Telecom SLEE - IN/IMS Platform

A convergent platform for services execution, orchestration, and exposition

Executes services on any type of networks and protocols (**fixed, mobile, IMS and/or VoLTE/VoWiFi**), separating the business logic from the access network.

The **IM-SSF and Reverse IM-SSF functions** allows an effective transition of services between 2G/3G networks and the IMS network.

As an **Orchestrator**, allows the combination of services according to the Operator requirements (**Broker-SCIM**)

Includes a **friendly graphical tool** for the design and development of services and orchestrations.

The simulation tool streamlines the testing and verification of new services and version updates.

Innovative **Side-by-Side execution** of old and new service versions enables seamless traffic migration between them.

NFV, **virtualized** or **Baremetal** deployments.

Smart Investment

- Optimizes license consumption for both traffic and protocols, by enabling the execution of all kinds of services in the same platform.
- One-time integration with Network elements and BSS/OSS systems reduces TCO, CAPEX, OPEX and shortens the ROI.

Efficiency Improvement

- Streamlines the network control layer.
- Bringing higher flexibility, faster implementation times and dedicated testing environments. Eases network planning and day-to-day operations.
- Creates a service development ecosystem for 3rd party developers.

Business Agility

- Reduces the Time-to-Market for new applications development.
- Saves time by automating testing plans.
- Fast rollback by controlling traffic split between versions.

