

TM Forum Open APIs

Conformance Certification



Company Name:

AsiaInfo Innovation Technologies
(Nanjing) Co., Ltd.

Product Name and Release Version:

BSS v9

TM Forum Open API Name and Release Version:

TMF635 – Usage Management v5.0.0

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1. What Product or Solution does your API support?

The AsiaInfo BSS-V9 is a standardized billing integration solution . It addresses the challenge of fragmented billing interfaces by providing a unified API that handles both customer management and usage management.

TMF635 (Usage Management API) – Handles product usage records (e.g., data, voice, SMS consumption) for rating, real-time billing, and partner exchange.

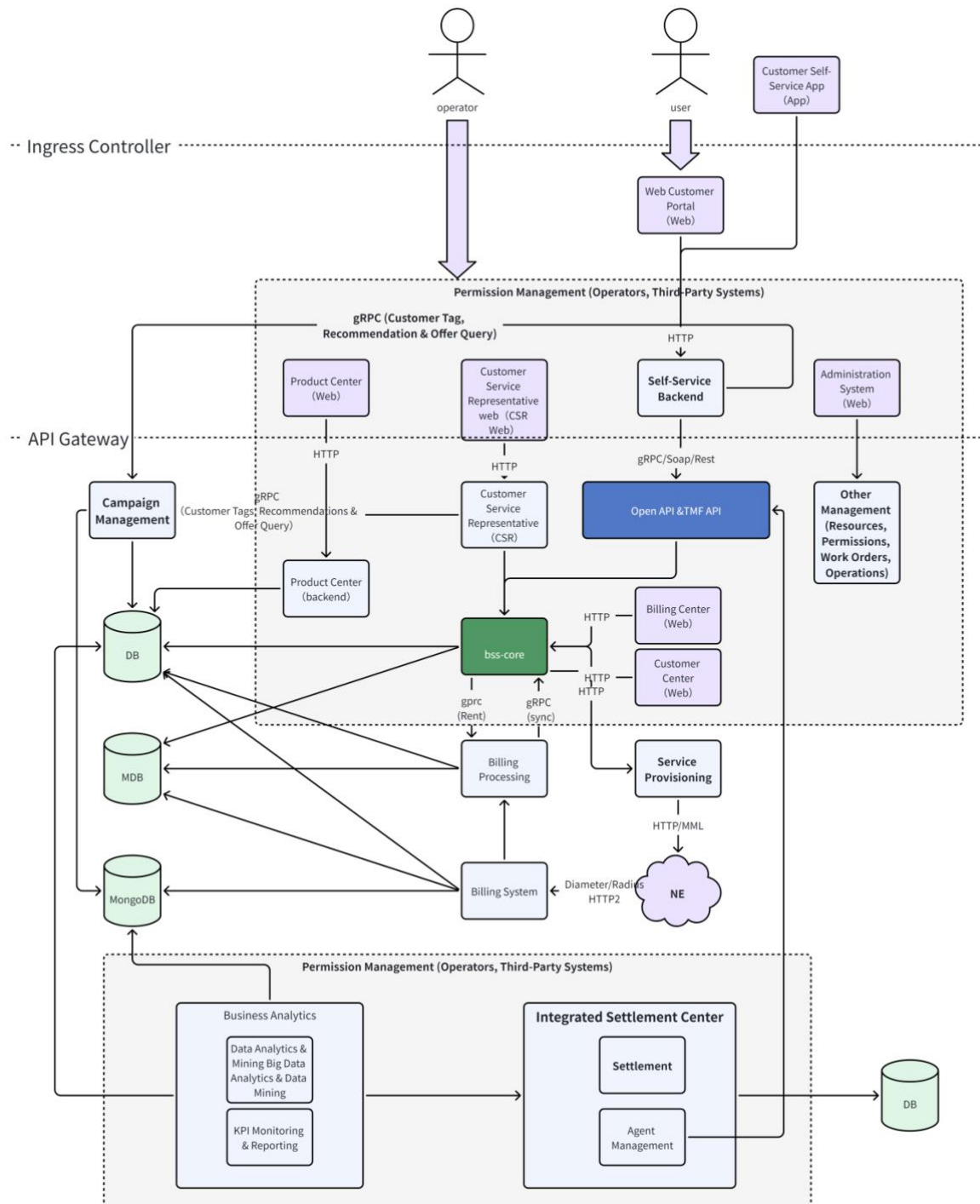
2. Overview of Certified API

TMF635 Usage Management API:

The TMF635 Usage Management API provides standardized access to product usage records (e.g., CDRs, event consumption) for rating, billing, and partner exchange.

Core operations: GET, POST, PATCH, DELETE /Usage.

3. Architectural View



The certified TMF Open APIs are deployed as the core standardized API gateway layer within private cloud BSS platform. This layer serves as the critical bridge between front-end customer-facing systems, back-end business systems, and operator/third-party systems.

The Open API & TMF API module acts as the centralized, standardized gateway of the BSS platform.

- Standardized interface exposure: Exposes telecom business capabilities in compliance with TM Forum Open API and REST specifications.
- Protocol unification: Consolidates access across HTTP, gRPC, SOAP, and other protocols.
- Permission and security control: Enforces access policies for operators, third-party systems, and customer channels.
- System decoupling and scalability: Separates front-end interaction systems from back-end core systems to support independent iteration and horizontal scaling.

All external requests (end users, operators, third parties) first pass through the Ingress Controller for traffic routing, then through the API Gateway for authentication, rate limiting, and protocol conversion before reaching the TMF API layer.

- User-facing flow: User → Customer Portal / Self-Service App → Ingress Controller → API Gateway → TMF APIs
- Operator-facing flow: Operator → Ingress Controller → API Gateway → Permission Management → TMF APIs
- Third-party flow: Third-party → Ingress Controller → API Gateway → Permission Management → TMF APIs

4. Test Results

Click here to view the test results: [AsiaInfo-TMF635-v5-HTMLResults.html](#)