

TM Forum Open APIs Conformance Certification



Company Name:

China Telecom Corporation Limited.

Product Name and Release Version:

China Telecom CNOS-BSS

TM Forum Open API Name and Release Version:
TMF655 – Change Management API V4.0.0

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1. What Product or Solution does your API support?

China Telecom CNOS (New-Generation Cloud Network Operation System) is an enterprise-level operation system that integrates and upgrades the existing OSS (for network operation), BSS (for business operation), and MSS. It is one of the main carriers for China Telecom's digital, automated, and intelligent operation management, and an important component of China Telecom digital platform.

The capabilities provided by various capability centers and applied in various application scenario in the CNOS are uniformly aggregated and encapsulated through the atomic capability platform to achieve capability sharing. CNOS and the data middleware enable the interconnection and sharing of production data, and empower production operation through the big data and AI capabilities of the data middleware. Meanwhile based on the unified technology platform of PaaS components, IaaS, and general capabilities of the business centers, cloud deployment and development operation are integrated.

The Change Management API (TMF655) is a key component of CNOS Common Center, which complies with ITIL change management best practices. It manages the whole lifecycle of change request resources, including change creation, query, partial update and deletion. It covers attributes such as change impact, risk assessment, implementation schedule, related parties, work log, resolution plan, and supports complete change status transition model. Five categories of event notifications are provided for change request creation, status change, deletion, attribute modification and approval required events. CNOS uses this API to realize standardized management of network and service change activities, coordinate change approval, implementation, review and roll-back, and realize interworking with peripheral trouble ticket, resource inventory systems.

2. Overview of Certified API

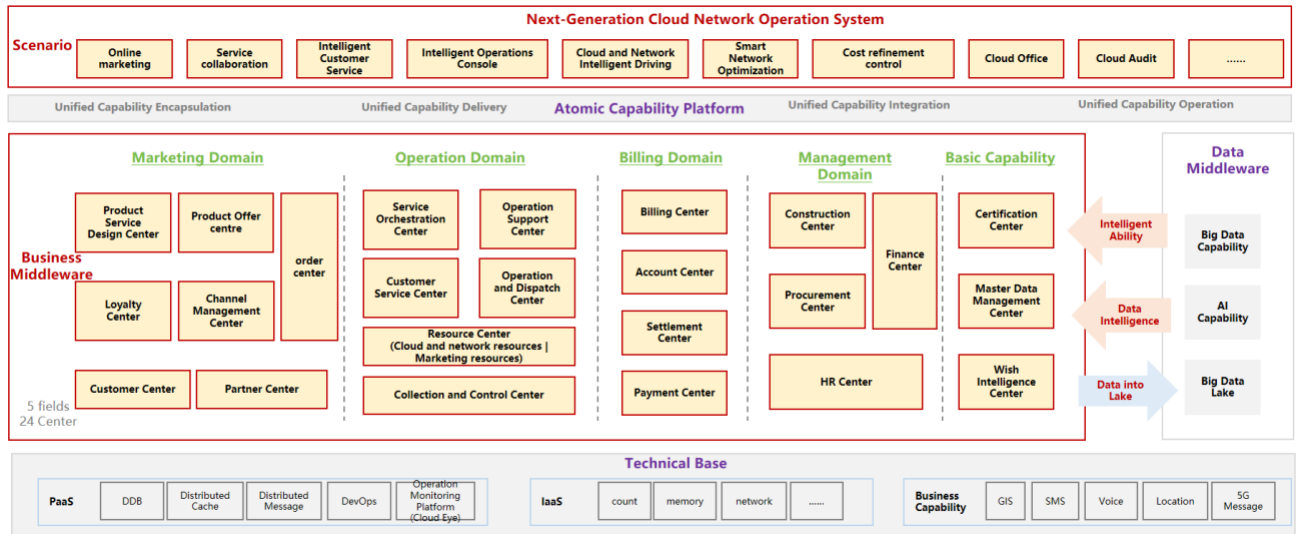
- TMF655 Change Management API

The Change Management API REST specification implements full - lifecycle management for ChangeRequest resources following ITIL

change management model. It supports create, retrieve, partial update and delete operations for change request. Rich attributes are defined including impact assessment, risk & mitigation plan, planned/actual start-end time, related parties, impacted entities, work log, resolution and task information. It implements complete finite state machine for change request lifecycle. Meta - attributes (`@type`, `@baseType`, `@schemaLocation`, `@referredType`) are adopted for polymorphism and schema extension. Five notification events are defined: ChangeRequestCreateEvent, ChangeRequestStatusChangeEvent, ChangeRequestDeleteEvent, ChangeRequestAttributeValueChangeEvent, ChangeRequestApprovalRequiredEvent. This API applies to planned network maintenance, service upgrade, change approval and post-implementation review scenarios inside or between operator systems.

3. Architectural View

The following Diagram shows the technical architecture of China Telecom CNOS(Next-Generation Cloud Network Operations System) :



4. Test Results

Click here to view the test results: [CHINATELECOM-TMF655-v4.0.0-HTMLReport.html](#)