comviva

LATAM Success Stories

LARGE OPERATOR IN BRAZIL

95 MM SUBSCRIBERS

CAPACITY 28K CAPS

6 DISTRIBUTION SITES

NFV DEPLOY

NETWORKS
PSTN, 2G, 3G, IMS

PROTOCOLS
CAP, INAP, SIP, SIP-I, SIP-T, SIP-ISC, Diameter

FUNCTIONS
Broker/ SCIM/ IM-SSF/ AS

SERVICES
PREPAID, BLEC, TUP, SPECIAL SERVICES

LARGE OPERATOR IN BRAZIL

67 MM SUBSCRIBERS

CAPACITY 8,8K CAPS

8 DISTRIBUTION SITES

VIRTUALIZED DEPLOY

NETWORKS
PSTN, 2G, 3G, IMS

PROTOCOLS
CAP, INAP, SIP, Diameter

FUNCTIONS
Broker/ SCIM/ IM-SSF/ AS

SERVICES
VPN, PPS, HOME ZONE, NUMBER TRANSLATION, CALL SCREENING

LARGE OPERATOR IN BRAZIL

48 MM SUBSCRIBERS

CAPACITY 4,3K TPS

2 DISTRIBUTION SITES

BAREMETAL DEPLOY

NETWORKS
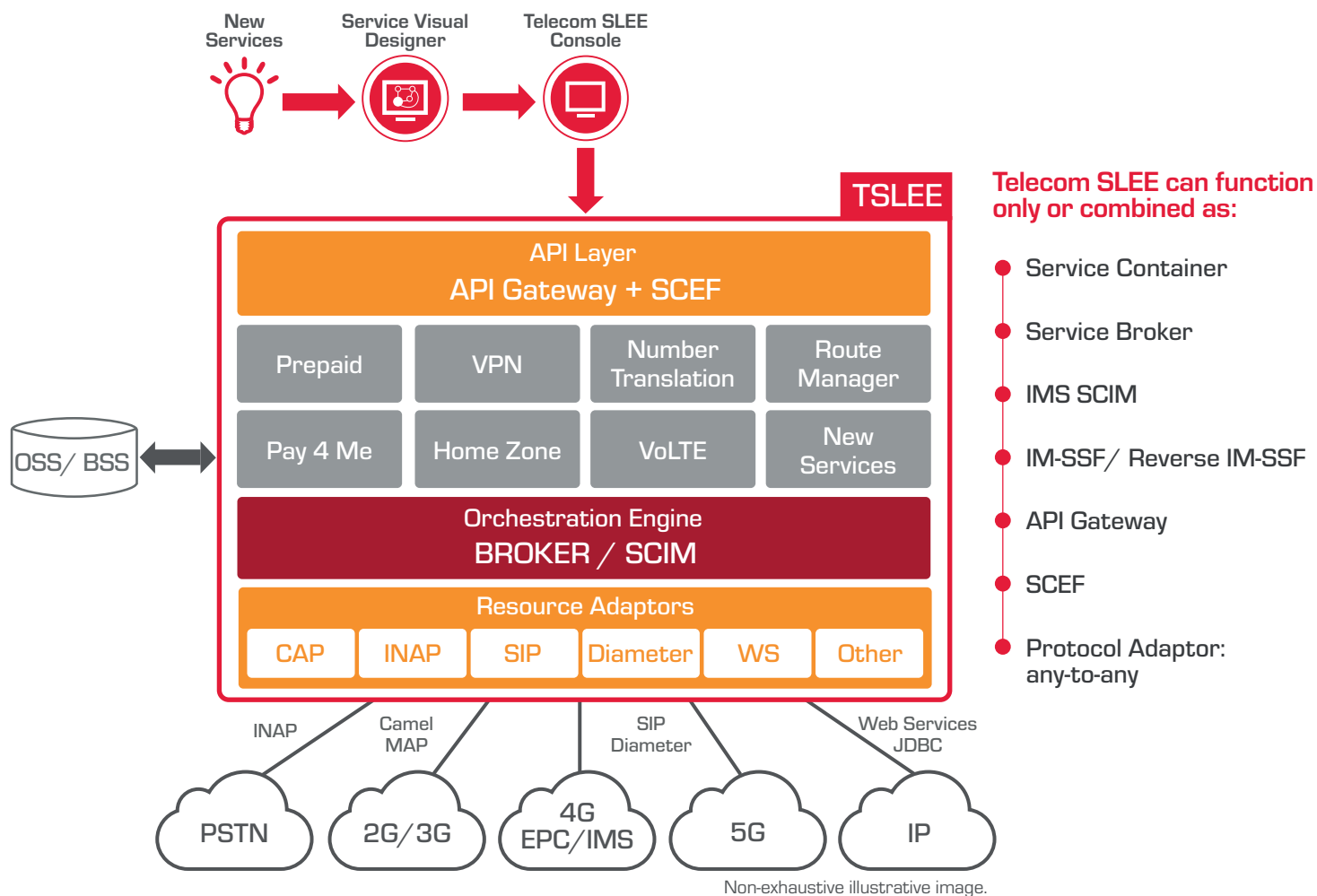PSTN, 2G, 3G, 4G
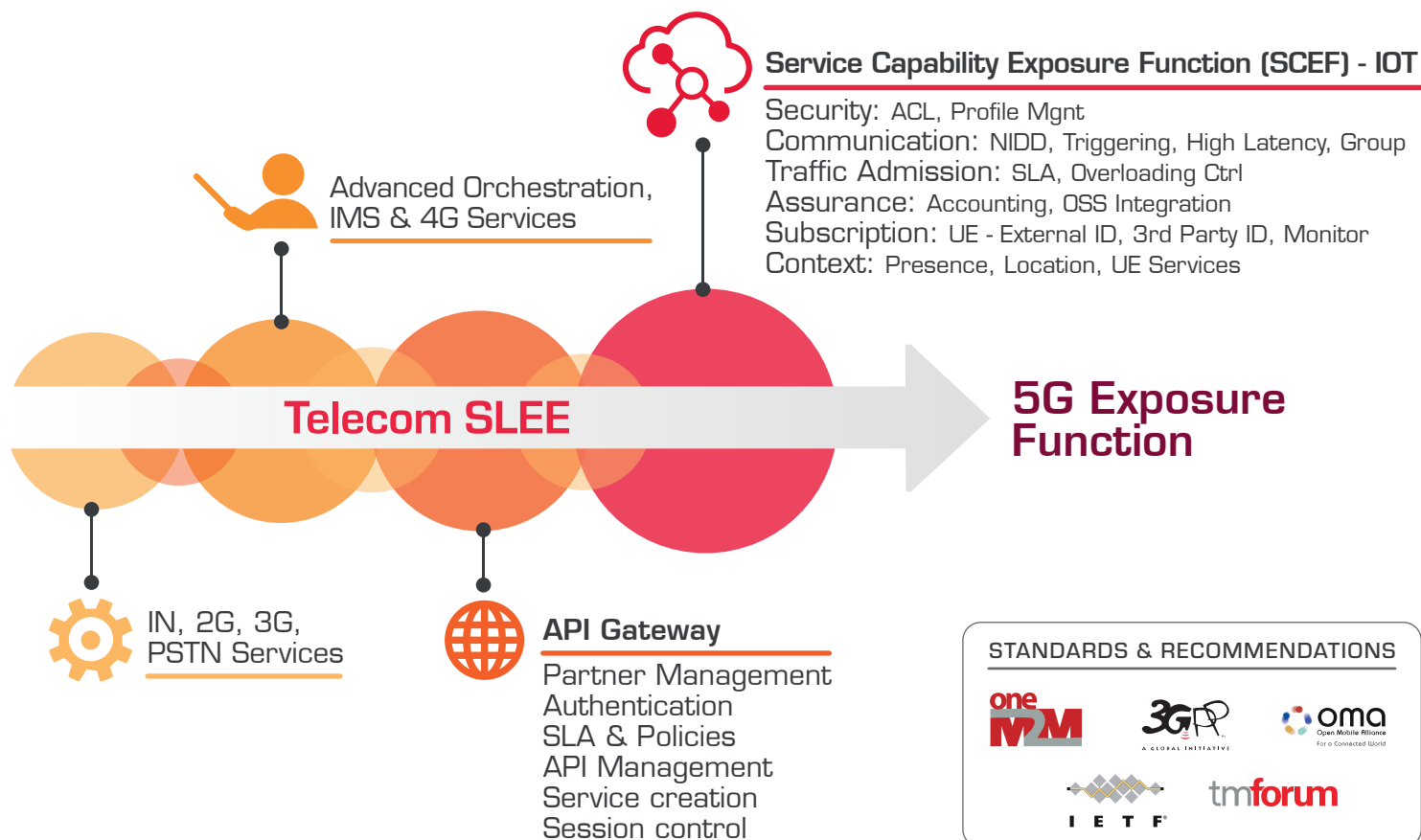
PROTOCOLS
USSD, SIP, SIP-I, SIP-T, SMPP

