

Creating an IP Plan

Once you have successfully installed the SBC 5000 series and/or SBC 7000 hardware, you are ready to install the application software. As part of this installation, you are prompted for configuration information by the Platform Manager.


Create an IP Plan prior to installing the software. The IP Plan is generally completed using an Excel spreadsheet, and is intended to capture information such as hostname, logical IP addresses, and so forth to help configure the SBC system. It is important to complete this document (even for simple networks) so your system information is readily available when you begin installing the software, and to maintain this information as a reference for future configuration changes.

 If needed, please contact Sonus for an example IP Plan.

The steps for installing the application are included in section [Installing SBC Application](#).

Example IP Plan Details

The following example is for a redundant High Availability (HA) configuration with one standby SBC protecting the active SBC.


 **Caution**
Ensure the Management and Media IP addresses are on different subnets to avoid potential conflicts.



[Click here](#) to download an example spreadsheet.

Field	Description	Example/Recommendation
System Name	This is the name of the overall SBC system, and is used as the designation of all servers within HA pair. See System Name and Hostname Conventions for naming conventions. If external routing is used, the system name is referred to by the PSX. You <i>MUST</i> use the same name on the Active and Standby system installation.	DALSBC01
Time zone	The time zone used in your billing records. Can be the time zone of the location. Note: changing the time zone will cause the application to restart.	gmtMinus06-Central- US
Contact Information	Who to contact about the system	Joe Smith 888-555-1212
Location	Location of the system	Dallas, TX
NTP Primary	The IP address of the NTP server. A NTP source is necessary for correct system operation.	10.11.12.2/24 or fd00:10:6b50:4130:1
NTP Secondary	The IP address of the NTP server. A NTP source is necessary for correct system operation.	10.11.12.3/24 or fd00:10:6b50:4130:2


Logical Management IP Address	This IP address can be used to access the active unit, it is not tied to a particular physical unit. When a unit becomes active, this IP address “moves” to that unit.	10.11.13.3 (or any IP address within the Management IP subnet)
Logical Management IP Address - Name	The name (used of reference only) of the Logical Management IP	DALNBS01_MGMT
Unit A and Unit B:	Configure on Unit A only (IP address moves from one Unit to the other on a fail over)	
Packet Ports		
Packet Port 0 IP Address	The IP address of the interface. SIP and RTP traffic use this physical interface. This IP address is used for RTP traffic (SIP traffic uses a different IP address).	10.11.14.1
Packet Port 0 VLAN	The VLAN tag of the interface (optional).	100
Packet Port 0 Netmask	The Netmask of the interface (in “prefix” format).	/24
Packet Port 1 IP Address	The IP address of the interface. SIP and RTP traffic use this physical interface. This IP address is used for RTP traffic (SIP traffic uses a different IP address).	10.11.15.1
Packet Port 1 VLAN	The VLAN tag of the interface (optional).	200
Packet Port 1 Netmask	The Netmask of the interface (in “prefix” format).	/24
Packet Port 2 IP Address*	The IP address of the interface. SIP and RTP traffic use this physical interface. This IP address is used for RTP traffic (SIP traffic uses a different IP address).	10.11.16.1
Packet Port 2 VLAN*	The VLAN tag of the interface. This is optional.	300
Packet Port 2 Netmask*	The Netmask of the interface (in “prefix” format).	/24
Packet Port 3 IP Address*	The IP address of the interface. SIP and RTP traffic use this physical interface. This IP address is used for RTP traffic (SIP traffic uses a different IP address).	10.11.17.1
Packet Port 3 VLAN*	The VLAN tag of the interface. This is optional.	400
Packet Port 3 Netmask*	The Netmask of the interface (in “prefix” format).	/24
* Packet Port 2 and 3 are not applicable for SBC 51x0 platforms.		

HA Ports (not applicable for stand-alone configuration)

 The HA ports of active and standby SBC nodes should be on the same subnet when the boxes are not directly connected.

Active CE IP	<p>Specifies the active VM IP address in HA pair. The Active CE uses this IP which is configured to the HA port to communicate/synchronize/mirror the data with the Standby CE.</p> <p>These Inter CE IP addresses should be in a different network from the management network.</p> <p>Recommendation is to use default value when configured for single HA pair on HA subnet (subnet for HA ports of active/standby).</p>	<p>169.254.99.1 (default)</p> <div style="border: 1px solid yellow; padding: 5px; background-color: #ffffcc;">  Active and Standby CE IP addresses must be in the same subnet. </div>
Standby CE IP	<p>Specifies the standby VM IP address in HA pair. The Standby CE uses this IP which is configured to the HA port to communicate/synchronize/mirror the data with the Active CE.</p> <p>These Inter CE IP addresses should be in a different network from the management network.</p> <p>Recommendation is to use default value when configured for single HA pair on HA subnet (subnet for HA ports of active/standby).</p>	<p>169.254.88.1 (default)</p>
HA Interface Mask (Inter CE Prefix)	<p>Netmask of the network in which the Active/Standby IPs are configured.</p> <div style="border: 1px solid yellow; padding: 5px; background-color: #ffffcc;">  If default Active and Standby CE IP addresses are not used, use Inter CE prefix as '255.255.255.0'. </div>	<p>255.255.0.0 (default)</p>

Management Ports

 The configuration of the IP management interface is performed as part of the initial-bootscrip, and is not meant to be re-configured through the EMA. Each SBC has a redundant pair of physical ports for managing traffic.

Management Interface0 IPv4 address	<p>The physical management IPv4 address</p>	<p>10.11.13.10</p>
Management Interface0 IPv4 Address Prefix	<p>IP Prefix of the network configured on the Active management IPv4</p>	<p>24</p>

Management Interface0 IPv4 (Default Gateway)	The Default Gateway IPv4 address connected to the Active management interface	10.11.13.1
Management Interface0 IPv6 address	The physical management IPv6 address	fd00:10:6b50:4150::23
Management Interface0 IPv6 Address Prefix	IP Prefix of the network configured on the Active management IPv6	64
Management Interface0 IPv6 (Default Gateway)	The Default Gateway IPv6 address connected to the Active management interface	fd00:10:6b50:4150::1
Management Interface1 IPv4 address	The physical management IPv4 address	10.12.13.10
Management Interface1 IPv4 Address Prefix	IP Prefix of the network configured on the Active management IPv4	24
Management Interface1 IPv4 (Default Gateway)	The Default Gateway IPv4 address connected to the Active management interface	10.12.13.1
Management Interface1 IPv6 address	The physical management IPv6 address	fd00:10:6b50:4160::23
Management Interface1 IPv6 Address Prefix	IP Prefix of the network configured on the Active management IPv6	64
Management Interface1 IPv6 (Default Gateway)	The Default Gateway IPv6 address connected to the Active management interface	fd00:10:6b50:4160::1

