| attachment |  |  |
| serviceSpecCharacteristic |  |  |
| relatedParty |  |  |
| serviceSpecRelationship |  |  |
| targetServiceSchema |  |  |

**Additional Rules**

The following table provides additional rules indicating mandatory fields in sub-resources or relationships when creating a ServiceSpecification resource.

|  |  |
| --- | --- |
| Context | Mandatory Sub-Attributes |
| attachment | name |
| relatedParty | id or href |
| serviceSpecRelationship | type, id or href |

## /importJob

This operation creates an import job entity.

**Mandatory and Non Mandatory Attributes**

The following tables provides the list of mandatory and non mandatory attributes when creating a ImportJob, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

|  |  |
| --- | --- |
| Mandatory Attributes | Rule |
| url |  |

|  |  |  |
| --- | --- | --- |
| Non Mandatory Attributes | Default Value | Rule |
| contentType |  |  |
| path |  |  |
| status |  |  |
| completionDate |  |  |
| creationDate |  |  |
| errorLog |  |  |

## /exportJob

This operation creates an export job entity.

**Mandatory and Non Mandatory Attributes**

The following tables provides the list of mandatory and non mandatory attributes when creating a ExportJob, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

|  |  |
| --- | --- |
| Mandatory Attributes | Rule |
| url |  |

|  |  |  |
| --- | --- | --- |
| Non Mandatory Attributes | Default Value | Rule |
| query |  |  |
| path |  |  |
| contentType |  |  |
| status |  |  |
| completionDate |  |  |
| creationDate |  |  |
| errorLog |  |  |

# API PUT OPERATION CONFORMANCE

Since PUT operation is optional and not included in the certification this is not applicable in this conformance document.

# API PATCH OPERATION CONFORMANCE

All the PATCH operations in this API share the same status code pattern.

|  |  |  |
| --- | --- | --- |
| PATCH | M |  |
| Status Code 201 | M |  |
| Other Status Codes | NA | Status error code like 400, 404, 409 as applicable |

## /serviceCatalog/{id}

This operation allows partial updates of a service catalog entity. Support of json/merge (https://tools.ietf.org/html/rfc7386) is mandatory, support of json/patch (http://tools.ietf.org/html/rfc5789) is optional.  
  
Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

**Patchable and Non Patchable Attributes**

The tables below provide the list of patchable and non patchable attributes, including constraint rules on their usage.  
Notice that patching is possible only for 'admin' API users.

|  |  |
| --- | --- |
| Patchable Attributes | Rule |
| name |  |
| description |  |
| @schemaLocation |  |
| @baseType |  |
| version |  |
| validFor |  |
| lifecycleStatus |  |

|  |  |
| --- | --- |
| Non Patchable Attributes | Rule |
| id |  |
| href |  |
| @type |  |
| lastUpdate |  |

## /serviceCategory/{id}

This operation allows partial updates of a service category entity. Support of json/merge (https://tools.ietf.org/html/rfc7386) is mandatory, support of json/patch (http://tools.ietf.org/html/rfc5789) is optional.  
  
Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

**Patchable and Non Patchable Attributes**

The tables below provide the list of patchable and non patchable attributes, including constraint rules on their usage.  
Notice that patching is possible only for 'admin' API users.

|  |  |
| --- | --- |
| Patchable Attributes | Rule |
| name |  |
| description |  |
| @schemalLocation |  |
| @baseType |  |
| version |  |
| validFor |  |
| lifecycleStatus |  |
| parentId |  |
| isRoot |  |
| relatedParty |  |
| serviceCandidate |  |
| category |  |

|  |  |
| --- | --- |
| Non Patchable Attributes | Rule |
| id |  |
| href |  |
| @type |  |
| lastUpdate |  |

## /serviceCandidate/{id}

This operation allows partial updates of a service candidate entity. Support of json/merge (https://tools.ietf.org/html/rfc7386) is mandatory, support of json/patch (http://tools.ietf.org/html/rfc5789) is optional.  
  
Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

**Patchable and Non Patchable Attributes**

The tables below provide the list of patchable and non patchable attributes, including constraint rules on their usage.  
Notice that patching is possible only for 'admin' API users.

|  |  |
| --- | --- |
| Patchable Attributes | Rule |
| name |  |
| description |  |
| @schemaLocation |  |
| @baseType |  |
| version |  |
| validFor |  |
| lifecycleStatus |  |
| category |  |
| serviceSpecification |  |

|  |  |
| --- | --- |
| Non Patchable Attributes | Rule |
| id |  |
| href |  |
| @type |  |
| lastUpdate |  |

## /serviceSpecification/{id}

This operation allows partial updates of a service specification entity. Support of json/merge (https://tools.ietf.org/html/rfc7386) is mandatory, support of json/patch (http://tools.ietf.org/html/rfc5789) is optional.  
  
Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

**Patchable and Non Patchable Attributes**

The tables below provide the list of patchable and non patchable attributes, including constraint rules on their usage.  
Notice that patching is possible only for 'admin' API users.

|  |  |
| --- | --- |
| Patchable Attributes | Rule |
| name |  |
| description |  |
| @schemaLocation |  |
| @baseType |  |
| version |  |
| validFor |  |
| lifecycleStatus |  |
| isBundle |  |
| resourceSpecification |  |
| attachment |  |
| serviceSpecCharacteristic |  |
| relatedParty |  |
| serviceSpecRelationship |  |
| targetServiceSchema |  |

|  |  |
| --- | --- |
| Non Patchable Attributes | Rule |
| id |  |
| href |  |
| lastUpdate |  |
| @type |  |

# API DELETE OPERATION CONFORMANCE

All the DELETE operations in this API share the same status code pattern.

|  |  |  |
| --- | --- | --- |
| DELETE | M |  |
| Status Code 200 | M |  |
| Other Status Codes | NA | Status error code like 400, 404, 409 as applicable |

## /serviceCatalog/{id}

This operation deletes a service catalog entity.

## /serviceCategory/{id}

This operation deletes a service category entity.

## /serviceCandidate/{id}

This operation deletes a service candidate entity.

## /serviceSpecification/{id}

This operation deletes a service specification entity.

## /importJob/{id}

This operation deletes an import job entity.

## /exportJob/{id}

This operation deletes an export job entity.

# API CONFORMANCE TEST SCENARIOS

This section describes the test scenarios required for the basic CONNECT certification of the API.

Test Cases must be executed in the order defined for each resource because the result from one of the scenarios will be input for the next one.

Requests must be addressed to the endpoint provided for certification, specifically they must be addressed to the URI defined by the concatenation of the {apiRoot} and the specific resource, where the {apiRoot} is defined as **{serverRoot}/catalogManagement/v2**, where {serverRoot} defines the certification endpoint.

