

TM Forum Open APIs Conformance Certification



Company Name:

Tata Communications Transformation Services UK Ltd

Product Name and Release Version:

Neo AutomataTM – Cognitive NOCv3.2.0

TM Forum Open API Name and Release Version:

TMF634 – Resource Catalog Management v5.0.0

Date: 28/10/2026

1. What Product or Solution does your API support?

Neo Automata™ is a comprehensive automation platform that enables cognitive, intent-driven network operations and seamless integration across connectivity domains.

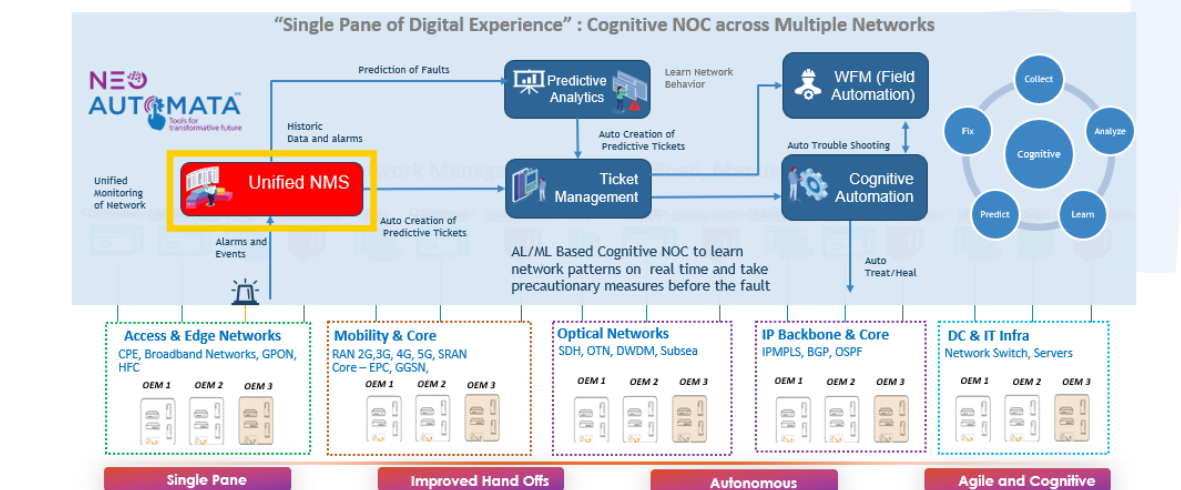
Cognitive NOC is a suite within Neo Automata™ that delivers predictive and autonomous network operations capabilities, supporting the progression towards zero-touch operations and fully autonomous networks.

Unified NMS (UNMS) is the umbrella network management suite within Cognitive NOC, providing fault, inventory, performance, security, and network reconciliation capabilities. In this solution context, TMF634 provides the resource catalog interface for organising reusable resource definitions and making them available to authorised operational and integration consumers. Catalog definitions describe resource types and characteristics; discovered or deployed resource instances remain within resource inventory management.

COGNITIVE NOC PLATFORM

[CORRELATION OF FAULT DATA & AUTOMATED DETECTION]

It is a transformative, AI/ML-driven solution offering a Single Pane of Glass for unified network monitoring and operations. It enables real-time visibility, proactive management, and data-driven decisions. The result is enhanced reliability, optimized utilization, and scalable, future-proof IT operations.



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2. Overview of Certified API

Neo Automata™ uses the TMF634 – Resource Catalog Management API v5.0.0 as a standard REST interface for managing resource catalog elements and exposing reusable resource definitions to consuming applications, including resource ordering processes.

Within Neo Automata's Cognitive NOC suite, TMF634 supports the Unified NMS (UNMS) resource catalog capability by providing a consistent contract for sharing resource definitions across operational and integration consumers. Network intents and live network state remain outside this catalog interface.

The resource catalog model used by Neo Automata comprises ResourceCatalog, ResourceCategory, ResourceCandidate, and ResourceSpecification. Catalogs organise categories; categories classify resource candidates; candidates reference specifications defining reusable resource characteristics and relationships. This structure separates catalog organisation from the technical resource definitions consumed by Neo Automata workflows and integrated systems.

The TMF634 specification defines creation, listing, retrieval, update, and deletion of core catalog entities, together with lifecycle information and event notifications.

In Neo Automata, resource specifications describe reusable characteristics and relationships, while catalog metadata supports version and validity management.

Neo Automata's multi-tenant architecture provides tenant isolation, configurable policies, secure role-based access, and scalable adoption across large network environments.

TMF634 standardises Neo Automata's resource catalog integration contract. Tenant isolation, role-based access, auditability, policy controls, and AI-assisted workflows are complementary Neo Automata platform capabilities.

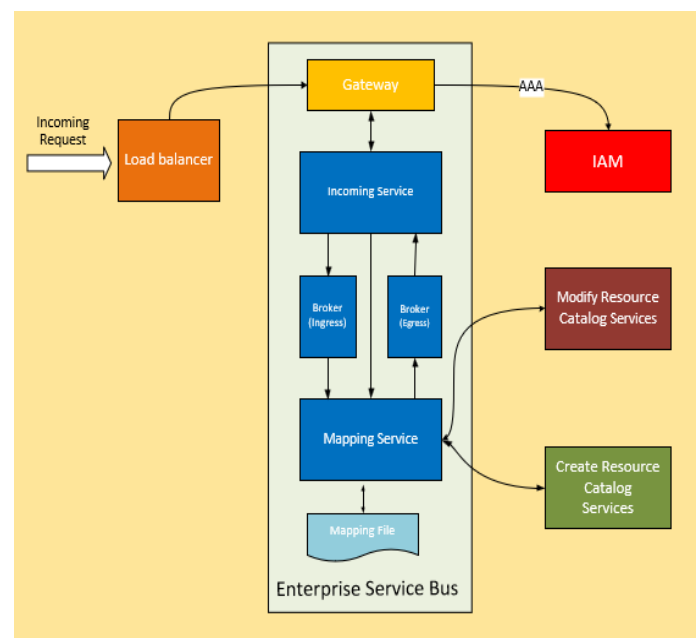
3. Architectural View

The TMF634 Resource Catalog Management API provides a loosely coupled interface between the UNMS resource catalog capability and authorised consuming applications. Its architectural responsibility is to expose catalog structures and reusable resource specifications.

In the catalog interaction flow, an authorised producer maintains resource specifications and their associated candidates, categories, and catalogs through the implemented TMF634 operations.

Neo Automata consuming applications and integrated systems query the catalog to retrieve consistent, reusable resource definitions for downstream design, resource ordering, and inventory-related workflows, while keeping catalog definitions distinct from deployed resource instances. Where implemented, catalog change notifications inform subscribed consumers of relevant updates.

- Standalone Microservices are created as part of Enterprise Service Bus.
- Incoming requests are mapped with API mappings.
- Outgoing responses are then mapped back for outgoing field mappings.
- Through the mappings, underlying interfaces are enabled supporting Open API standards.
- Example: Regardless of any legacy interface, services will start supporting standard Services using Open APIs.



4. Test Results

Click here to view the test results: [TCTS-NeoAutomata-TMF634-v5-HTMLResults.html](#)