



Frameworkx Specification

Activation and Configuration API REST Specification

TMF640
Release 15.5.1
May 2016

Latest Update: Frameworkx Release 15.5	TM Forum Approved
Version 1.0.2	IPR Mode: RAND

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INTRODUCTION

The following document is intended to provide details of the REST API for Activation and Configuration.

Although all the examples are relative to Services the same API can be used to Activate and Configure Services or Resources.

RESOURCE MODEL

Managed Entity and Task Resource Models

Service

Services (CFS or RFS) may be activated or configured by the Activation and Configuration API.

```
{
  "id" : "id1234567890",
  "href" : "http://..",
  "state" : "active",
  "serviceSpecification":{
    "id":"conferenceBridgeEquipment",
    "href":"http: //serverlocation:port/catalogManagement/serv
iceSpecification /conferenceBridgeEquipment"
  },
  "serviceCharacteristic":[
    {
      "name":"numberOfVc500Units",
      "value":"1"
    },
    {
      "name":"numberOfVc100Units",
      "value":"2"
    },
    {
      "name":"routerType",
      "value":"CiscoASR1000"
    },
    {
      "name":"powerSupply",
      "value":"UK"
    }
  ]
}
"serviceRelationship" : [{
  "type" : "contains",
  "service" : {
    "id": "43",
    "href" : "
http://server:port/inventoryApi/service/44"
...May contain the fully embedded service or only an hyperlink

  }
}],
"supportingService":[
```

```

    {
      "id": "59",
      "href": " http://server:port/inventoryApi/service/59"
...   May contain the fully embedded service or only an hyperlink
    }],
    "supportingResource": [
      {
        "id": "46779",
        "her":http://server:port/inventoryApi/logicalPort/46779
... May contain the fully embedded resource or only an hyperlink
      }],
      "relatedParty": [
        {
          "role": "Owner",
          "id": "1234",
          "href": "http
://serverLocation:port/partyManagement/partyRole/1234"
        }
      ]
    }
  }
}

```

Service attributes description (these are as per the Service model as used in the Service Inventory specification:

Field	Description
id	Identifier of a service instance. Required to be unique. Used in URIs as the identifier of the service (for modify or delete use cases)
href	Reference to the owned Service (useful for delete or modify command)
category	The category of the service (e.g. CFS, RFS)
name	The name of the service
description	A description of the service (what it provides)
serviceState	The lifecycle state of the service (as per state diagram below)
serviceSpecification	The service specification (default values, etc. are fetched from the catalogue)
serviceConfigSpec	Ordered service config (default values, etc. are fetched from the catalogue)
policy	
serviceCharacteristic	A name/value pair list used to store instance specific values of attributes The behavior is equivalent to a MAP data structure where only one entry for any given value of "name" can exist.
serviceRelationship	Linked Services to the one instantiate, it can be : <ul style="list-style-type: none"> “reliesOn” if the Service needs another already owned Service to rely on (e.g. an option on an already owned mobile access Service) “targets” or “isTargeted” (depending on the way of expressing the link) for any other kind of links that may be useful
relatedParty	Party linked at the Service level (it may be a User for example)


```

"usageState": "<<value>>",
"version": "",

  "resourceSpecification":{
    "id":"conferenceBridgeEquipment",
    "href":"http://serverlocation:port/catalogManagement/resourceSpecification/conferenceBridgeEquipment"
  },
  "resourceCharacteristic":[
    {
      "name":"x",
      "value":"1"
    },
    {
      "name":"y",
      "value":"2"
    },
    {
      "name":"z",
      "value":"3"
    }
  ]},
"resourceRelationship" : [{
  "type" : "contains",
  "resource" : {
    "id": "43",
    "href" : "...",
    ....May contain the fully embedded service or only an hyperlink

  }
}],

"relatedParty": [
{
  "role": "Owner",
  "id": "1234",
  "href": "http://serverLocation:port/partyManagement/partyRole/1234"
}]
}