ServiceCandidate resource TEST CASES

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| **Test Case ID** | **Title** | **Description** |
| TC\_ServiceCandidate\_POST\_N1 | Create Service Candidate | Pre-requisite: it should be ServiceSpecification exist as result of TC\_ServiceSpecification\_POST\_N1   1. Send POST message to {apiRoot}/serviceCandidate/ with all mandatory parameters and supported optional parameters to create a new ServiceCandidate such as:  |  | | --- | | {  “name”: “<anytext>”,  “description”: “<anytext>”,  “lifecycleStatus”: “Active”,  "@type": "ServiceCandidate",  “validFor”:  {  “startDateTime”: ”<any value with correct datetime format>”,  “endDateTime”: “<any value with correct datetime format>”  },  "serviceSpecification": {  "id": “<any valid id value which identifying an existing service specification>”,   "href": “<any valid href value which addressing an existing service specification>”,   "name": “<anytext>”  }} |  1. Verify the response with code 201, location header set to url of the created resource and body including full representation of the created resource |
| TC\_ServiceCandidate\_POST\_N2 | Create Service Candidate with missing mandatory parameter | Pre-requisite: None   1. Send POST message to {apiRoot}/serviceCandidate/ without mandatory parameters like name to create a new ServiceCandidate 2. Verify that server rejects the request by sending the proper response code/error message |
| TC\_ServiceCandidate\_GET\_N3 | Search for Service Candidates- no filtering | Pre-requisite: create multiple ServiceCandidate as per TC\_ServiceCandidate\_POST\_N1   1. Send a GET message to /{apiRoot}/serviceCandidate 2. Verify the response with code 200, 3. Ensure that all created ServiceCandidate items are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ServiceCandidate\_GET\_N4 | Search for Service Candidates with filtering | Pre-requisite: create multiple ServiceCandidate as per TC\_ServiceCandidate\_POST\_N1   1. Send a GET message to /{apiRoot}/serviceCandidate with filtering of mandatory parametrs as defined in API GET Filtering Operation Conformance like name 2. Verify the response with code 200, 3. Ensure that all created ServiceCandidate items which match the filter criteria are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ServiceCandidate\_GET\_N5 | Search for Service Candidates with filtering and selected attributes | 1. Pre-requisite: create multiple ServiceCandidate as per TC\_ServiceCandidate\_POST\_N1 2. Send a GET message to /{apiRoot}/serviceCandidate with filtering of mandatory parametrs like name and selection attibutes as defined in API GET Filtering Operation Conformance 3. Verify the response with code 200, 4. Ensure that all created ServiceCandidate items which match the filter criteria are returned in the body of response 5. Ensure that the response message includes only selected parameters 6. Ensure that the body of the response for each resource and selected fields matches the values in the original POST request |
| TC\_ServiceCandidate\_DELETE\_N1 | Delete an existing Service Candidate | Pre-requisite: create ServiceCandidate as per TC\_ServiceCandidate\_POST\_N1   1. Send a DELETE message to /{apiRoot}/serviceCandidate/{ID} in which ID is identifier of existing ServiceCandidate item 2. Verify the response with code 204, 3. Ensure that the ServiceCandidate item is deleted from the list of available resource candidates |
| TC\_ServiceCandidate\_PATCH\_N1 | update an existing Service Candidate with only patchable parameters | Pre-requisite: create ServiceCandidate as per TC\_ServiceCandidate\_POST\_N1   1. Send a PATCH message using json/merge to /{apiRoot}/serviceCandidate/{ID} in which ID is identifier of existing ServiceCandidate item. Include all patchable fields to update the ServiceCandidate 2. Verify the response with code 200, 3. Verify that response body includes all modified fields |
| TC\_ServiceCandidate\_PATCH\_N2 | update an existing Service Candidate with non-patchable parameters | Pre-requisite: create ServiceCandidate as per TC\_ServiceCandidate\_POST\_N1   1. Send a PATCH message using json/merge to /{apiRoot}/serviceCandidate/{ID} in which ID is identifier of existing ServiceCandidate item. Include non-patchable fields like lastUpdate, @type, href and id with different value(s) than existing one(s) to update the ServiceCandidate 2. Verify the response with error code 400, |

