Company Name: Marand Software

TM Forum Open API Name: TMF648 – Quote Management

TM Forum Open API Release Version: 4.0.0

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

This conformance certification report covers the real-world quote management API exposed by Marand’s OmniCPQ and deployed at Telekom Slovenije.

Telekom Slovenije is the leading provider of comprehensive communication services in Slovenia. Telekom connects users and simplifies their lives, and ensures security through a range of the most advanced ICT services and solutions. Telekom Slovenije's portfolio encompasses fixed and mobile communications (fixed and mobile telephony, fixed and mobile broadband services, IP telephony, and IP television), digital content and services, multimedia services and digital advertising, system integration, and cloud services (cloud computing), as well as the construction and maintenance of telecommunications networks. Telekom Slovenije also operates through its subsidiaries on the markets of South-Eastern Europe in Kosovo, Bosnia and Herzegovina, Croatia, Serbia, Montenegro and North Macedonia.

Marand’s OmniCPQ is a catalog-driven configure, price, quote and ordering platform designed and engineered for communication service providers (CSPs). OmniCPQ is comprised of a quote management service (CPQ), shopping cart service, and product ordering service. All three services use a common product configurator service which encapsulates both, pre-ordering and product configuration rules and business logic.

**Quote Management** component supports Telekom Slovenije’s B2B and wholesale quoting processes. The component exposes a TMF648 API that enables creation, retrieval, partial update, and deletion of a customer quote.

Figure 1 presents a high-level solution architecture and outlines the certified API.
Figure 1: high-level solution architecture
2. **Overview of Certified API**

OmniCPQ exposes a TMF648 compliant API to make the quote management capability available to various application modules comprising CSP’s systems of record, engagement, and insight.

The table below lists supported resource and REST operations.

<table>
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<tr>
<th>Resource</th>
<th>Description</th>
<th>REST Operations</th>
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| Quote    | **Quote** resource is used for creation, retrieval, partial update, and deletion of a customer quote. A customer quote includes quote items (referenced to product offerings in the product catalog or products in the product inventory), characteristic values, related parties playing different roles, qualification references, billing account references, quote prices and alterations, addresses, and contact information. | • Get  
• List  
• Post  
• Patch  
• Delete |
3. Architectural View

Product catalog management component exposes a TMF620 API that makes commercial product catalog data available to product order capture & validation and product configurator components (both components are a part of OmniCPQ software product).

Existing product inventories are persisted in separate legacy and strategic inventories (mobile, B2B/wholesale, B2C) and wrapped with “Customer 360 inventory” which exposes consolidated inventory in a unified way through TMF637 API. This way, a strangler pattern is implemented.

Product configurator (PC) component relies on product catalog data (exposed through TMF620) and existing product inventory (exposed through TMF637). PC serves two main purposes: to determine commercial offering eligibility (qualification) and to drive product configuration in various contexts (e.g. quote, order, shopping cart). Product configurator exposes TMF679 and TMF760 APIs.

Product order capture and validation (POCV) component comprises front-end and back-end components for managing quotes and product orders. POCV relies on TMF679 and TMF760 APIs exposed by the PC for offering qualification and configuration. POCV exposes TMF648 and TMF622 APIs for quote management and product order management.

Figure 2 depicts above mentioned open digital architecture (ODA) components with their exposed and consumed APIs.
Figure 2: component diagram shows ODA components and exposed and consumed APIs

4. **Test Results**
Click here to see the test results: [MARAND-TMF648RW API-HTML Results](#)