

# Oracle Enterprise Session Border Controller For OCI Marketplace

Oracle's Enterprise Session Border Controller (E-SBC) can now be quickly deployed on Oracle Cloud Infrastructure (OCI) via the OCI Marketplace using the "Bring Your Own License" model. Leveraging OCI's architecture, which is inherently suitable for Real Time Communications, the Oracle E-SBC offers best-in-class redundancy with stateful High Availability over geographically redundant cloud domains without the need of additional load balancers. The Oracle E-SBCs deployed on OCI provide the highest performance and lowest egress data cost available.

## OVERVIEW

The E-SBC for Oracle Cloud Infrastructure leverages the same code base as Oracle's appliance based E-SBCs. It provides the strong security, reliability and scalability that enterprises and contact centers rely on for their real-time communications. Starting at 25 sessions, the E-SBC on OCI can be deployed by small to very large enterprises for use cases including: SIP trunking, unified communications & collaboration (UC&C), contact centers (CC), hosted voice services, and connecting remote workers. The E-SBC is both horizontally and vertically scalable depending on capacity and performance requirements. There is also the option of Oracle's network wide licensing (NWL) model which enables license rebalancing and capacity redistribution for efficient use of virtualization resources.

The E-SBC is designed to fit into Oracle's mission to see data in new ways, discover insights, and unlock endless possibilities. Our E-SBC aligns to Oracle's Network Function Virtualization (NFV) vision, offering the simplified manageability, orchestration, and integrated analytics synonymous with a cloud native architecture. Oracle's E-SBC is certified with leading UC&C, CC and hosted telephony platforms, including Genesys PureEngage, Microsoft Teams and Zoom Phone.

The E-SBC is a field-proven solution for connecting a wide range of multivendor VoIP, UCC and contact center systems to public network services, including SIP trunking services, the Internet and cloud applications.

### E-SBC on OCI

- Stateful, geo-redundant high availability
- High performance
- Low egress data cost

### Oracle Advantage

- Common code base with appliance E-SBCs
- Feature parity from small to large scale deployments
- DSP support for high scale transcoding
- Small footprint E-SBC for MSPs
- FIPS and JITC compliant
- Microsoft Teams certified
- Zoom certified
- Genesys PureEngage contact center certified
- Automation via industry standard HEAT Templates
- Configuration and life cycle management through REST APIs
- Built-in Oracle Enterprise Operations Monitor probe
- Pooled Network Wide Licensing

### Applications

- SIP Trunking
- IP Enabled Contact Centers
- Unified Communications
- Hosted IP Communication Services
- Remote Workers and Offices

## ORACLE E-SBC ADVANTAGE ON OCI

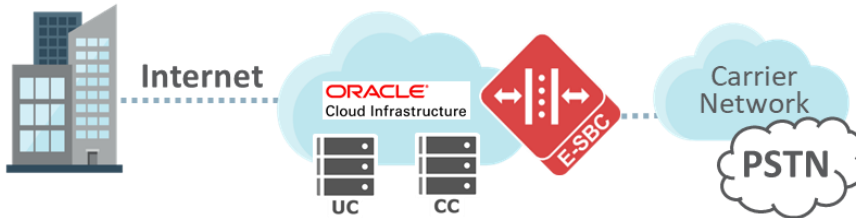
Oracle Cloud Infrastructure offers advantages over other public clouds due to its architecture designed for real time communications.

**Stateful, Geo-redundant High Availability** - The architecture of E-SBC on OCI utilizes virtual subnets over geographic separate locations, removing the need to use additional load balancers as typical with other public clouds deployments and significantly improving failover times.

**High Performance** - The Oracle E-SBC has proven to be the highest scale & most resilient E-SBC available.

**Low egress data cost** - Oracle has 10TB egress data included, which supports up to 2.3 million calls per month. For additional egress data, Oracle Cloud Infrastructure has lower egress costs per GB than all major cloud providers.