ServiceSpecification resource TEST CASES

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| **Test Case ID** | **Title** | **Description** |
| TC\_ServiceSpecification\_POST\_N1 | Create Service Specification | Pre-requisite: None   1. Send POST message to {apiRoot/serviceSpecification/ with all mandatory parameters and supported optional parameters to create a new ServiceSpecification such as:  |  | | --- | | {  “name”: “<anytext>”,  “description”: “<anytext>”,  “lifecycleStatus”: “Active”,  "@type": "CustomerFacingServiceSpecification",  “validFor”:  {  “startDateTime”: ”<any value with correct datetime format>”,  “endDateTime”: “<any value with correct datetime format>”  },  "serviceSpecCharacteristic": [  {  "name": “<anytext>”,   "description": “<anytext>”,   "valueType": “<anytext>”,   "validFor": {  "startDateTime": ”<any value with correct datetime format>”,  "endDateTime": ”<any value with correct datetime format>”  },   "@type": "ServiceSpecCharacteristic",   "@schemaLocation": ”<any text in url format>”,  "minCardinality": 0,   "maxCardinality": 1,   "serviceSpecCharRelationship": [   ],  "serviceSpecCharacteristicValue":[  {  "value": “<anytext>”, "validFor": {  "startDateTime": ”<any value with correct datetime format>”, "endDateTime": ”<any value with correct datetime format>”  }  }  ]  }  ],  "serviceSpecRelationship": []  } |  1. Verify the response with code 201, location header set to url of the created resource and body including full representation of the created resource |
| TC\_ServiceSpecification\_POST\_N2 | Create Service Specification with missing mandatory parameter | Pre-requisite: None   1. Send POST message to {apiRoot/serviceSpecification/without mandatory parameters like name and type to create a new ServiceSpecification 2. Verify that server rejects the request by sending the proper response code/error message |
| TC\_ServiceSpecification\_GET\_N3 | Search for Service Specifications- no filtering | Pre-requisite: create multiple ServiceSpecification items as per TC\_ServiceSpecification\_POST\_N1   1. Send a GET message to /{apiRoot/serviceSpecification 2. Verify the response with code 200, 3. Ensure that all created ServiceSpecification items are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ServiceSpecification\_GET\_N4 | Search for Service Specifications with filtering | Pre-requisite: create multiple ServiceSpecification resources as per TC\_ServiceSpecification\_POST\_N1   1. Send a GET message to /{apiRoot/serviceSpecification with filtering of mandatory parametrs as defined in API GET Filtering Operation Conformance like name 2. Verify the response with code 200, 3. Ensure that all created ServiceSpecification items which match the filter criteria are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ServiceSpecification\_GET\_N5 | Search for Service Specifications with filtering and selected attributes | Pre-requisite: create multiple ServiceSpecification resources items as per TC\_ServiceSpecification\_POST\_N1   1. Send a GET message to /{apiRoot/serviceSpecification with filtering of mandatory parametrs like name and selection attibutes as defined in API GET Filtering Operation Conformance 2. Verify the response with code 200, 3. Ensure that all created ServiceSpecification items which match the filter criteria are returned in the body of response 4. Ensure that the response message includes only selected parameters 5. Ensure that the body of the response for each resource and selected fields matches the values in the original POST request |
| TC\_ServiceSpecification\_DELETE\_N1 | Delete an existing Service Specification | Pre-requisite: create ServiceSpecification as per TC\_ServiceSpecification\_POST\_N1   1. Send a DELETE message to /{apiRoot/serviceSpecification/{ID} in which ID is identifier of existing ServiceSpecification item 2. Verify the response with code 204, 3. Ensure that the ServiceSpecification item is deleted from the list of available resource specifications |
| TC\_ServiceSpecification\_PATCH\_N1 | update an existing Service Specification with only patchable parameters | Pre-requisite: create ServiceSpecification as per TC\_ServiceSpecification\_POST\_N1   1. Send a PATCH message using json/merge to /{apiRoot/serviceSpecification/{ID} in which ID is identifier of existing ServiceSpecification item. Include all patchable fields to update the ServiceSpecification 2. Verify the response with code 200, 3. Verify that response body includes all modified fields |
| TC\_ServiceSpecification\_PATCH\_N2 | update an existing Service Specification with non-patchable parameters | Pre-requisite: create ServiceSpecification as per TC\_ServiceSpecification\_POST\_N1   1. Send a PATCH message using json/merge to /{apiRoot/serviceSpecification/{ID} in which ID is identifier of existing ServiceSpecification item. Include non-patchable fields like lastUpdate, @type, href and id with different value(s) than existing one(s) to update the ServiceSpecification. 2. Verify the response with error code 400, |

ImportJob resource TEST CASES

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| **Test Case ID** | **Title** | **Description** |
| TC\_ImportJob\_POST\_N1 | Create an Import Job | Pre-requisite: None   1. Send POST message to {apiRoot}/importJob/with all mandatory parameters and supported optional parameters to create a new ImportJob such as:  |  | | --- | | {  "url": “<http://catalogMangement/projects/myProject/>”,  “path”: “c:/catalogManagement/projects/myProject.zip” } |  1. Verify the response with code 201, location header set to url of the created resource and body including full representation of the created resource |
| TC\_ImportJob\_POST\_N2 | Create Import Job with missing mandatory parameter | Pre-requisite: None   1. Send POST message to {apiRoot}/importJob/without mandatory parameters like url to create a new ImportJob 2. Verify that server rejects the request by sending the proper response code/error message |
| TC\_ImportJob\_GET\_N3 | Search for Import Jobs- no filtering | Pre-requisite: create multiple ImportJob items as per TC\_ImportJob\_POST\_N1   1. Send a GET message to /{apiRoot}/importJob 2. Verify the response with code 200, 3. Ensure that all created ImportJob items are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ImportJob\_GET\_N4 | Search for Import Jobs with filtering | Pre-requisite: create multiple ImportJob resources as per TC\_ImportJob\_POST\_N1   1. Send a GET message to /{apiRoot}/importJob with filtering of mandatory parametrs as defined in API GET Filtering Operation Conformance like name 2. Verify the response with code 200, 3. Ensure that all created ImportJob items which match the filter criteria are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ImportJob\_GET\_N5 | Search for Import Jobs with filtering and selected attributes | Pre-requisite: create multiple ImportJob as per TC\_ImportJob\_POST\_N1   1. Send a GET message to /{apiRoot}/importJob with filtering of mandatory parametrs like name and selection attibutes as defined in API GET Filtering Operation Conformance 2. Verify the response with code 200, 3. Ensure that all created ImportJob items which match the filter criteria are returned in the body of response 4. Ensure that the response message includes only selected parameters 5. Ensure that the body of the response for each resource and selected fields matches the values in the original POST request |
| TC\_ImportJob\_DELETE\_N1 | Delete an existing Import Job | Pre-requisite: create ImportJob as per TC\_ImportJob\_POST\_N1   1. Send a DELETE message to /{apiRoot}/importJob/{ID} in which ID is identifier of existing ImportJob item 2. Verify the response with code 204, 3. Ensure that the ImportJob item is deleted from the list of available import jobs |