```

Monitor

The monitor resource is used to monitor the execution of async requests on specific resource.

```
{
```

```

    "id": "",
    "state": "MonitorState",
    "type": "monitor"
    "request": {
      "method": "",
      "to": "",
      "body": "",
      "header": [
        {
          "name": "",
          "value": ""
        }
      ]
    },
    "response": {
      "statusCode": "",
      "body": "",
      "header": [
        {
          "name": "",
          "value": ""
        }
      ]
    },
    "href": "",
    "sourceHref": "http://.."
  }

```

Fields	Description
id	Identifier of an instance of the monitor. Required to be unique within the resource type. Used in URIs as the identifier for specific instances of a type.
type	Name of the resource type i.e monitor
request	Represent the request
response	Represent the response
state	The Monitor state of the resource. InProgress, InError, Completed
href	The self ref
sourceHref	The monitored resource href

Notification Resource Models

SERVICECREATIONNOTIFICATION

Used to notify that a service has just been newly provisioned

```
{
  "event": {
    "service": {
      {
        "id": "42",
        // Following a whole representation of the
        Service with all its attributes
        See Service Resource.
      }
    },
    "eventType": "serviceCreationNotification"
  }
}
```

SERVICEVALUECHANGENOTIFICATION

Used to notify that a service has been re-provisioned (and some values changed)

```
{
  "event": {
    "service": {
      {
        "id": "42",
        // Following a whole representation of the
        Service with all its attributes
        See Service Resource.
      }
    }
  },
  "eventType": "serviceValueChangeNotification"
}
```

SERVICESTATECHANGENOTIFICATION

Used to notify that a service state has just changed

```
{
  "event": {
    "service": {
      {
        "id": "42",
        "state": "Inactive"
      }
    },
  },
}
```

```
    "eventType": "serviceStateChangeNotification"
  }
```

SERVICEDELETIONNOTIFICATION

Used to notify that a service has been deleted.

```
{
  "event": {
    "service": {
      "id": "42"
    }
  },
  "eventType": "serviceDeletionNotification"
}
```

RESOURCEVALUECHANGENOTIFICATION

Used to notify that a service has been re-provisioned (and some values changed)

```
{
  "event": {
    "resource": {
      "id": "42",
      // Following a whole representation of the
      Resource with all its changed attributes
    }
  },
  "eventType": "resourceValueChangeNotification"
}
```

RESOURCESTATECHANGENOTIFICATION

Used to notify that a resource state has just changed

```
{
  "event": {
```

```
    "resource":
    {
        "id": "42",
        "adminState": "newstate"
    },
    "eventType": "resourceStateChangeNotification"
}
```

RESOURCEDELETIONNOTIFICATION

Used to notify that a resource has been deleted.

```
{
  "event": {
    "resource":
    {
      "id": "42"
    }
  },
  "eventType": "resourceDeletionNotification"
}
```

RESOURCECREATENOTIFICATION

Used to notify that a resource has been created

```
{
  "event": {
    "resource":
    {
      "id": "42",
      // Following a whole representation of the
      Resource with all its changed attributes
    }
  },
  "eventType": "resourceCreateNotification"
}
```

MONITORCREATIONNOTIFICATION

Used to notify that a resource was created in the inventory

```
{
  "event": {
    "monitor": {
      "id": "",
      "type": "monitor",
      "state": "MonitorState",
      "request": {
        "method": "",
        "to": "",
        "body": "",
        "header": [
          {
            "name": "",
            "value": ""
          }
        ]
      },
      "response": {
        "body": "",
        "statusCode": "",
        "header": [
          {
            "name": "",
            "value": ""
          }
        ]
      },
      "href": ""
    }
  },
  "eventType": "monitorCreationNotification"
}
```

