

TM Forum Open APIs Conformance Certification



Company Name:

Tata Communications Transformation Services UK Ltd

Product Name and Release Version:

Neo AutomataTM – *Cognitive NOC* v3.1.1

TM Forum Open API Name and Release Version:

TMF673 - Geographic Address Management v4.0.1

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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.

Within the Neo Automata™ platform, the TMF673 Geographic Address Management capability provides standardized address search, retrieval, sub-address lookup, and address validation services for OSS/BSS and partner ecosystems. It enables consuming systems to discover valid service locations, normalize customer-entered addresses, and exchange address information through TM Forum-compliant interfaces.

This capability supports service qualification, order capture, fulfilment, inventory alignment, and location-dependent assurance workflows by ensuring that geographic addresses are accurate, structured, and interoperable across internal and B2B integrations.

IT SERVICE MANAGEMENT - NEO AUTOMATA™ COGNITIVE NOC TROUBLE TO RESOLVE (T2R)



2. Overview of Certified API

The TMF673 Geographic Address Management API provides a standardized client interface to an address management system, enabling applications to search, retrieve, and validate geographic addresses using TM Forum-aligned resource models and interaction patterns.

It supports address discovery and progressive search, allowing systems with geographic areas such as cities or towns and then identify individual segments or serviceable addresses.

Supported operations include retrieving an individual geographic address or a filtered collection of addresses, retrieving geographic sub-address details, creating a geographic address validation request, and retrieving, updating, or deleting an existing validation record as required by the implementation profile.

The implementation supports secure, standards-based integration across CRM, order management, service qualification, partner onboarding, and location management processes, helping ensure that downstream systems consume validated and normalized address information.

Event notification interfaces support asynchronous integration patterns for address-related lifecycle events and subscription management, enabling external systems to react to relevant changes in validation or managed address data where applicable.

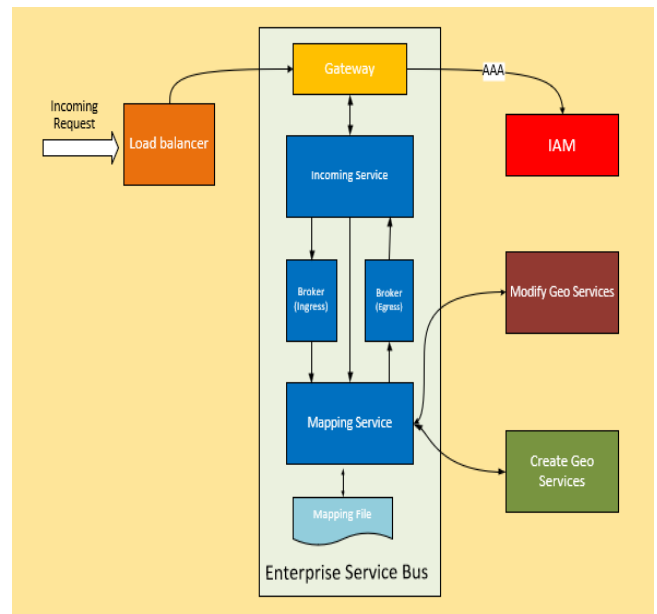
Built on principles of loose coupling, interoperability, and compliance with TM Forum Open APIs, TMF673 enables location-aware digital service processes to exchange address data reliably across enterprise and partner ecosystems.

3. Architectural View

The TMF673 Geographic Address Management API architecture follows a loosely coupled, service-oriented design that exposes standardized address-management capabilities to consuming systems through secure REST interfaces aligned with TM Forum Open API principles.

It supports modular integration with address repositories, geospatial reference sources, validation services, CRM, service qualification, and order orchestration layers, while enabling search, retrieval, sub-address handling, validation workflows, and event-driven notification patterns in multi-tenant environments.

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



4. Test Results

Click here to view the test results: [TCTS-NeoAutomata-TMF673-v4.0.1-HTMLResults.html](https://www.tmforum.com/neoautomata-tmf673-v4.0.1-HTMLResults.html)