

# Installing SBC Standalone

## **Note**

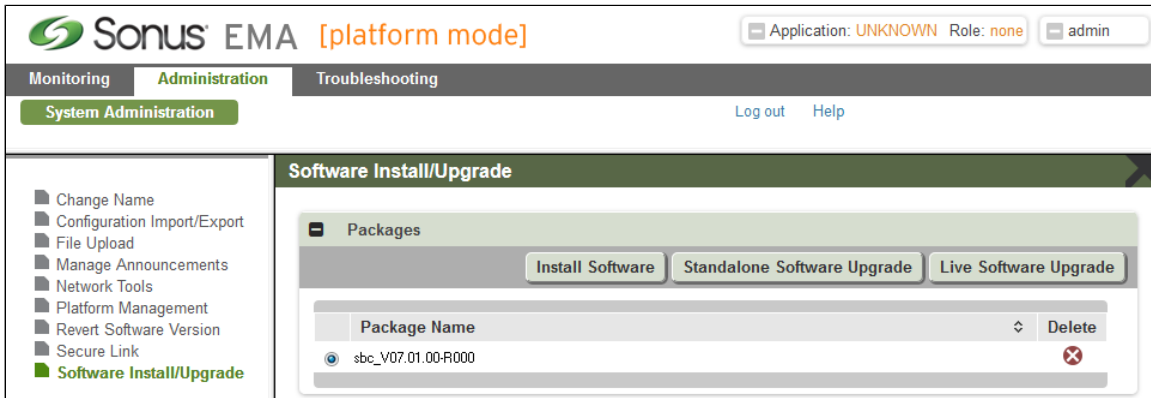
For a fresh installation, install the ".iso" file prior to executing these steps. To know the ".iso" file installation procedure, refer to:

- SBC 5000 series: [Re-Installing ConnexIP Operating System for SBC 5000 Series](#)
- SBC 7000 series: [Re-Installing ConnexIP Operating System for SBC 7000 Series](#)
- SBC 5400 series: [SBC 5400 - Re-Installing ConnexIP Operating System](#)

The following procedure describes how to install the SBC 5xx0/5400/7000 application as a standalone configuration:

1. Launch the EMA. Refer to [Logging on to EMA in Platform Mode](#) for guidance.
2. Navigate to **Administration > System Administration > Software Install/Upgrade** tab. The **Packages** screen is displayed.
3. Select the **Package Name** to install.

**Figure 1:** Selecting SBC Application Package



4. Click **Install Software**.

The Install Software section expands and displays the Install Version, Management Ports (configured via the BMC) and System Configuration details.

**Figure 2:** Install SBC Application

Sonus EMA [platform mode] Application: UNKNOWN Role: none admin

Monitoring Administration Troubleshooting

System Administration Log out Help

- Change Name
- Configuration Import/Export
- File Upload
- Manage Announcements
- Network Tools
- Platform Management
- Revert Software Version
- Secure Link
- Software Install/Upgrade**

### Software Install/Upgrade

**Packages**

Install Software Standalone Software Upgrade Live Software Upgrade

Package Name  Delete

sbc V07.01.00-R000

**Install Software**

Cancel Start Installation

You have selected to do a **new installation** of the selected SBC software package. To begin the installation, enter the configuration information below and click the start Installation button. After the installation is complete, your system may reboot.

Install Version: sbc V07.01.00-R000

**Management Ports**

Port Type	IP V4 Address	IP V4 Prefix	IP V4 Gateway	IP V6 Address	IP V6 Prefix	IP V6 Gateway
mgt0	10.54.21.35	24	10.54.21.1	fd00:10:6b50:4150::23	64	fd00:10:6b50:4150::1
mgt1	10.54.22.35	24	10.54.22.1	fd00:10:6b50:4160::23	64	fd00:10:6b50:4160::1

Verifying Software Package

**Note**

The signature file of the SBC package verifies the integrity of the package contents before proceeding with the SBC installation.

5. Enter the System Configuration details.
  - a. Select **Standalone** in the **HA Configuration** field.
  - b. Select **System Name** field and enter the system name.
  - c. Select **Local Hostname** and enter local hostname.

**Note**

For more information, refer to [System Name and Hostname Naming Conventions](#).

