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# Working with the ASM and SBA

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Not supported by SBC SWe Lite in this release.

## Understanding the SBA Concept

A Survivable Branch Appliance (SBA) is a device that increases the resiliency of branch office communications during network failures because it is able to switch Lync VoIP calls from the network over to the PSTN. Sonus offers this functionality for Lync and Skype for Business within the SBC Edge using an Application Solution Module (ASM) that hosts the Microsoft SBA component.

Microsoft proscribed the functionality and security model for the SBA. Sonus is responsible for the method used to reach the Microsoft recommendation.

The Sonus ASM operates in either of two modes:

- In **Appliance** mode, the SBA utilizes Sonus' solution to guarantee security and reliability. Sonus fully support the ASM (Hardware and Software)
- In **Server** mode, the SBA is customized by the customer with a solution not tested or approved by Sonus. Customization can be for functionality or security purposes. Sonus doesn't know the impact of this customization, therefore can only support the Hardware components.

By default, all ASMs are shipped in Appliance mode. Any customization will turn the ASM into Server mode. The only way to return into appliance mode is to re-initialize the ASM using the on-board capability via the WebUI.

## Deploying the SBA (Survivable Branch Appliance)

- Adding the SBA to Active Directory
- Adding the SBA to your Lync 2010 Topology
- Adding the SBA to your Lync 2013 Topology
- Verifying and Configuring DNS

## Managing the ASM

- Powering the ASM ON and OFF
- Installing an ASM Package
- Approved Partner Solutions for ASM
  - ASM 3rd Party Validation - PeterConnects Agent
  - ASM 3rd Party Validation - SCOM Agent
  - Installing Event Zero on ASM SBA
  - Installing Microsoft Skype for Business SDN 2.2 on ASM SBA
  - Installing Numonix Call Recording on the SBC 2000 ASM
  - Installing Verba Collaboration Recording Agent
  - Installing Sophos Antivirus and Ransomware Protection on the ASM
- Installing Unsupported Third-Party Applications on the ASM via VM
- Viewing the Installed Packages on the ASM
- ASM Security
- Upgrading the ASM Image From Windows-Only to Lync SBA
- Starting the SBA Services
- Generate and Import an SBA Certificate
- Deploying the SBA
- Upgrading the SBA
  - Skype for Business - Best Practice Upgrade to Skype for Business 2015 SBA
  - Skype for Business - Best Practice Downgrade to Lync 2010 SBA
  - Skype for Business - Best Practice Upgrade to Lync 2013 SBA on Windows Server 2012 R2
  - Best Practice Downgrade to Lync 2013 SBA for Windows Server 2008R2
- Joining the ASM to a Domain

- Updating the ASM Recovery Partition
- Configuring the ASM IP Settings
- Enabling and Disabling Remote Desktop on the ASM
- Changing the ASM Admin Password
- Rebooting and Resetting the ASM
- Re-initializing the ASM
- Viewing and Exporting Windows Event Logs on the ASM
- Managing the Windows Firewall on the ASM
  - Configuring the ASM Firewall
  - Resetting and Listing Windows Firewall Rules on the ASM
- Managing ASM Virtual Machines
  - PreRequisites - Managing the VM
  - Accessing and Modifying ASM Virtual Machines
  - Operating ASM Virtual Machines
- Remote Update of ASM Recovery Partition
- Best Practice - Repurposing the Sonus Cloud Link ASM for Skype for Business Server 2015 Standard Edition
- Best Practice - Repurposing the Sonus Cloud Link as a Lync/Skype SBA Device
- Best Practice - Common Use Cases for Repurposing the ASM for Third-Party Applications and Server Mode

## Applying an SBA Security Template

### Microsoft Lync Server 2010 Quick Start Guide

- Configuring the Lync 2010 Server - Dial Plan and Gateway
- Creating a Lync 2010 User

### Managing the Skype Lync SBA

- Viewing ASM Operational Status
- Installing Cumulative Updates for Lync SBA
- Starting and Stopping SBA Services
- Importing an SBA Certificate
- Exporting an SBA Certificate
- Testing a Lync Call

### Lync Related Best Practices

- Configuring SBC Edge and Lync to Support Enhanced Emergency (911) Services
- Configuring SBC Edge for Lync E911 with PSAP Callback Number
- LYNC-Side Gateway Failover Configuration
- Lync 2013 Call Forwarding Integration to an ITSP
- Skype/Lync Presence - Configuration Best Practices

### Managing the SBC Communication Service

- Viewing the SBC Communication Service Version
- Upgrading the SBC Communication Service Version