



verizon Session Border Controller Instruction Manual

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Session Border Controller

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Product Information

Specifications

- Product Name: Session Border Controller as a Service (SBCaaS)
- Service Type: Virtual network service
- Service Features: Session Border Controller services on cloud-based Virtual Machines (VMs)
- Concurrent Calls (CCLs) Range: 25 to 5000 per Session Border Controller
- Features:
 - Advanced Call Routing Engine
 - Support for advanced routing features
 - Basic Call Routing Engine
 - Media Services Protocol Interworking
 - Quality of Service (QoS)
 - Security for VoIP Traffic Signaling Services

Product Usage Instructions

1. Service Sizing

Customer needs to choose the number of concurrent calls (CCLs) per Session Border Controller within the range of 25 to 5000.

2. Session Border Controller Deployment and Configuration

Verizon will create a Customer design document (CDD) based on the written statement of requirements (SOR) agreed to by the Customer. Verizon will activate, monitor, and manage the Customer Network according to the CDD.

3. Supplemental Terms

3.1 Verizon Responsibilities

Verizon will provide the demarcation of SBCaaS at HNS service edge.

3.2 Customer Responsibilities

Customer must use IP addresses designated by Verizon for SBCaaS and not use nonapproved IP addressing. Customer must also use Verizon-approved Third Party Unified Communications Providers (TPUC) platforms and manage the TPUC relationship including certificate renewals.

FAQs

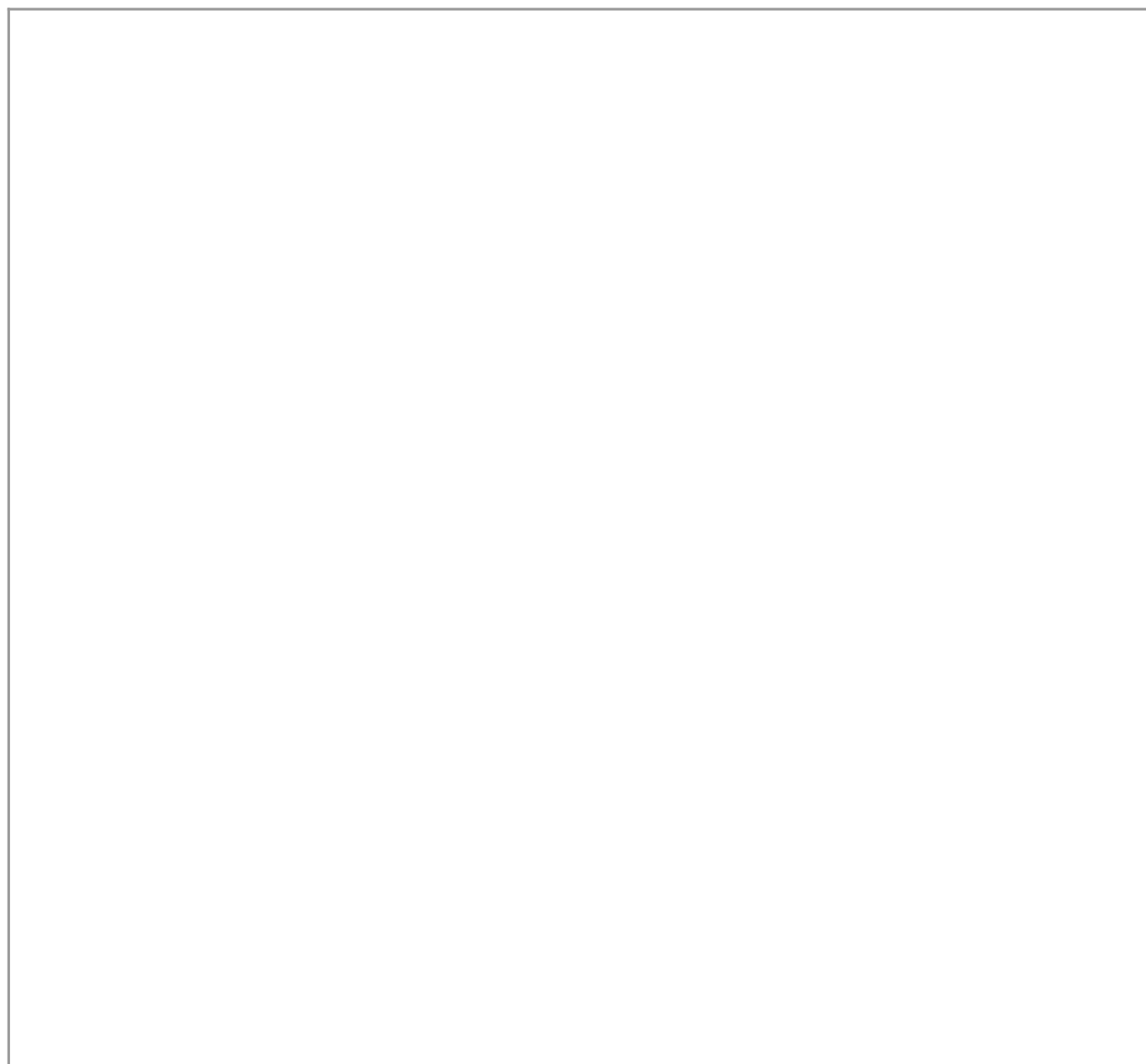
Q: What is the range of concurrent calls supported per Session Border Controller?