FUNCTIONS
Broker/ B2BUA

SERVICES
MESSAGING FOR THIRD PARTIES, EMERGENCY CALL, AUTOMATIC SIM ACTIVATION

All-in-One Solution

New Services → Service Visual Designer → Telecom SLEE Console

TSLEE

API Layer
API Gateway + SCEF

| Prepaid | VPN | Number Translation | Route Manager |
| Pay 4 Me | Home Zone | VoLTE | New Services |

Orchestration Engine
BROKER / SCIM

Resource Adaptors

| CAP | INAP | SIP | Diameter | WS | Other |

OSS/ BSS

INAP — Camel MAP — SIP Diameter — Web Services JDBC

PSTN | 2G/3G | 4G EPC/IMS | 5G | IP

Non-exhaustive illustrative image.

Telecom SLEE can function only or combined as:

- Service Container
- Service Broker
- IMS SCIM
- IM-SSF/ Reverse IM-SSF
- API Gateway
- SCEF
- Protocol Adaptor: any-to-any

3GPP SCEF - MTC

Service Capability Exposure Function (SCEF) - IOT

Security: ACL, Profile Mgnt
Communication: NIDD, Triggering, High Latency, Group
Traffic Admission: SLA, Overloading Ctrl
Assurance: Accounting, OSS Integration
Subscription: UE - External ID, 3rd Party ID, Monitor
Context: Presence, Location, UE Services

Advanced Orchestration, IMS & 4G Services

Telecom SLEE

5G Exposure Function

IN, 2G, 3G, PSTN Services

API Gateway
Partner Management
Authentication
SLA & Policies
API Management
Service creation
Session control

STANDARDS & RECOMMENDATIONS

one M2M · 3GPP A GLOBAL INITIATIVE · oma Open Mobile Alliance For a Connected World · IETF · tmforum

Tools

The platform offers a set of tools that enable efficient services management.
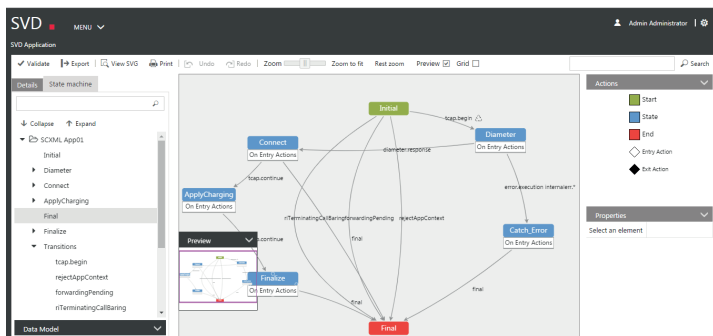
Web Portal
Streamlines platform management through unified access to all applications.

Trace
Enables screenshot of the call or session information. Provides graphical information to analyze: faults, errors, and validations.

Service Visual Designer
Allows design orchestration flow and applications. Speeds the development time with templates.

Business Configuration
Centrally configures the business logic of each service.

Telecom Slee Console
Creates, compiles, activates/deactivates the applications and their versions.

Simulation & Testing Automation Studio
The test-run is executed automatically. Enables testing of a large quantity and range of scenarios.

Management System
Provides a holistic view of the system's health in a centralized and dynamic way. Provides easily recognizable alarms in real time.
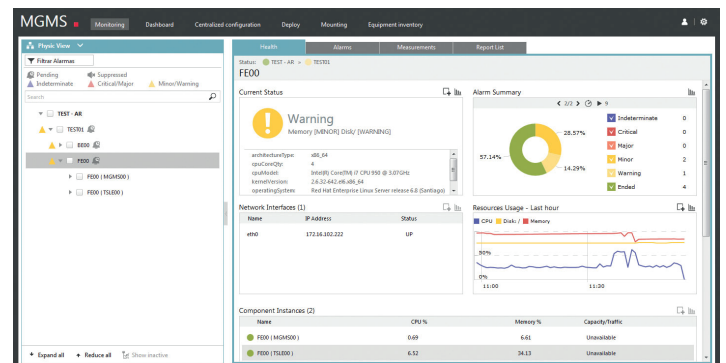
Automatic Report Generator
Facilitates business reports creation and simplifies data analysis for decision making.

Business Activity Monitor
Monitors business activity in real time with service KPIs. Generates interactive graphics with key information in customizable dashboards.

Database Export
Provides configurable and flexible functionalities to export files.

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