



What is CDPA Part 2 - DO00722-W-2400

Training material R24

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1 Welcome



Welcome to the What is Catalog-driven Provisioning and Activation eLearning module.

1.1 Objectives



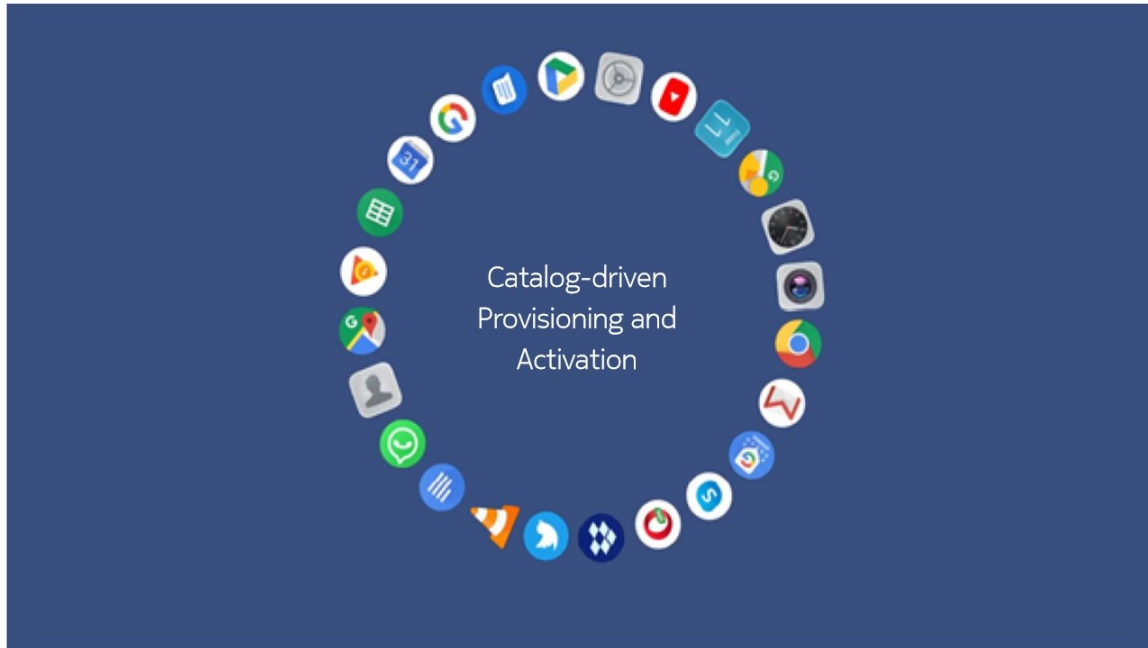
Objectives

This module will enable you to:

Explain the Catalog-driven Catalog-driven Provisioning and Activation use case

After this module, you will be able to explain an example Catalog-driven Provisioning and Activation or CDPA use case.

1.2 An example use case



Nokia Provisioning & Activation (P&A) is a software suite that allows Telecom Service Providers to efficiently orchestrate services from receiving the request from CRM or other northbound systems to activating the service for a given subscriber.

With a Catalog-driven approach, FlowOne Provisioning and Activation allows the rapid creation of new services and adjustments to existing services. You will now see how FlowOne Catalog-driven Provisioning and Activation delivers a service request.