**Figure 3:** Installation Configuration Screen

Sonus EMA [platform mode] Application: UNKNOWN Role: none admin

Monitoring Administration Troubleshooting

System Administration Log out Help

- Change Name
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**Packages**

Install Software Standalone Software Upgrade Live Software Upgrade

Package Name  Delete

sbc\_V07.01.00-R000

**Install Software**

Cancel Start Installation

You have selected to do a **new installation** of the selected SBC software package. To begin the installation, enter the configuration information below and click the start Installation button. After the installation is complete, your system may reboot.

Install Version: sbc\_V07.01.00-R000

**Management Ports**

Port Type	IP V4 Address	IP V4 Prefix	IP V4 Gateway	IP V6 Address	IP V6 Prefix	IP V6 Gateway
mgt0	10.54.21.35	24	10.54.21.1	fd00:10:6b50:4150::23	64	fd00:10:6b50:4150::1
mgt1	10.54.22.35	24	10.54.22.1	fd00:10:6b50:4160::23	64	fd00:10:6b50:4160::1

**System Configuration**

HA Configuration  HA Pair  Standalone

System Name

Local Hostname

Server Role  Active

SBC Type  I-SBC  S-SBC  M-SBC

NTP Server IP

NTP Server Time Zone

- d. Choose **Active** option for **Server Role** to designate the Active server as the one you are configuring.
- e. For SBC hardware type of installation, choose **SBC Type** as **I-SBC**.

SBC Type	Description
I-SBC	Specifies an Integrated Signaling and Media network element (I-SBC). This is applicable for SBC on hardware environment (SBC 5000 Series, SBC 7000 Series, and SBC 5400).
S-SBC	Specifies the SBC type as Signaling. The S-SBC (Signaling SBC) is applicable for SBC on Cloud environment
M-SBC	Specifies SBC type as Media. The M-SBC (Media SBC) is applicable for SBCona cloud environment.

- f. Select **NTP Server IP** field and enter the NTP server IP address. To identify your NTP Server IP, refer to [Configuring NTP Server Settings Using SBC 7000 BMC](#).
  - g. Select **NTP Server Time Zone** field and enter the time zone.
6. Click **Start Installation**.
7. The installation process starts and displays the installation status on the **Installation Log** section.
- a. Perform pre-install checks

**Figure 4:** Pre-Install Checks

Sonus EMA [platform mode] Application: UNKNOWN Role: none admin

Monitoring Administration Troubleshooting

System Administration Log out Help

- Change Name
- Configuration Import/Export
- File Upload
- Manage Announcements
- Network Tools
- Platform Management
- Revert Software Version
- Secure Link
- Software Install/Upgrade**

### Software Install/Upgrade

#### Install Software

Status	Installation Steps
<input checked="" type="radio"/>	Perform pre-install checks
<input type="radio"/>	Extract package contents
<input type="radio"/>	Install SBX service
<input type="radio"/>	Initialize SBX service
<input type="radio"/>	Update host name
<input type="radio"/>	Reboot system

Installation Log **Auto Scroll Is On**

b. Extract package contents

**Figure 5:** Extracting Package Contents

Sonus EMA [platform mode] Application: UNKNOWN Role: none admin

Monitoring Administration Troubleshooting

System Administration Log out Help

Change Name  
 Configuration Import/Export  
 File Upload  
 Manage Announcements  
 Network Tools  
 Platform Management  
 Revert Software Version  
 Secure Link  
**Software Install/Upgrade**

### Software Install/Upgrade

**Install Software**

Status	Installation Steps
<input checked="" type="radio"/>	Perform pre-install checks
<input type="radio"/>	Extract package contents
<input type="radio"/>	Install SBX service
<input type="radio"/>	Initialize SBX service
<input type="radio"/>	Update host name
<input type="radio"/>	Reboot system

