

Oracle Communications Session Border Controllers Accelerate SIP Interconnect Initiative

TIM Brasil, one of the largest communications service providers in Brazil and the leader in 4G coverage and VoLTE, uses Oracle Communications Session Border Controllers to protect and control its SIP interconnect borders. Deployed as a virtualized network function, the Oracle solution accelerates time-to-value and ensures high security, availability and scalability for SIP-based connections to other service providers.

OVERVIEW

TIM Brasil continuously seeks innovative ways to contain costs and differentiate its solutions in today's hypercompetitive business environment. To that end, the forward-looking service provider transitioned its legacy TDM-based interconnects to IP to reduce total cost of ownership and increase service agility. TIM uses Oracle Communications Session Border Controllers to protect its SIP interconnect borders and to simplify interoperability with other service provider networks. The Oracle solution is deployed as a virtualized network function on industry standard bare-metal servers for ultimate economics and extensibility.

CHALLENGES

- Accelerate SIP national interconnect and peering initiative
- Ensure high security, availability and scalability for SIP-based connections
- Streamline interoperability with other service provider networks and comply with government regulations
- Minimize network infrastructure cost and complexity, and simplify operations

RESULTS

- Rapid deployment of new SIP-based national interconnects
- No retraining operations staff or retooling administrative systems
- No impact or disruption to existing customers
- Highly scalable, reliable and cost-effective foundation for future growth



“Oracle’s virtualized SBC lets us efficiently scale our network infrastructure to keep pace with massive SIP interconnect growth. The NFV solution supports the same administrative interface as the familiar Acme Packet hardware platforms so it is very easy for our operations team to deploy and manage.”

*ALTAIR SANTANA
SENIOR MANAGER OF
ENGINEERING*

WHY ORACLE?

TIM Brasil used Oracle Communications solutions for peering and for SIP trunking for many years and was well versed in the financial and functional advantages of the Oracle Communications Session Border Controller. Confident in the company and its solutions, the service provider turned to Oracle to accelerate its SIP interconnect and peering initiative.

The Oracle solution lets TIM establish flexible SIP-based connections to other Brazilian service providers — quickly and cost-effectively — without compromising security or service quality. The solution helps the network operator reduce capital equipment expenditures and contain ongoing operations expenses by consolidating network elements and SIP signaling traffic, and simplifying administration.

Oracle Communications Session Border Controllers protect and control the operator's SIP interconnect borders, mitigating denial of service attacks and other security threats. The Oracle product supports all commonly used IP communications protocols including SIP, SIP-I, SIP-T, Diameter, H.323, Message Session Relay Protocol, and Real Time Streaming Protocol, allowing TIM to peer with a wide range of service providers. The product's unique Header Manipulation Rules help TIM efficiently resolve multivendor interoperability issues and multiprotocol interworking issues, streamlining integration with other service provider networks.

TIM implemented the Oracle Communications Session Border Controller as a virtualized network function running on VMWare® ESXi to optimize economics and service agility. The Oracle solution is one of the first virtualized network elements deployed in TIM's new NFV-based data center. The NFV SBC implementation supports the same software features and management interface as Oracle's purpose-built SBC platform, enabling seamless integration with TIM's existing operations systems and practices.

TIM now benefits from all the functional and economic advantages of SIP-based connectivity, while maintaining high security, availability and service quality. Oracle Communications Session Border Controllers helped TIM fast-track its SIP interconnect and peering program, minimize cost and complexity, and mitigate risk. The NFV-based implementation provides a solid foundation for growth, allowing TIM to minimize upfront investments and tightly align ongoing expenses with evolving business demands.

ABOUT TIM

TIM Brasil continues with its mission of connecting and caring for each individual so that everyone can do more. To achieve this, it focuses on the strategic pillars of supply, infrastructure, efficiency and customer experience, based on an internal culture of accountability and the change of processes and platforms that allow digital transformation. The new signature of the brand — "Evolution never stops" — reinforces the company's commitment to its Investment Plan with the goal of becoming the best telecommunications operator in Brazil.

Since 2015, TIM has been the country's leader in 4G coverage and VoLTE and has been a reference for mobile and fixed-line broadband players. It is the only telecommunications company in the market segment of B3, recognized as the highest level of corporate governance. In addition, it is the telecommunications operator with the longest consecutive standing in the Corporate Sustainability Index (ISE). For more information visit: www.tim.com.

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