**TM Forum Open APIs**

**Conformance Certification**

*Company Name:* ***Totogi***

*TM Forum Open API Name:*

***Customer Bill Management API TMF678***

*TM Forum Open API Release Version:* ***20.5 / 4.0***

**Report Date: 3rd June 2021**

1. **What Product or Solution does your API support?**

With this deployment we enable a standardized mechanism to find and retrieve one or several customer bills (also called invoices) produced for a customer. The Totogi BSS platform has instantiated the Agreement management API TMF678 and delivered all described functionality within the specification.

Communication Service Providers (CSPs) are constantly moulding and adapting their platforms to communicate with each other. Every new service or product that is delivered to the market requires change to a vast number of systems. Launch times lag the market need and revenue opportunities are lost.

Furthermore, the CSPs need to retain customers and excite those customers into buying more services. The range of services is expanding and the CSP has to adopt new content and create a more personalised experience that delights the customer and extends the size of wallet the CSP can target.

As the range of services are extended the CSP is forced to upgrade or change existing systems, processes and channels while adding new, complementary platforms to evolve to a Digital Services Provider (DSP).

To facilitate this move to the DSP model the Totogi product suite leverages the power of the public cloud. Why? Because the Hyperscalers are investing billions in delivering the best development, data management and performance tools. Totogi leverages that investment and delivers webscale performance and availability.

Totogi BSS is the public cloud based platform that enables a CSP to drive its evolution to becoming a DSP. As it evolves it will incorporate all the TM Forum APIs and enable the CSP/DSP to deliver new services by building applications in low-code/no-code tools that use the instantiated APIs.

**Data Management:** All our APIs store data into a TM Forum compliant data structure. This makes the data available via the public cloud and enables any tool to access information through the API mechanism.

**Analytics and Reporting:** Using Hyperscaler reporting tools the CSP/DSP can rapidly build dashboards and deep analytics on all aspects of their subscribers and their behaviours.

**Public Cloud Architecture:** By having the data on the public cloud you automatically gain the advantages of backup and disaster recovery that are built into the Hyperscaler platforms.

**Rapid Application Development:** The CSP/DSP is now freed from vendor product roadmap lifecycle or internal development backlog that prevents solutions being delivered to meet immediate market need. The Totogi BSS allows the CSP/DSP to solve problems rapidly with low-code/no code tools and writing to open standards.

1. **Overview of Certified API**

The Totogi BSS Customer Bill Management API is a core function within the Totogi BSS APIs to manage basic billing types: postpaid periodical bill; postpaid real-time bill; and prepaid real-time bill. The Totogi BSS Customer Bill Management API is compliant with TMF 678 specifications and offers API access to operations to find and retrieve the details of applied customer billing rates presented on a customer bill.

Furthermore, this API allows a real-time request of the creation of a customer bill and manages the creation request.

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| --- | --- | --- | --- |
| **#** | **Resource** | **API Overview** | **Operations Supported** |
| 1 | customerBillOnDemand | This resource is used to manage the creation request of a customer bill in real-time (on demand). | * GET
* PATCH
* POST
* DELETE
 |
| 2 | customerBill | The customer bill. Can be a regular recurring bill or an extra bill on demand by the customer or the csp. | * GET
* PATCH
* POST
* DELETE
 |
| 3 | appliedCustomerBillingRate | A customer bill displays applied billing rates created before or during the billing process. | * GET
* PATCH
* POST
* DELETE
 |
| 4 | billCycle | A detailed description of a billing cycle and the various sub steps of a billing cycle. | * GET
* PATCH
* POST
* DELETEGET
* PATCH
* POST
* DELETE
 |
| 5 | billCycleSpecification | A detailed description of a billing cycle and the various sub steps of a billing cycle. | * GET
* PATCH
* POST
* DELETE
 |

1. **Architectural View**



1. **Test Results**