An example use case



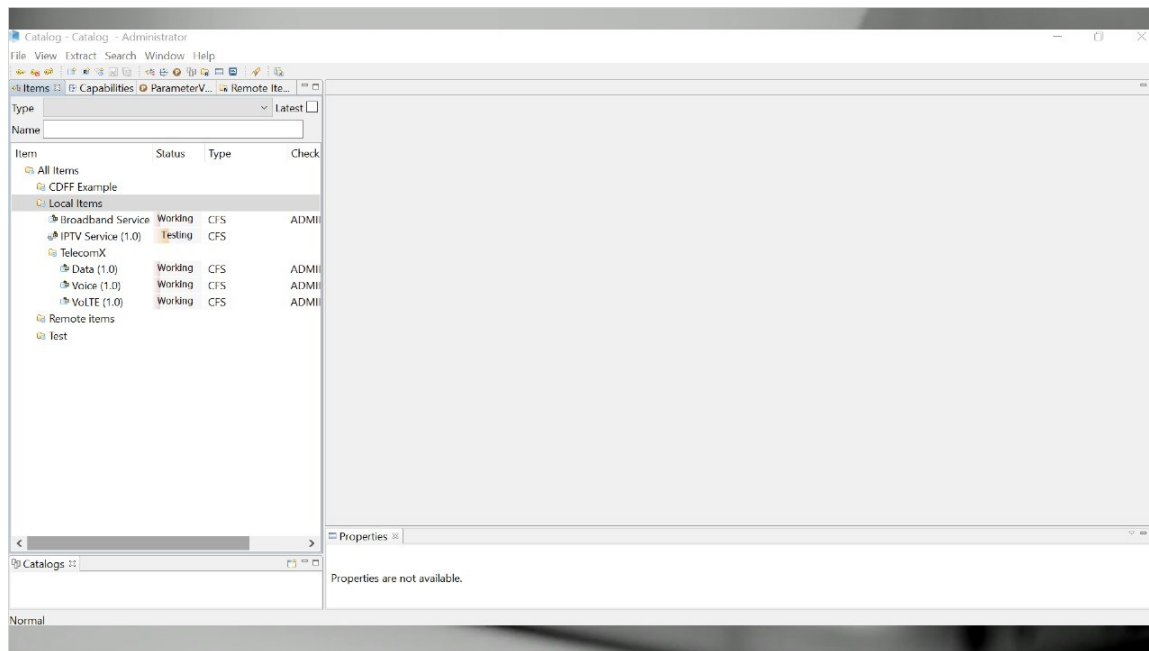
After
Telecom X
upgrade
the demand

Rollback

Carl is a new subscriber who starts with a Silver Mobile subscription. His subscription has Voice and data services. After a few months of using the Telecom X services, he decided to upgrade his subscription to Gold to meet his daily demands for his online business. As a part of the Telecom X promotion, he will also receive a free upgrade to avail of the VoLTE services.

The scenarios will be as follows:

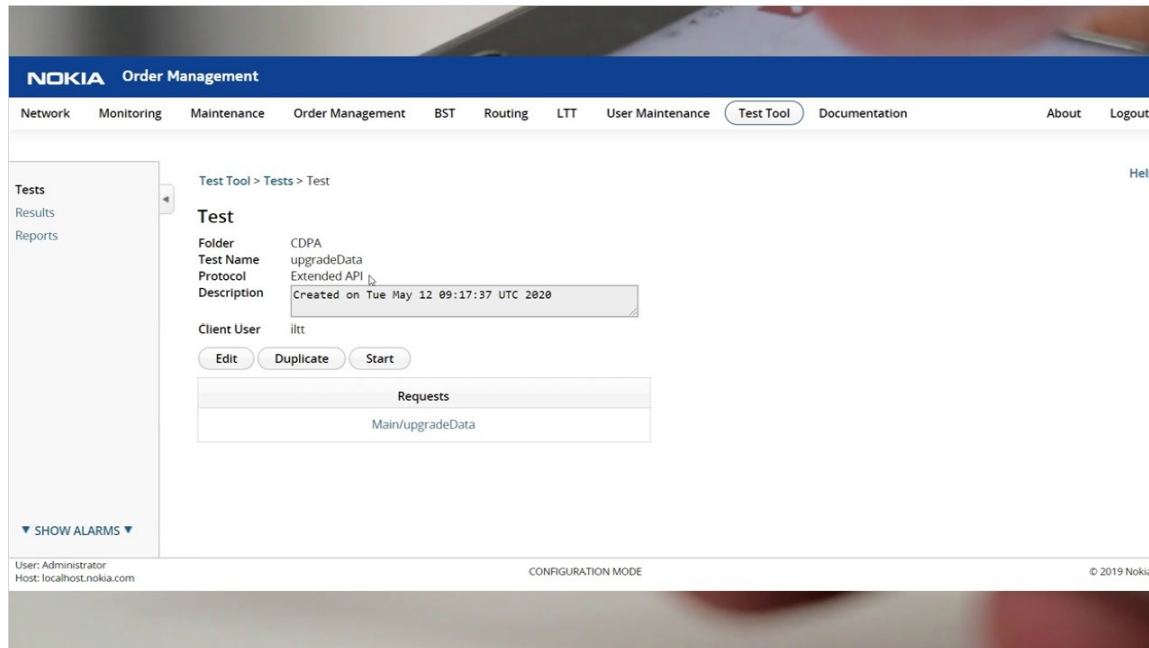
1. Carl is currently enjoying Telecom X's Voice subscription with 3G data.
2. Upgrade Carl's data bundle.
3. Carl will get a subscription for high-speed wireless communication services.
4. If a network failure occurs while orchestrating the services for Carl's subscription, a rollback will be performed for the entire subscription for that request.