ExportJob resource TEST CASES

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| **Test Case ID** | **Title** | **Description** |
| TC\_ExportJob\_POST\_N1 | Create an Export Job | Pre-requisite: (Service) Catalog should be populated with (service) catalog entities like ServiceSpecification, ServiceCandidate, and so on.   1. Send POST message to {apiRoot}/exportJob/with all mandatory parameters and supported optional parameters to create a new ExportJob such as:  |  | | --- | | {  "url": “[http://hostname:port/catalogMangement/serviceCandidate/](http://hostname:port/catalogMangement/resourceCandidate/)”,  “path”: “c:/catalogManagement/projects/RC/” } |  1. Verify the response with code 201, location header set to url of the created resource and body including full representation of the created resource |
| TC\_ExportJob\_POST\_N2 | Create Export Job with missing mandatory parameter | Pre-requisite: Pre-requisite: (Service) Catalog should be populated with (service) catalog entities like ServiceSpecification, ServiceCandidate, and so on.   1. Send POST message to {apiRoot}/exportJob/without mandatory parameters like url to create a new ExportJob 2. Verify that server rejects the request by sending the proper response code/error message |
| TC\_ExportJob\_GET\_N3 | Search for Export Jobs- no filtering | Pre-requisite: create multiple ExportJob items as per TC\_ExportJob\_POST\_N1   1. Send a GET message to /{apiRoot}/exportJob 2. Verify the response with code 200, 3. Ensure that all created ExportJob items are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ExportJob\_GET\_N4 | Search for Export Jobs with filtering | Pre-requisite: create multiple ExportJob as per TC\_ExportJob\_POST\_N1   1. Send a GET message to /{apiRoot}/exportJob with filtering of mandatory parametrs as defined in API GET Filtering Operation Conformance like name 2. Verify the response with code 200, 3. Ensure that all created ExportJob items which match the filter criteria are returned in the body of response 4. Ensure that the response message includes all mandatory parameters and specified optional parameters 5. Ensure that the body of the response for each resource matches the values in the original POST request |
| TC\_ExportJob\_GET\_N5 | Search for Export Jobs with filtering and selected attributes | Pre-requisite: create multiple ExportJob items as per TC\_ExportJob\_POST\_N1   1. Send a GET message to /{apiRoot}/exportJob with filtering of mandatory parametrs like name and selection attibutes as defined in API GET Filtering Operation Conformance 2. Verify the response with code 200, 3. Ensure that all created ExportJob items which match the filter criteria are returned in the body of response 4. Ensure that the response message includes only selected parameters 5. Ensure that the body of the response for each resource and selected fields matches the values in the original POST request |
| TC\_ExportJob\_DELETE\_N1 | Delete an existing Export Job | Pre-requisite: create ExportJob as per TC\_ExportJob\_POST\_N1   1. Send a DELETE message to /{apiRoot}/exportJob/{ID} in which ID is identifier of existing ExportJob item 2. Verify the response with code 204, 3. Ensure that the ExportJob item is deleted from the list of available export jobs |

Release History

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| **Release Number** | **Date** | **Release led by:** | **Description** |
| Release 1.0 | 8/30/2017 | Kamal Maghsoudlou  Ericsson  [kamal.maghsoudlou@ericsson.com](mailto:kamal.maghsoudlou@ericsson.com) | First Release of Draft Version of the Document. |

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