

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:

TMF676 – Payment Management 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 "Payment Management API" (TMF676) serves as one of the core components of CNOS's Payment Centre, facilitating payment, payment inquiry, refund, and refund inquiry. The Payment Centre utilizes this API to manage payment processes in a unified manner and provide services to external systems, thereby ensuring a single source of truth for payment data.

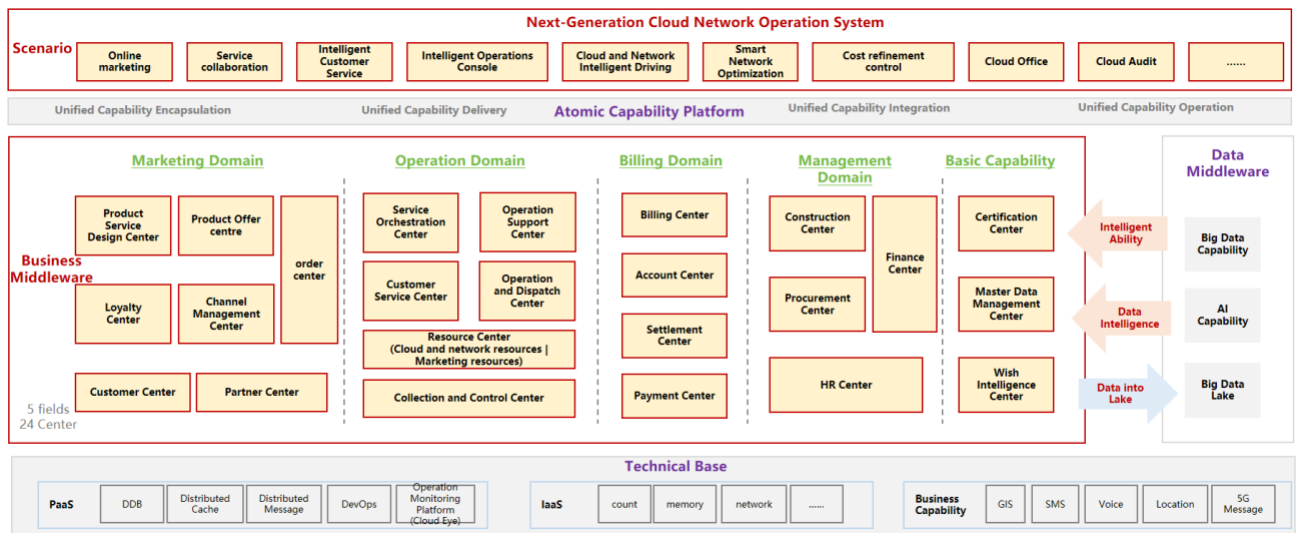
2. Overview of Certified API

- TMF676 Payment Management API

The Payments API provides the standardized client interface to Payment Systems for notifying about performed payments or refunds. Examples of Payment API originators (clients) include Web servers, mobile app servers, Contact center dashboards or retail store systems. The API eliminates the need for every system to integrate directly with multiple payment gateways. This provides a unified and secure layer for managing the payment lifecycle, ensuring that all systems adhere to consistent rules for security, validation, and status updates throughout the transaction process.

3. Architectural View

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



In this multi-tier cloud-native architecture, the TMF676 Payment Management API is positioned within the Billing Domain.

Through the Atomic Capability Platform (Unified Capability Encapsulation and Delivery), the Payment management are uniformly encapsulated and exposed as standard TMF676 Open APIs.

It provides a synchronized, single source of truth for various frontend channels and application scenarios, enabling flexible payment, payment inquiry, refund, and refund inquiry.

4. Test Results

Click here to view the test results: [CHINATELECOM-TMF676-v4.0.0-HTMLReport.html](https://chinatelecom.com/CHINATELECOM-TMF676-v4.0.0-HTMLReport.html)