Installation Log **Auto Scroll Is On**

```

Sep 22 04:59:53 Start: Sonus sbx Installation (Initiated through applinstall- v07.01.00-R000 sh)
Sep 22 04:59:53 Currently Installed Version(s):
cnxipm 06.01.00-R000.x86_64 Fri Sep 22 03:56:08 2017
pamValidator- 06.01.00-R000.x86_64 Fri Sep 22 03:56:06 2017
bios-update 06.01.00-R000.x86_64 Fri Sep 22 03:45:38 2017
cps- 06.01.00-R000.x86_64 Fri Sep 22 03:45:29 2017
sl 06.01.00-R000.x86_64 Fri Sep 22 03:45:24 2017
bash-3.2-24.el5.x86_64 Fri Sep 22 03:45:24 2017
Sep 22 04:59:53 =====
Sep 22 04:59:53 Performing pre-install checks...
Sep 22 05:00:30 Calling checkDiskforRevert to scan disk to allow Install..p2gSbxInstallUpgradeCommand=/opt/sonus/
/applinstall- v07.01.00-R000.sh -R -c /home/common/installSBX.conf -R -q
Sep 22 05:00:31 Exiting checkDiskforRevert() and continuing with Installation on /dev/mapper/debian-root1..
Sep 22 05:00:31 Extracting package contents...
  
```

c. Install SBC service

**Figure 6:** Installing SBC Service

Sonus EMA [platform mode] Application: UNKNOWN Role: none admin

Monitoring Administration Troubleshooting

System Administration Log out Help

Change Name  
 Configuration Import/Export  
 File Upload  
 Manage Announcements  
 Network Tools  
 Platform Management  
 Revert Software Version  
 Secure Link  
**Software Install/Upgrade**

**Software Install/Upgrade**

**Install Software**

Status	Installation Steps
<input checked="" type="radio"/>	Perform pre-install checks
<input checked="" type="radio"/>	Extract package contents
<input type="radio"/>	Install SBX service
<input type="radio"/>	Initialize SBX service
<input type="radio"/>	Update host name
<input type="radio"/>	Reboot system

Installation Log **Auto Scroll Is On**

```

Sep 22 05:00:30 Calling checkDiskforRevert to scan disk to allow Install..p2gSbxInstallUpgradeCommand=/opt/sonus/
/applInstall- v07.01.00-R000.sh -R -c /home/common/installSBX.conf -R -q
Sep 22 05:00:31 Exiting checkDiskforRevert() and continuing with Installation on /dev/mapper/debian-root1..
Sep 22 05:00:31 Extracting package contents...
Sep 22 05:00:53 Current OS version [06.01.00-R000] and required OS version [06.01.00-R000] are same.
Sep 22 05:00:53 Installing sbx service...
Sep 22 05:00:53 Using configuration file /opt/sonus/cnxipm/conf/installSBX.conf...
Sep 22 05:00:54 Creating marker file /tmp/.sbxInstallUpgradeInProgress with "/opt/sonus/staging/sbxInstall.sh"...
Sep 22 05:00:54 Using Configuration file: /opt/sonus/cnxipm/conf/installSBX.conf
Sep 22 05:00:54 Using DSBC Personality: isbc
Sep 22 05:00:54 Installing sonusdb- v07.01.00-R000.x86.64.rpm from path (/opt/sonus/staging)
Preparing... #####
Updating / installing...
sonusdb- v07.01.00-R000 #####
sonusdb- v07.01.00-R000 #####
  
```

d. Initialize SBC service

**Figure 7:** Initialize SBC Service

Sonus EMA [platform mode] admin unknown V07.01.00-R000

Application: UNKNOWN Role: unassigned

Monitoring Administration Troubleshooting Log out Help

**Software Install/Upgrade**

**Install Software**

Status	Installation Steps
<input checked="" type="radio"/>	Perform pre-install checks
<input checked="" type="radio"/>	Extract package contents
<input checked="" type="radio"/>	Install SBX service
<input type="radio"/>	Initialize SBX service
<input type="radio"/>	Update host name
<input type="radio"/>	Reboot system