## DEPLOYMENT ON ORACLE CLOUD INFRASTRUCTURE



The virtualized instances can be deployed on OCI through the OCI Marketplace through a few clicks of the mouse

## E-SBC DATASHEET

### Specifications and Capacities on OCI

Feature	Oracle E-SBC on OCI
Hypervisor	KVM
OpenStack	✓
Encryption	Software SRTP/TLS
Min. Requirements	3 cores/4vCPUs 16GB RAM 40GB
Shapes Available on OCI*	VM.Standard 1.x and 2.x

\*VM STANDARD SHAPES WITH 2,4,8 AND 16 OCPUS

### Key Business Benefits

- Enables E-SBC functionality to be placed where most effective and least expensive to operate
- Simplifies & accelerates service deployment
- Reduces CAPEX & OPEX
- Protects real-time communications against cyber-attacks
- Enables Cloud transformations

### Related Products

The following products support Oracle Enterprise Session Border Controller:

- [Oracle Enterprise Operations Monitor](#)
- [Oracle Enterprise Telephony Fraud Monitor](#)
- [Oracle Enterprise Communications Broker](#)
- [Oracle Communications Session Delivery Manager](#)
- [Oracle Communications Security Shield Cloud](#)

## E-SBC CRITICAL FEATURES & CAPABILITIES

FEATURE	CAPABILITIES
<b>SECURITY</b>	<ul style="list-style-type: none"> <li>• Granular access control</li> <li>• IP address and SIP signaling concealment</li> <li>• Layer three through five topology hiding and signaling overload controls</li> <li>• IP telephony spam protection</li> <li>• Stateful deep packet inspection</li> <li>• Signaling and media encryption</li> <li>• FIPS/JITC Compliant including MSRP FIPS for E-SBC</li> </ul>
<b>INTEROPERABILITY</b>	<ul style="list-style-type: none"> <li>• SIP message normalization</li> <li>• Response code translation</li> <li>• SDP and Dual Tone Multi-Frequency (DTMF) manipulation</li> <li>• Number and uniform resource identifier (URI) manipulation</li> <li>• Header manipulation rules (HMR)</li> <li>• SIP / H.323 signaling interworking</li> <li>• Protocol interworking: Transmission Control Protocol (TCP), User Datagram Protocol (UDP)</li> <li>• Encryption interworking: Transport Layer Security (TLS), Mutual TLS, Secure Real-time Transport Protocol (SRTP), IP Security (IPsec)</li> <li>• IP address translation: private/public, IPv4/IPv6</li> <li>• Network address translation (NAT) and firewall traversal</li> <li>• Transcoding</li> </ul>
<b>RELIABILITY</b>	<ul style="list-style-type: none"> <li>• Standby SIP registrar with caching for remote site survivability</li> <li>• Stateful signaling and media failover</li> <li>• Quality of service (QoS) marking, virtual local area network (VLAN) mapping</li> <li>• Registration storm &amp; call avalanche avoidance</li> <li>• Call rate limit enforcement</li> <li>• Trunk load balancing</li> <li>• Stateful session routing</li> <li>• QoS-based routing</li> </ul>
<b>REGULATORY COMPLIANCE</b>	<ul style="list-style-type: none"> <li>• Session prioritization for emergency services</li> <li>• IETF SIPREC interface</li> <li>• Call detail records (CDRs) with local or remote storage via RADIUS</li> </ul>
<b>COST MANAGEMENT</b>	<ul style="list-style-type: none"> <li>• Least cost routing</li> <li>• CODEC renegotiation</li> </ul>
<b>MANAGEMENT</b>	<ul style="list-style-type: none"> <li>• Embedded Oracle Enterprise Operations Monitor probe</li> <li>• Secure, browser-based GUI</li> <li>• SIP monitoring and tracing tool</li> <li>• SNMP agent, XML configuration files, Syslog, SFTP, RADIUS interfaces</li> <li>• Subnet masks for SNMP</li> <li>• REST API Support for configuration and life cycle management</li> </ul>

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