



# CTX-TM-Forums NaaS Component Suite User Guide

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## Preface

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### About this Manual

This document is a user guide for the CTX-TM-Forum NaaS Component Suite module

### Audience

The audience for this document is those wanting to understand how to use CTX-TM-Forum NaaS Component Suite module.

### Related Material

Document
CTX-TM-Forum NaaS Component Suite - Deployment Plan
CTX- TM-Forum.studiopkg
TMF640 Service Activation and Configuration API REST Specification R18.5.1
TMF633 Service Catalog API REST Specification R18.5.1
TMF638 Service Inventory API REST Specification R18.5.1
TMF641 Service Ordering API REST Specification R18.5.1
TMF656 Service Problem API REST Specification R18.5.1
TMF645 Service Qualification API REST Specification R18.5.1
TMF653 Service Test API REST Specification R18.5.1
TMF677 Usage Consumption API REST Specification R18.5.1

### Abbreviations used in this Document

<b>API</b>	Application Programming Interface
<b>NaaS</b>	Network as a Service
<b>REST</b>	REpresentational State Transfer

## Versions

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### Document Revisions

The following revisions have been made to this document

Date	Revision	Notes
07/05/2019	1.0	First Release

### Module Versions

The following revisions have been made to the CTX-TM-Forum module

Date	Revision	Notes
07/05/2019	1.0	Service Activation Configuration
07/05/2019	1.0	Service Catalogue
07/05/2019	1.0	Service Inventory
07/05/2019	1.0	Service Ordering
07/05/2019	1.0	Service Problem
07/05/2019	1.0	Service Test
07/05/2019	1.0	Service Qualification
07/05/2019	1.0	Usage Consumption

## Requirements

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This document details all the steps required to utilise the TM Forum NaaS Component Suite subtasks.

Requirements:

- Cortex v6.5 or later Installed on the Cortex application server.

## Integration

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### Integration with Third-Party Systems

This subtasks in this module provide integration functionality to systems supporting the TMForum Network as a Service Component Suite.

### Integration with Existing Infrastructure

None Required

# 1 TM Forum NaaS Component Suite Modules

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## 1.1 Service Activation and Configuration

### 1.1.1 Overview

The following subtasks are contained within this module:

- LM-List-Monitor
- LTMAVCN-Listen-To-Monitor-Attribute-Change-Notification
- LTMCN-Listen-To-Monitor-Create-Notification
- LTMDN-Listen-To-Monitor-Delete-Notification
- LTMSCN-Listen-To-Monitor-State-Change-Notification
- RM-Retrieve-Monitor

Follow [this link](#) to view the TM Forum specification for Service Activation and Configuration. This contains examples of use cases, resource models and API operations.

## 1.2 Service Catalogue Management

### 1.2.1 Overview

The following subtasks are contained within this module:

- CEJ-Create-Export-Job
- CIJ-Create-Import-Job
- CSC-Create-Service-Candidate
- CSC-Create-Service-Catalog
- CSC-Create-Service-Category
- CSS-Create-Service-Specification
- DEJ-Delete-Export-Job
- DIJ-Delete-Import-Job
- DSC-Delete-Service-Candidate
- DSC-Delete-Service-Catalog
- DSC-Delete-Service-Category
- DSS-Delete-Service-Specification
- LEJ-List-Export-Job
- LIJ-List-Import-Job
- LSC-List-Service-Candidate
- LSC-List-Service-Catalog

- LSC-List-Service-Category
- LSS-List-Service-Specification
- LTSCBN-Listen-To-Service-Catalog-Batch-Notification
- LTSCCN-Listen-To-Service-Candidate-Change-Notification
- LTSCCN-Listen-To-Service-Candidate-Create-Notification
- LTSCCN-Listen-To-Service-Catalog-Change-Notification
- LTSCCN-Listen-To-Service-Catalog-Create-Notification
- LTSCCN-Listen-To-Service-Category-Change-Notification
- LTSCCN-Listen-To-Service-Category-Create-Notification
- LTSCDN-Listen-To-Service-Candidate-Delete-Notification
- LTSCDN-Listen-To-Service-Catalog-Delete-Notification
- LTSCDN-Listen-To-Service-Category-Delete-Notification
- LTSSCN-Listen-To-Service-Specification-Change-Notification
- LTSSCN-Listen-To-Service-Specification-Create-Notification
- LTSSDN-Listen-To-Service-Specification-Delete-Notification
- PSC-Patch-Service-Candidate
- PSC-Patch-Service-Catalogue
- PSC-Patch-Service-Category
- PSS-Patch-Service-Specification
- REJ-Retrieve-Export-Job
- RIJ-Retrieve-Import-Job
- RSC-Retrieve-Service-Candidate
- RSC-Retrieve-Service-Catalog
- RSC-Retrieve-Service-Category
- RSS-Retrieve-Service-Specification

Follow [this link](#) to view the TM Forum specification for Service Catalogue Management. This contains examples of use cases, resource models and API operations.

