TM Forum Open APIs

Conformance Certification

Company Name: Altice Labs

TM Forum Open API Name: TMF639 – Resource Inventory

TM Forum Open API Release Version: 4.0.0

Report Date: 26/02/2024
1. **What Product or Solution does your API support?**

NOSSIS® - Network Operations Support Systems Integrated Solutions is the OSS (Operations Support Systems) offer from Altice Labs. It consists of a suite of OSS modules in the areas of Fulfillment, Inventory and Assurance, aligned with the ODA architecture, that can work in an integrated way or also be used in stand-alone scenarios. It makes use of standards and APIs recommended by TM Forum in its internal modules and in communications with the ecosystem where it operates.

**Figure** Error! No text of specified style in document. 1 - NOSSIS One coverage modules

**NOSSIS Inventory** (aka Netwin) is the **NOSSIS** module for the Network development and Inventory area, positioning itself in the ‘Production’ Functional block from ODA covering among others: Resource Catalog Management, Resource Inventory, Service Qualification Management and Service Inventory. As all the other NOSSIS modules, NOSSIS Inventory is supported in a cloud-ready platform, flexible and highly scalable. Its high configuration capacity, over multiple network domains and platforms, makes it fit for growth and evolution with low operational cost.
NOSSIS Inventory key features include:

- Intelligent network planning and design tools, supported on GIS maps
- Multi-layer inventory navigation from physical to logical resources
- Provides feasibility information in a particular geography or address, and reserves and allocates resources for service provisioning.
- Centralized and unified service & resource catalogs
- Flexible onboard of multi-technology networks (fixed and mobile, traditional, and virtualized, ...) supporting up-to-date technologies like FTTH, 5G, network virtualization, and cloud services.
- End-to-end view with service-to-resource mapping
- Several APIs exposed for integration

The use of Resource Inventory API provides a standard interface to NOSSIS Inventory, bringing agility for integration with external systems and third parties that require resource inventory management ability.
2. Overview of Certified API

The Altice Labs implementation of Resource Inventory API includes all the mandatory operations from the TMF639 specification.

The Resource Inventory API is available in the NOSSIS Inventory module, as an interface in scenarios where NOSSIS Inventory is deployed alone or integrated in a NOSSIS solution. It can be used for tracking and managing resources enabling any integration use case in inventory management area.
3. Architectural View

The following diagram shows a functional architecture view of NOSSIS Inventory module.

**NOSSIS Inventory - Functional View**

- **Microservices-based architecture**
- **Horizontal & Vertical scalability**
- **On Premises/Cloud deployments** (Private, Public or Hybrid clouds)
- **Open APIs aligned with TMForum**
- **Restful APIs with SSL support**
- **Load Balancing & Failover support**
4. Test Results

Click here to view the results: ALTICE-TMF639-HTMLResults.html