MONITORVALUECHANGENOTIFICATION

Used to notify that a resource value was modified in the inventory

```
{
  "event": {
    "monitor": {
      "id": "",
```

```
    "type": "monitor",
    "state": "MonitorState",
    "request": {
      "method": "",
      "to": "",
      "body": "",
      "header": [
        {
          "name": "",
          "value": ""
        }
      ]
    },
    "response": {
      "body": "",
      "statusCode": "",
      "header": [
        {
          "name": "",
          "value": ""
        }
      ]
    },
    "href": ""
  },
  "eventType": "monitorValueChangeNotification"
}
```

MONITORSTATECHANGENOTIFICATION

Used to notify

```
{
  "event": {
    "monitor": {
      "id": "",
      "type": "monitor",
      "state": "MonitorState",
      "request": {
        "method": "",
        "to": "",
        "body": "",
        "header": [
          {
            "name": "",
```

```
        "value": ""
      }
    ]
  },
  "response": {
    "body": "",
    "statusCode": "",
    "header": [
      {
        "name": "",
        "value": ""
      }
    ]
  },
  "href": ""
}
},
"eventType": "monitorStateChangeNotification"
}
```

MONITOREDELETIONNOTIFICATION

Used to notify

```
{
  "event": {
    "id": "http://server/api/activation/monitor/77"
  },
  "eventType": "monitorDeletionNotification"
}
```

API OPERATION TEMPLATES

For every single of operation on the entities use the following templates and provide sample REST requests and responses.

Remember that the following Uniform Contract rules must be used :

Operation on Entities	Uniform API Operation	Description
Query Entities	GET service	GET must be used to retrieve a representation of a service.
Create Entity	POST service	POST must be used to create a new service
Partial Update of an Entity	PATCH service	PATCH must be used to partially update a service
Remove an Entity	DELETE service	DELETE must be used to remove a service
Execute a Task	POST service	POST must be used to execute Task Resources
Other Request Methods	POST service	Creating a graph.

Filtering and attribute selection rules are described in the TMF REST Design Guidelines.

Notifications are also described in a subsequent section.

GET /API/SERVICE/{ID}

This operation is used to retrieve service items.

The same API can be used for retrieving Resources (if the management scope of the controller is relative to Resources). i.e GET /API/RESOURCE/{ID}

Note that collections can be retrieved via GET /API/service with no {ID}

Description :

- This operation is used to retrieve service information using the ID
- Attribute selection is enabled

Behavior :

- Status code 200 - if the request was successful
- Status code 404 Not found - the supplied ID does not match a known Service

REQUEST
<pre>GET /api/activation/service/id1234567890 Accept: application/json</pre>
RESPONSE
<pre>200 Content-Type: application/json { "id" : "id1234567890", "state" : "Active", "serviceSpecification":{ "id":"conferenceBridgeEquipment", "href":"http: //serverlocation:port/catalogManagement/serv iceSpecification /conferenceBridgeEquipment" }, "serviceCharacteristic":[{ "name":"numberOfVc500Units", "value":"1" }, { "name":"numberOfVc100Units", "value":"2" }, { "name":"routerType", "value":"CiscoASR1000" }, { </pre>

```

        "name": "powerSupply",
        "value": "UK"
    }
  ]}
}

```

POST /API/ACTIVATION/SERVICE

POST operations are used to create a service.

The same API can be used for creating Resources (if the management scope of the controller is relative to Resources). i.e POST /API/RESOURCE/{ID}

Example 1 : The response of the operation cannot be sent back synchronously, a “monitor” resource hyperlink is given in the Response.

See TM Forum REST Design Guidelines for more information about asynchronous pattern and monitor resources.