For Provisioning and Activation to deliver an order, it is a pre-requisite to have the related customer facing services (CFS) and corresponding technical services modeled in FlowOne Catalog. Therefore, we need to model the structure of the services in Catalog Designer as part of the design flow. We have the following three customer facing services as part of Telecom X offering. These are Voice, Data, and VoLTE services.

Technical Services (TS) are the lowest items in the hierarchy and are resource-facing. They are the specification of a network-level capability, with attributes that define a network-driven service. In short, they are the functions of actions that configure the services in the network. And the customer facing services are items that represent a service from a customer perspective. Transactions indicate the actions that can be taken on an item, and directly relate to Provisioning and Activation parameter REQ_TYPE. For example, a voice subscription can be provided (create) to a customer or can be withdrawn (delete) from a customer. And we can bundle multiple customer facing services under one Product that can be sold to the customer.

1.3 P&A




This is the section for the order delivery flow using Provisioning and Activation. Typically, an OSS/BSS or other sales-facing system sends the service order or request via a FlowOne API.

There are two ways to send requests for this scenario - via Test Tool from Provisioning and Activation or import the SoapUI project. Both methods are analogical and demonstrate the same functionality. The only difference is that with SoapUI, you will use the SOA Web Services while with the Test Tool, you will use the Extended API protocol. SOA Web Services offers an interface for XML based SOAP messages over HTTP. And the Extended API is an interface between the CRM or other customer-facing systems and P&A that is used for sending service requests/orders to the network. There are available tests that you could use, examples are, activateVoiceData, upgradeData, activateVoLTE.

Once the request is sent, on the Monitoring page, you can search for those particular requests. Click on the Request ID to see the request and its corresponding decomposed tasks. When Nokia P&A receives a request, it picks up the product specified in the request, and the corresponding transaction specified by order type from FlowOne Catalog. It decomposes the Product into CFS and RFS and its related Technical Services. Technical Services contain information about the network elements, where the activation of the services needs to be accomplished. All the request parameters that are required for provisioning and activation of services are yielded as a result of Catalog decomposition. After the Catalog call, the returned decomposition is converted into tasks and is sent one by one to the corresponding network element.

1.4 Key takeaways



Key takeaways

- CDPA consists of Provisioning and Activation and Catalog components of FlowOne
- CDPA is a solution for subscriber provisioning and services activation where the service definition is stored in a Technical Catalog

FlowOne CDPA consists of Provisioning and Activation and Catalog components of FlowOne.

Catalog-driven Provisioning and Activation (CDPA) is a solution for subscriber provisioning and services activation where the service definition is stored in a technical catalog.

1.5 Thank you



This concludes the What is Catalog-driven Provisioning and Activation eLearning module.