

# TM Forum Open APIs Conformance Certification

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## **Company Name:**

*Tata Communications Transformation Services UK Ltd*

## **Product Name and Release Version:**

*Neo Automata<sup>TM</sup> – Cognitive NOC v3.1.1*

## **TM Forum Open API Name and Release Version:**

*TMF672 – User Role Permission Management v4.0.0*

**Date: 26/06/2026**

# 1. What Product or Solution does your API support?

Neo Automata™ is a Comprehensive Automation Platform for enabling Networks with Cognitive Intelligence and Seamless Integration across all the connectivity domains.

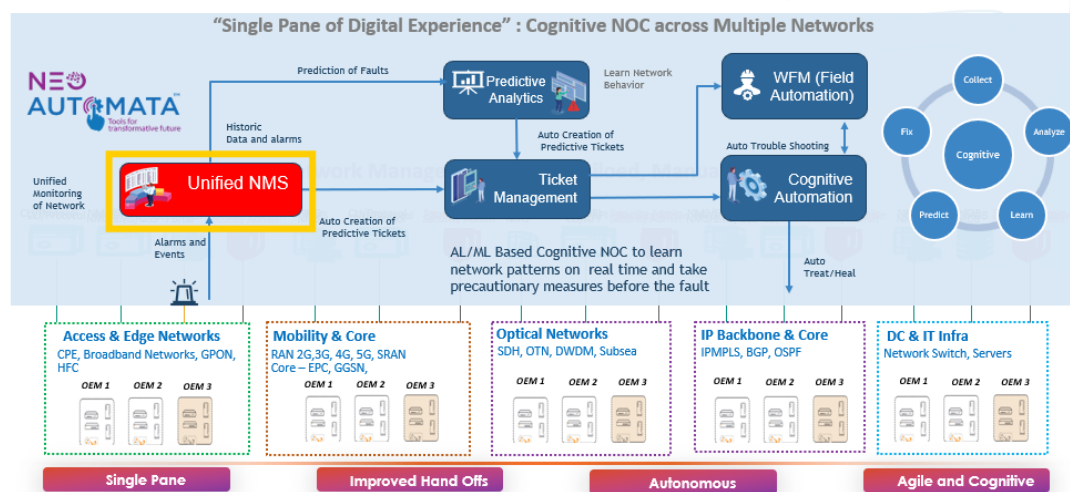
Cognitive NOC is a collection of tool suits within Neo Automata umbrella suite focussed to gain deeper and predictive insights across network operations towards Zero Touch, towards Fully Autonomous Networks.

Unified NMS is an Umbrella Network Management suite under Cognitive NOC which provide Fault, Inventory, Performance, Security management services.

## 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

The Unified NMS TMF672 – User Role Permission Management API aligns with TM Forum’s Open Digital Architecture principles by providing a standardized interface to manage user roles, permissions, and access rights across operational systems and manageable assets.

The API supports role-based access control by enabling administrators or asset owners to grant, view, update, and revoke permissions for users based on defined roles and scoped assets such as services, resources, products, applications, or operational domains.

Its loosely coupled interface acts as a single access governance layer for assigning user roles, associating permissions with manageable assets enabling consistent authorization across multi-tenant environments.

The API supports complete permission lifecycle operations including permission creation, permission retrieval, permission updates, permission revocation, and traceability of access assignments for audit and compliance purposes.

Our multi-tenant architecture ensures tenant isolation, secure role mapping, configurable permission policies, validity-based access control, and scalable adoption across large enterprise and service provider environments.

Notification and integration interfaces can be used to inform dependent systems about permission changes, access revocations, role updates, and governance events in near real time.

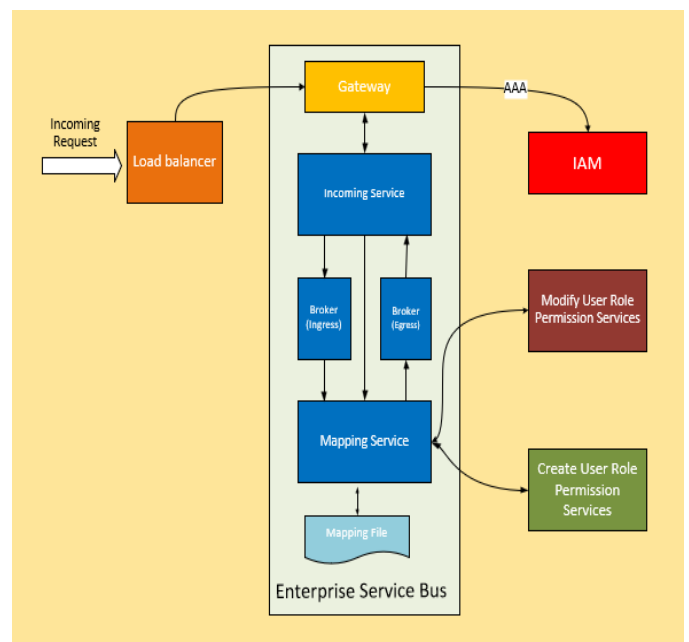
Built on principles of loose coupling, security, compliance, and interoperability, the API enables NMS platforms, workflow systems, portals, and operational hubs to consistently govern user access to network and service management functions at scale.

### 3. Architectural View

The Unified NMS TMF672 – User Role Permission Management API architecture follows a loosely coupled, service-oriented design, providing a standardized access governance layer aligned with TM Forum Open Digital Architecture principles.

It enables scalable multi-tenant authorization through modular components for user identity references, role definitions, permission assignments, manageable asset scoping, validity management, audit logging, and event-driven synchronization with enterprise systems.

- 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 alarm interface of customer, services will start supporting standard Services using Open APIs.



### 4. Test Results

Click here to view the test results: [TCTS-NeoAutomata-TMF672-v4-HTMLResults.html](https://www.tmforum.com/neoautomata-tmf672-v4/htmlresults.html)