REQUEST

```

POST /api/activation/service
Accept: application/json

```

```

{
  "state" : "Active",
  "serviceSpecification":{
    "id":"conferenceBridgeEquipment",
    "href":"http: //serverlocation:port/catalogManagement/serv
iceSpecification /conferenceBridgeEquipment"
  },
  "serviceCharacteristic":[
    {
      "name": "numberOfVc500Units",
      "value": "1"
    },
    {
      "name": "numberOfVc100Units",
      "value": "2"
    },
    {
      "name": "routerType",
      "value": "CiscoASR1000"
    },
    {
      "name": "powerSupply",
      "value": "UK"
    }
  ]
}

```

<pre> }]} }</pre>
<p>RESPONSE</p> <p>202 Accepted Content-Type: Application/JSON Location: http://server/api/activation/service/14</p> <pre> { // same as in request }</pre> <p>Link: <http://server/api/activation/monitor/1514>;rel=related;title=monito r, <http://server/api/activation/service/14>;rel=self, <http://server/api/activation/service/14>;rel=canonical</p>

Example 2 : The response of the operation cannot be sent back synchronously, a “monitor” resource hyperlink is given in the Response. This is done under the control of the client.

A client may request the server to modify its asynchronous behavior with the following “Expect” headers:

- “Expect: 200-ok/201-created/204-no-content” **disables all asynchronous functionality**. The server may return a “417 Expectation Failed” if it is not willing to wait for an operation to complete.
- “Expect: 202-accepted” **explicitly request an asynchronous response**. The server may return a “417 Expectation Failed” if it is not willing to perform the request asynchronously.

If no expectation is provided, client must be prepared to accept a 202 Accepted status for any request other than GET.

See TM Forum REST Design Guidelines V3 for more information about asynchronous pattern and monitor resources.

<p>REQUEST</p>
<pre> POST /api/activation/service Accept: application/json Expect: 202-accepted { "state" : "Active",</pre>

```

    "serviceSpecification":{
      "id":"conferenceBridgeEquipment",
      "href":"http://serverlocation:port/catalogManagement/serviceSpecification/conferenceBridgeEquipment"
    },
    "serviceCharacteristic":[
      {
        "name":"numberOfVc500Units",
        "value":"1"
      },
      {
        "name":"numberOfVc100Units",
        "value":"2"
      },
      {
        "name":"routerType",
        "value":"CiscoASR1000"
      },
      {
        "name":"powerSupply",
        "value":"UK"
      }
    ]
  }
}

```

RESPONSE

202 Accepted

Content-Type: Application/JSON

Location: <http://server/api/activation/service/14>

```

{
// same as in request
}

```

Link:

<http://server/api/activation/monitor/1514>;rel=related;title=monitor,
<http://server/api/activation/service/14>;rel=self,
<http://server/api/activation/service/14>;rel=canonical

Example 3: the activation is realized immediately and a synchronous response is given to the caller.

REQUEST

```

POST /api/activation/service
Accept: application/json

```

```

{
  "state" : "Active",
  "serviceSpecification":{
    "id":"conferenceBridgeEquipment",
    "href":"http: //serverlocation:port/catalogManagement/serv
iceSpecification /conferenceBridgeEquipment"
  },
  "serviceCharacteristic":[
    {
      "name":"numberOfVc500Units",
      "value":"1"
    },
    {
      "name":"numberOfVc100Units",
      "value":"2"
    },
    {
      "name":"routerType",
      "value":"CiscoASR1000"
    },
    {
      "name":"powerSupply",
      "value":"UK"
    }
  ]
}

```

RESPONSE

200 OK
Content-Type: Application/JSON
Location: <http://server/api/activation/service/14>

```

{
  "id" : "14",
  "state" : "Active",
  "serviceSpecification":{
    "id":"conferenceBridgeEquipment",
    "href":"http: //serverlocation:port/catalogManagement/serv
iceSpecification /conferenceBridgeEquipment"
  },
  "serviceCharacteristic":[
    {
      "name":"numberOfVc500Units",
      "value":"1"
    },
    {
      "name":"numberOfVc100Units",
      "value":"2"
    },
    {
      "name":"routerType",

```

```

        "value": "CiscoASR1000"
    },
    {
        "name": "powerSupply",
        "value": "UK"
    }
  ]}
}

```

Link: <<http://server/api/activation/service/14>>;rel=self,
<<http://server/api/activation/service/14>>;rel=canonical

Example see TM Forum REST Design Guidelines.