A: The range is from 25 to 5000 concurrent calls per Session Border Controller.

Q: What are the main features provided by the Session Border Controller?

A: The Session Border Controller provides features such as advanced call routing, media services protocol interworking, quality of service (QoS), and security for VoIP Traffic Signaling Services.

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SESSION BORDER CONTROLLER AS A SERVICE +

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1. GENERAL

1.1 Service Definition. Session Border Controller as a Service (SBCaaS) is a virtual network service that provides Session Border Controller (SBC) services on cloud-based Virtual Machines (VMs) in the Hosted Network Service (HNS) environment. To the extent terms are contained below, such terms will apply to SBCaaS.

1.2 Standard Service Features. These service terms include a description of the technical and operational requirements of SBCaaS to be provided by Verizon.

2. SERVICE ELEMENTS

2.1 Service Sizing. Customer will choose the maximum number of concurrent calls (CCLs) per Session Border Controller. The CCL sizing range is specified in the table below. Verizon will work with Customer to help Customer identify and select an appropriate number of CCLs per SBC based on Customer's intended use.

| Minimum Concurrent Calls (CCLs) Per SBC | Maximum Concurrent Calls (CCLs) Per SBC |
|---|---|
|---|---|

| | |
|----|------|
| 25 | 5000 |
|----|------|

2.2 Session Border Controller. With SBCaaS, Verizon will provide an SBC hosted by Verizon and supported by the HNS platform. The SBC provided to Customer can provide the following features:

Advanced Call Routing Engine

Support for advanced routing features including routing based on SIP username/URL routing, route prioritization including time of day, day of week, call screening and blocking

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Basic Call Routing Engine Media Services Protocol Interworking Quality of Service (QoS)

Security

Security for VoIP Traffic Signaling Services

Call routing based on called and calling party, trunk groups, codec filtering and call route prioritization Border-based media control services such as, Network Address Translation (NAT) and Network Address Port Translation (NAPT) traversal, media anchoring, transcoding, DTMF detection and insertion SIP/H.323, IPv4-IPv6 Interworking QoS network and prioritization policies including bandwidth management, Type of Service (ToS) packet marking, and call admission control Network protection including session aware firewall functionality, Denial of Service (DoS) and Distributed Denial of Service (DDoS) protection, topology hiding, rogue RTP protection, malformed packet protection, media encryption (SRTP) and signaling encryption (IPsec, TLS) Standards based security services for Real Time Communications (RTC) traffic, e.g., RTP, TLS, etc. Support for industry standard signaling protocols, such as SIP, SIP I/T and H.323 in addition to protocol interworking

2.3 Session Border Controller Deployment and Configuration. Verizon will create a Customer design document (CDD) based on a written statement of requirements (SOR) agreed to by Customer. Verizon will activate, monitor, and manage the Customer Network as designed in the CDD. If Verizon deems the design to be nonstandard, a separate statement of work will be required.

2.4 Full Management Service Level. Verizon will provide management for SBCaaS as follows:

- Notification. Verizon provides incident notification for SBCaaS. Verizon will create a trouble ticket and attempt to notify Customer's designated point of contact via e-mail or automated phone message within 15 minutes of Verizon's determination of an SBCaaS failure on the HNS.
- Managed Services Customer Portal. The managed services portal, available via the Verizon Enterprise Center (VEC), is an Internet web portal that provides a view of Customer network information 24 hours a day, seven days a week. Customer is limited to 10 user accounts and is responsible for ensuring that all users understand and comply with Verizon's confidentiality requirements. The VEC can be accessed at: www.verizon.com/business/
- Digital Connect API Gateway. Verizon will provide access to the Digital Connect API Gateway (<https://digitalconnect.verizon.com>) (API Gateway) so Customer can develop an application program interface (API) to allow for eBonding to Verizon for services such

as incident management or change management.