## 1.3 Service Inventory Management

### 1.3.1 Overview

The following subtasks are contained within this module:

- CS-Create-Service
- DS-Delete-Service



- LS-List-Service
- LTSAVCN-Listen-To-Service-Attribute-Value-Change-Notification
- LTSBN-Listen-To-Service-Batch-Notification
- LTSCN-Listen-To-Service-Create-Notification
- LTSDN-Listen-To-Service-Delete-Notification
- LTSSCN-Listen-To-Service-State-Change-Notification
- PS-Patch-Service
- RS-Retrieve-Service

Follow [this link](#) to view the TM Forum specification for Service Inventory Management. This contains examples of use cases, resource models and API operations.

## 1.4 Service Ordering

### 1.4.1 Overview

The following subtasks are contained within this module:

- CSO-Create-Service-Order
- DSO-Delete-Service-Order
- LSO-List-Service-Order
- LTSOAVCN-Listen-To-Service-Order-Attribute-Value-Change-Notification
- LTSOCN-Listen-To-Service-Order-Create-Notification
- LTSODN-Listen-To-Service-Order-Delete-Notification
- LTSOSCN-Listen-To-Service-Order-State-Change-Notification
- PSO-Patch-Service-Order
- RSO-Retrieve-Service-Order

Follow [this link](#) to view the TM Forum specification for Service Ordering. This contains examples of use cases, resource models and API operations.

## 1.5 Service Problem Management

### 1.5.1 Overview

The following subtasks are contained within this module:

- CPA-Create-Problem-Acknowledgment
- CPG-Create-Problem-Group
- CPU-Create-Problem-Unacknowledgement
- CPU-Create-Problem-Ungroup

- CSP-Create-Service-Problem
- DSP-Delete-Service-Problem
- LSP-List-Service-Problem
- LSPER-List-Service-Problem-Event-Record
- LTSPAVAN-Listen-To-Service-Problem-Attribute-Value-Change-Notification
- LTSPCN-Listen-To-Service-Problem-Create-Notification
- LTSPIRN-Listen-To-Service-Problem-Information-Required-Notification
- LTSPSCN-Listen-To-Service-Problem-State-Change-Notification
- PSP-Patch-Service-Problem
- RSPER-Retrieve-Service-Problem-Event-Record
- RSP-Retrieve-Service-Problem

Follow [this link](#) to view the TM Forum specification for Service Problem Management. This contains examples of use cases, resource models and API operations.

## 1.6 Service Qualification Management

### 1.6.1 Overview

The following subtasks are contained within this module:

- CSQ-Create-Service-Qualification
- DSQ-Delete-Service-Qualification
- LSQ-List-Service-Qualification
- LTSQCN-Listen-To-Service-Qualification-Change-Notification
- LTSQCN-Listen-To-Service-Qualification-Create-Notification
- LTSQDN-Listen-To-Service-Qualification-Delete-Notification
- PSQ-Patch-Service-Qualification
- RSQ-Retrieve-Service-Qualification

Follow [this link](#) to view the TM Forum specification for Service Qualification Management. This contains examples of use cases, resource models and API operations.

## 1.7 Service Test Management

### 1.7.1 Overview

The following subtasks are contained within this module:

- CST-Create-Service-Test
- CSTS-Create-Service-Test-Specification

- DST-Delete-Service-Test
- DSTS-Delete-Service-Test-Specification
- LST-List-Service-Test
- LSTS-List-Service-Test-Specification
- LTSTAVCN-Listen-To-Service-Test-Attribute-Value-Change-Notification
- LTSTCN-Listen-To-Service-Test-Create-Notification
- LTSTDN-Listen-To-Service-Test-Delete-Notification
- LTSTSAVCN-Listen-To-Service-Test-Specification-Attribute-Value-Change-Notification
- LTSTSCN-Listen-To-Service-Test-Specification-Create-Notification
- LTSTSDN-Listen-To-Service-Test-Specification-Delete-Notification
- PST-Patch-Service-Test
- PSTS-Patch-Service-Test-Specification
- RST-Retrieve-Service-Test
- RSTS-Retrieve-Service-Test-Specification

Follow [this link](#) to view the TM Forum specification for Service Test Management. This contains examples of use cases, resource models and API operations.

## 1.8 Usage Consumption

### 1.8.1 Overview

The following subtasks are contained within this module:

- CUCRR-Create-Usage-Consumption-Report-Request
- DUCR-Delete-Usage-Consumption-Report
- DUCRR-Delete-Usage-Consumption-Report-Request
- LTUCRRSCN-Listen-To-Usage-Consumption-Report-Request-State-Change-Notification
- LUCR-List-Usage-Consumption-Report
- LUCRR-List-Usage-Consumption-Report-Request
- RL-Register-Listener
- RUCR-Retrieve-Usage-Consumption-Report
- RUCRR-Retrieve-Usage-Consumption-Report-Request
- UL-Unregister-Listener

Follow [this link](#) to view the TM Forum specification for Usage Consumption. This contains examples of use cases, resource models and API operations.