PATCH /API/SERVICE/{ID}

PATCH operations are used to update services.

The response of the operation can be sent back synchronously or not, in this case a “monitor” resource hyperlink is given in the Response.

The same API can be used for updating Resources (if the management scope of the controller is relative to Resources). i.e PATCH /API/RESOURCE/{ID}

See TM Forum REST Design Guidelines TMF 630-631 for more information about asynchronous pattern and monitor resources.

REQUEST

```

PATCH /api/activation/service/14
Accept: application/json

{
  "state": "Active"
}

```

RESPONSE

```

202 Accepted
Content-Type: Application/JSON

{
  "id" : "14",
  "state" : "Active",
  "serviceSpecification":{

```

```

        "id": "conferenceBridgeEquipment",
        "href": "http://serverlocation:port/catalogManagement/serviceSpecification/conferenceBridgeEquipment"
    },
    "serviceCharacteristic": [
        {
            "name": "numberOfVc500Units",
            "value": "1"
        },
        {
            "name": "numberOfVc100Units",
            "value": "2"
        },
        {
            "name": "routerType",
            "value": "CiscoASR1000"
        },
        {
            "name": "powerSupply",
            "value": "UK"
        }
    ]
}

```

DELETE /API/ACTIVATION/SERVICE/{ID}

DELETE operations are used to delete services.

The response of the operation can be sent back synchronously or not, in this case a “monitor” resource hyperlink is given in the Response.

The same API can be used for deleting Resources (if the management scope of the controller is relative to Resources) i.e DELETE /API/RESOURCE/{ID}

The response of the operation can be sent back synchronously or not, in this case a “monitor” resource hyperlink is given in the Response.

See TM Forum REST Design Guidelines TMF 630-631 for more information about asynchronous pattern and monitor resources.

Example 1 : Monitor response for the DELETE directive, the deletion will be performed

REQUEST

```

DELETE /api/activation/service/47
Accept: application/json

```

RESPONSE

```
202 Accepted
Content-Type: Application/JSON

Link:
<http://server/api/activation/monitor/1545>;rel=related;title=monitor,
<http://server/api/activation/service/47>;rel=self,
<http://server/api/activation/service/47>;rel=canonical
```

Example 2 : Error performing the DELETE operation**REQUEST**

```
DELETE /api/activation/service/47
Accept: application/json
```

RESPONSE

```
204 No Content
```

HEAD /API/ACTIVATION/SERVICE/{ID}

This Uniform Contract operation is used to retrieve the header information that would be retrieved by the GET operation without retrieving the actual data.

The Header information provides information about the possible action and next state transitions.

The same API can be used for getting Resources (if the management scope of the controller is relative to Resources). i.e HEAD/API/RESOURCE/{ID}

Behavior :

- Returns HTTP/1.1 status code 200 if the request was successful.

REQUEST

```
HEAD /api/activation/service/14
Accept: application/json
```

RESPONSE

```
LINK: <http://server/api/activation/service/14>;rel=self,
<http://server/api/activation/service/14>;rel=canonical
```

POST|PUT|PATCH|DELETE /API/.../MONITOR

PUT|POST|PATCH|DELETE operations are not supported against /API/.../MONITOR.

REQUEST

```
PUT|POST|PATCH|DELETE /api/.../monitor
Accept: application/json
```

RESPONSE

```
405 Method Not Allowed
```

GET /API/MONITOR/{ID}

This Uniform Contract operation is used to get a Monitor. Monitors can be accessed via the Monitor collection or a singleton under their source for example `api/activation/service/47/monitor`.

Behavior :

- What status and exception codes are returned.
- Returns HTTP/1.1 status code 200 if the request was successful.
- Any other special return and/or exception codes.

