

TM Forum Open APIs

Conformance Certification



Company Name:

Tayana Mobility Technologies Pvt Ltd

Product Name and Release Version:

BMP (Bulk Messaging Platform)

Release: 4.3

TM Forum Open API Name and Release Version:

TMF681- Communication Management v4.0.0

Date: 14/07/2026

1. What Product or Solution does your API support?

The Bulk Messaging Platform (BMP) is an enterprise-grade communication platform designed for Communication Service Providers (CSPs), enterprises, organizations, and digital service providers. The platform enables large-scale outbound and inbound messaging services across SMS, Flash SMS, Unicode SMS, OTP messages, promotional campaigns, transactional alerts, and other enterprise communication channels.

The certified implementation includes the TMF681 Communication Management API, providing a standardized TM Forum interface for creating, scheduling, managing, and tracking communication requests.

The Bulk Messaging Platform integrates with SMSC through SMPP protocol and direct delivery enabling high-throughput message delivery while supporting intelligent routing, delivery tracking, retry mechanisms, and campaign management.

The API is consumed by banking systems, government portals, healthcare platforms, e-commerce applications, enterprise messaging portals, campaign management systems, and third-party applications requiring secure, reliable, and scalable messaging services.

2. Overview of Certified API

The certified implementation provides a TM Forum-compliant implementation of the TMF681 Communication Management API for enterprise messaging services.

The API supports the complete communication lifecycle, including:

- Bulk SMS submission
- Transactional messaging
- OTP messaging
- Promotional messaging
- Campaign management
- Message scheduling
- Recipient list management
- Message template management
- Delivery status tracking
- Delivery Receipt (DLR) processing
- Communication history
- Retry and failure management
- Multi-SMSC routing
- Priority messaging

- Message throttling
- Blacklist and Do-Not-Disturb (DND) validation

The platform supports high-volume communication by distributing messages to SMSC or direct delivery based on configurable routing policies, throughput limits, network availability, and operator preferences.

The TMF681 Communication Management API acts as the northbound interface for enterprise applications, while the Bulk Messaging Platform communicates with SMSC through SMPP/HTTP protocols to deliver messages to subscribers.

3. Architectural View

The Bulk Messaging Platform follows a service-oriented, API-driven architecture based on TM Forum Open APIs.

External enterprise applications, including CRM systems, Banking applications, Government portals, Healthcare platforms, Marketing platforms, Customer Care applications, ERP systems, and Digital Channels, access messaging services through the TMF681 Communication Management API exposed via the API Gateway.

The Communication Management API validates communication requests and forwards them to the Bulk Messaging Engine, where messages are processed, scheduled, prioritized, and routed to the SMSC or Direct Delivery Engine.

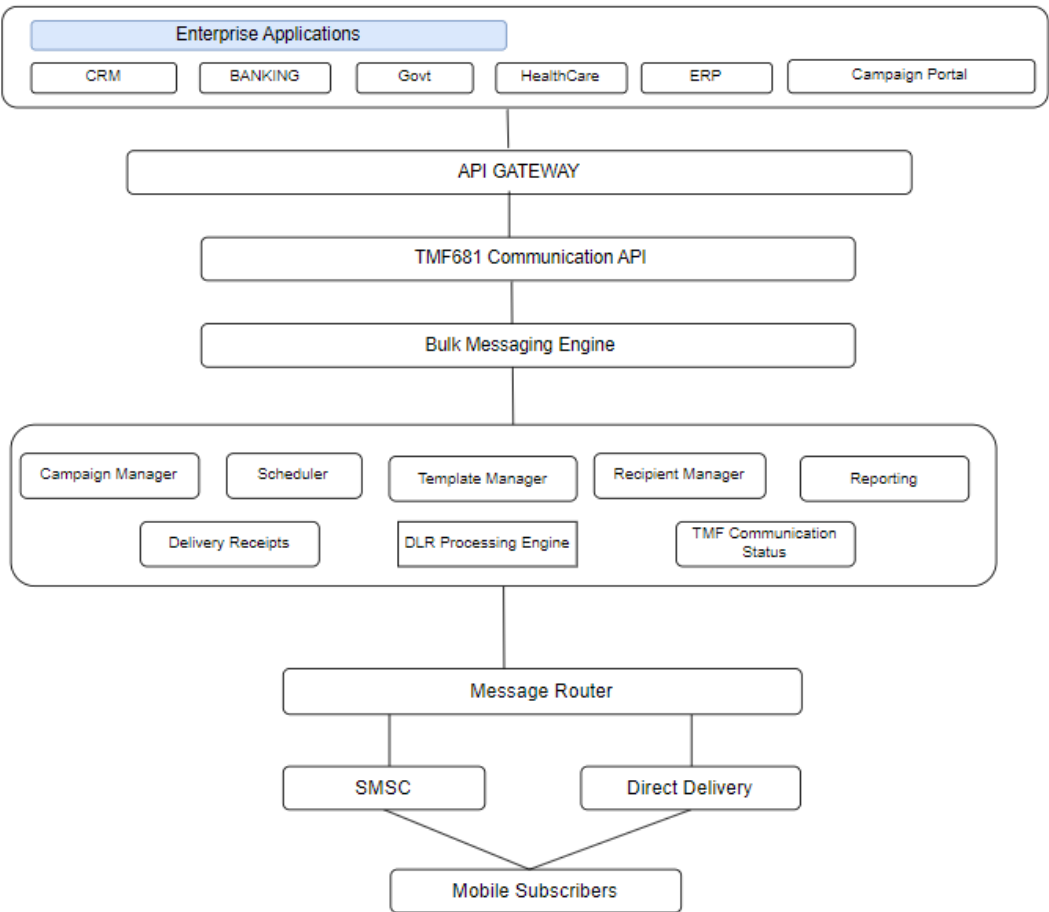
The platform provides:

- Bulk Messaging Engine
- Campaign Management
- Message Scheduler
- Template Management
- Recipient Management
- SMSC Router
- SMPP Client
- HTTP Gateway
- Delivery Receipt Processor
- Retry Manager
- Reporting & Analytics
- Audit & Logging

The platform integrates with one or more SMSCs using SMPP v3.4/v5.0 or HTTP interfaces to deliver SMS messages to mobile subscribers.

Delivery receipts received from SMSCs are processed by the Delivery Receipt Manager and updated through the TMF681 Communication API, providing real-time communication status to enterprise applications.

The architecture enables high-throughput messaging, intelligent SMSC routing, delivery tracking, communication auditing, and scalable enterprise messaging while maintaining interoperability through TM Forum Open API standards.



4. Test Results

Click here to view the test results: [TAYANA-BMP-TMF681-v4-HTMLResults.html](#)