- Change Management Activities. “Standard Change Management” activities shown on the VEC are provided at no additional charge.

- Monitoring and Management. Verizon provides proactive monitoring of all SBCs 24 hours a day, seven days a week. Verizon will monitor the SBCs via use of the simple network management protocol (SNMP) and internet control message protocol (ICMP, commonly called a “ping”) for status and error conditions (e.g., SNMP trap messages). Management of SBCaaS includes management of applicable SBCaaS software licenses.

- SBCaaS Patches and Upgrades. Verizon will provide relevant software patches as provided by the SBC manufacturer from time to time for installation during a scheduled maintenance period. Verizon will provide relevant software upgrades as provided by the SBC manufacturer from time to time at

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Verizon’s initiation or at Customer’s request.

3. SUPPLEMENTAL TERMS

3.1 Verizon Responsibilities

3.1.1 Demarcation. Verizon will provide the demarcation of SBCaaS at HNS service edge.

3.2 Customer Responsibilities

3.2.1 IP Addresses. Verizon will designate IP addresses for use with SBCaaS. Customer will not use nonapproved IP addressing on SBCaaS. Verizon also reserves the right to use border gateway protocol (BGP) routing when SBCaaS terminates Verizon transport.

3.2.2

Third Party Unified Communications Providers (TPUC). Customer must use Verizon-approved TPUC platforms (e.g., MS Teams). Customer must obtain any signed digital certificates required for encrypted connections to the TPUC and manage the TPUC relationship including certificate renewals. Customer is responsible to provide Verizon with original digital certificates and any renewals thereof through the VEC.

3.2.3 Customer Notifications. Customer shall report detected SBCaaS failures and provide information to the Verizon Customer Service Center within twenty-four hours.

3.2.4 Back Up. Customer is responsible for the adequacy of any duplication or documentation for its electronic files at all times. Neither Verizon nor its designees are responsible or liable for Customer's failure to duplicate or document files or for data or files lost during the performance of SBCaaS.

3.2.5

Reports. All copies of any reports, recommendations, documentation, VEC printouts, or other materials in any media form provided to Customer by Verizon will be treated by Customer as Verizon Confidential Information. Customer Confidential Information, if embedded in the above, shall continue to be treated as Customer Confidential Information.

3.2.6 VEC or API Gateway User Names and Passwords. Customer must immediately notify Verizon upon learning of any unauthorized use of Customer's login credentials. Customer is responsible for all activities and Charges incurred through the use of the compromised login credentials.

4. SERVICE LEVEL AGREEMENT. The SBCaaS service level agreement (SLA) may be found at the following URL: www.verizon.com/business/service_guide/reg/cp-session-border-controller-as-a-service-sla.pdf

5. FINANCIAL TERMS

5.1 Rates and Charges. Customer will pay the monthly recurring charges (MRCs) for SBCaaS as specified

in

the

applicable

Order

and

at

the

following

URL:

www.verizon.com/business/service_guide/reg/applicable_charges_toc.htm and
Customer's Service

Commitment will be as specified in the applicable Order.

5.1.1 Customer will pay additional MRCs for any optional services or features ordered by Customer as shown in an Order. SBCaaS MRCs are fixed for the Service Commitment. Customer is responsible for controlling access to, and the use of its telecommunications equipment and facilities.

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Verizon may use various tools and processes to try to identify potential fraudulent use of the Service, however Customer remains solely responsible for protecting against any fraudulent use. Fraudulent use indicators include unusual call patterns or call volume variation. If Verizon determines or reasonably believes that there is fraudulent use, Verizon may take immediate action that is reasonably necessary to prevent such use, including suspending the affected Services in accordance with the Service Suspension clause in the Master Terms. Verizon’s actions are discretionary and there is no guarantee of prevention or detection of fraud. Customer is responsible for all Charges for the Service, even if incurred as a result of fraudulent or unauthorized use, unless such fraudulent usage results directly from Verizon’s gross negligence or intentional misconduct.

5.2 Service Commitment. The minimum Service Commitment is three years, beginning on the Activation Date.

5.3 Auto-Renewal. The Service Commitment period will auto-renew for one year periods at the end of the then current Service Commitment period unless Customer provides written notice of its intent for nonrenewal at least 60 days prior to the end of the then current Service Commitment period at which point, the Agreement with respect to SBCaaS will terminate at end of such Service Commitment.

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Documents / Resources

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|  | verizon Session Border Controller [pdf] Instruction Manual Session Border Controller, Border Controller, Controller |
|---|--|

References

- [User Manual](#)

📁 Border Controller, controller, Session Border Controller,

📁 Verizon Verizon

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