REQUEST

```
GET /api/activation/monitor/14
Content-type: application/json
```

RESPONSE

```
200
Content-Type: application/json
```

```

    "id": "",
    "state": "MonitorState",
    "type": "monitor"
    "request": {
      "method": "",
      "to": "",
      "body": "",
      "header": [
        {
          "name": "",
          "value": ""
        }
      ]
    },
    "response": {
      "statusCode": "",
      "body": "",
      "header": [
        {
          "name": "",
          "value": ""
        }
      ]
    },
    "href": "",
    "sourceHref": "http://.."
  }

```

Example see TM Forum REST Design Guidelines.

HEAD /API/ACTIVATION/MONITOR/{ID}

This Uniform Contract operation is used to retrieve the header information that would be retrieved by the GET operation without retrieving the actual data. Useful to know if an operation is still in progress on a resource for example.

Behavior :

- Returns HTTP/1.1 status code 200 if the request was successful.

REQUEST

```

HEAD /api/activation/monitor/14
Accept: application/json

```

RESPONSE
E-tag: "adlkjaljadfljal"

E-tag: "adlkjaljadfljal"

API NOTIFICATION TEMPLATES

For every single of operation on the entities use the following templates and provide sample REST notification POST calls.

It is assumed that the Pub/Sub uses the Register and UnRegister mechanisms described in the REST Guidelines reproduced below.

REGISTER LISTENER POST /HUB

Description :

Sets the communication endpoint address the service instance must use to deliver information about its health state, execution state, failures and metrics. Subsequent POST calls will be rejected by the service if it does not support multiple listeners. In this case DELETE /api/hub/{id} must be called before an endpoint can be created again.

Behavior :

Returns HTTP/1.1 status code 204 if the request was successful.

Returns HTTP/1.1 status code 409 if request is not successful.

REQUEST
<pre>POST /api/hub Accept: application/json { "callback": "http://in.listener.com" }</pre>
RESPONSE
<pre>201 Content-Type: application/json Location: /api/hub/42 { "id": "42", "callback": "http://in.listener.com", "query": null }</pre>

UNREGISTER LISTENER DELETE HUB/{ID}

Description :

Clears the communication endpoint address that was set by creating the Hub.

Behavior :

Returns HTTP/1.1 status code 204 if the request was successful.

Returns HTTP/1.1 status code 404 if the resource is not found.

REQUEST
<pre>DELETE /api/hub/{id} Accept: application/json</pre>
RESPONSE
204

PUBLISH {EVENTTYPE} POST /LISTENER

Description :

Provide the Event description

Behavior :

Returns HTTP/1.1 status code 201 if the service is able to set the configuration.

REQUEST
<pre>POST /client/listener Accept: application/json { "event": { EVENT BODY }, "eventType": "eventType" }</pre>

RESPONSE
201 Content-Type: application/json

Example see TM Forum REST Design Guidelines.

OPEN ITEMS

Item Number	Description	Resoultion
1		
2		
3		
4		
5		

ADMINISTRATIVE APPENDIX

VERSION HISTORY

Version Number	Date	Modified by	Description
Version 1.0.0	12 Nov 2015	Pierre Gauthier TM Forum	Submitted for Fx15.5
Version 1.0.1	12 Nov 2015	Alicja Kawecki TM Forum	Updated cover, header; minor formatting/style corrections prior to publishing
Version 1.0.2	2 May 2016	Alicja Kawecki, TM Forum	Updated cover, footer, Notice to reflect TM Forum Approved status

RELEASE HISTORY

Release Number	Date	Release led by:	Description
2.0	12 Nov 2015	Pierre Gauthier pgauthier@tmforum.org Andrew Forth aforth@amdocs.com August-Wilhelm Jagau August-wilhelm.jagau@ericsson.com	Final release of specification with additional comments on Resource usage

ACKNOWLEDGMENTS

This document was prepared by members of the TM Forum API Program team.