**Installation Log** Auto Scroll Is On

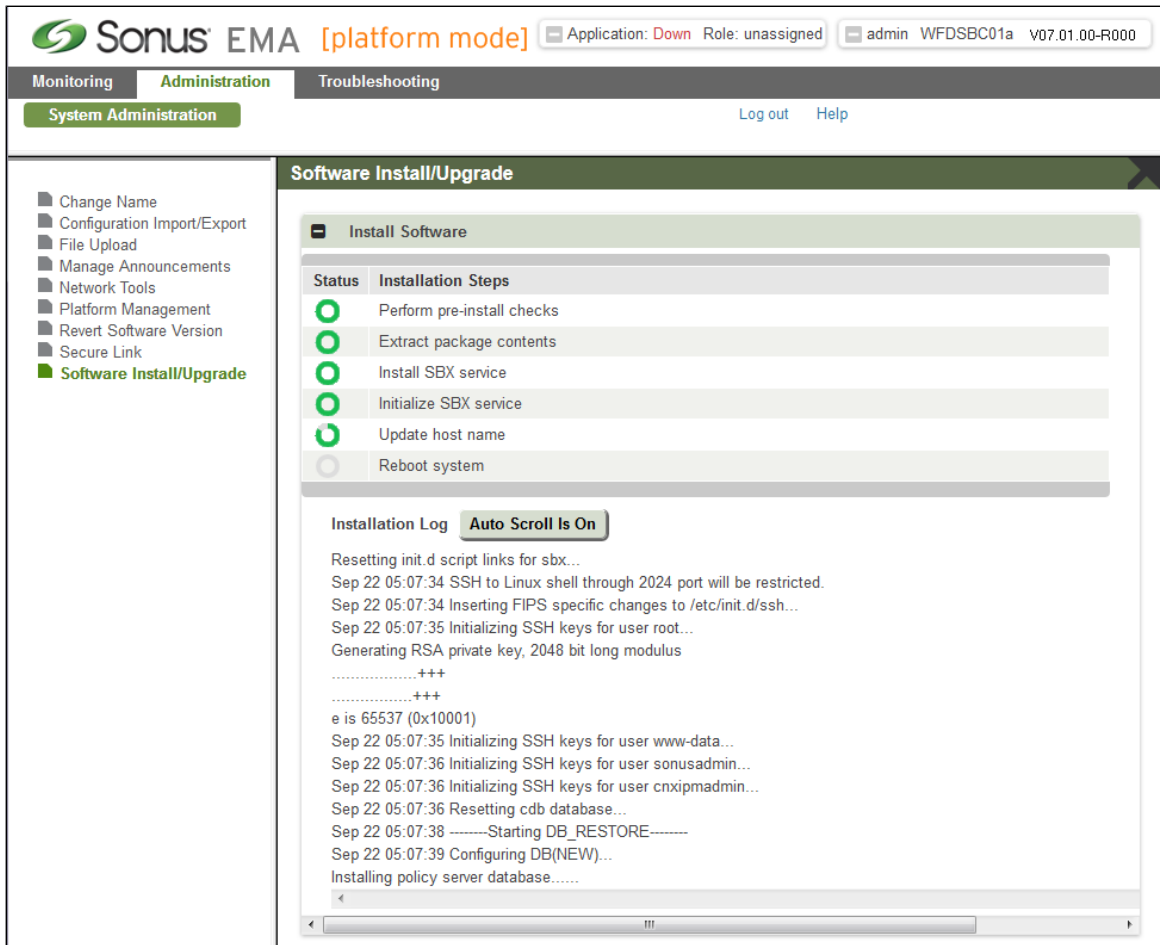
```

05:02:42,623 INFO [YinSpecLoader] Loading yinSpec: /opt/sonus/ema/sbxema/deploy/mgmtMetaSvc.war/staging/V07.01.00-R000/yinSpecs/sonusNumberingPlan.yin
05:02:42,776 INFO [LoaderUtils] Getting model repository for: [SBX5K V07.01.00-R000]
05:02:42,776 INFO [YinSpecLoader] Post Processing YinSpec
05:02:42,777 INFO [LoaderUtils] Waiting for post-processing to complete
Sep 22 05:03:32 Building sonusGen2Profiles.xml...
Sep 22 05:03:32 Building sonusGen2EventLog.xml...
Sep 22 05:03:32 Building sonusGen2Radius.xml...
Sep 22 05:03:32 Building timezone.xml...
Sep 22 05:03:32 Building sonusGen2Ntp.xml...
Sep 22 05:03:32 Building sonusGen2NtpSby.xml...
Sep 22 05:03:32 Building sonusAaa.xml...
Sep 22 05:03:32 Building sonusGen2lpm.xml...
Sep 22 05:03:32 Building SNMP-COMMUNITY_MIB.xml and updating SNMP-USER-BASED-SM-MIB.xml...
Sep 22 05:03:32 Updating the sonusOmdProfile.xml depending on HwType:ConnexIP5200...

```

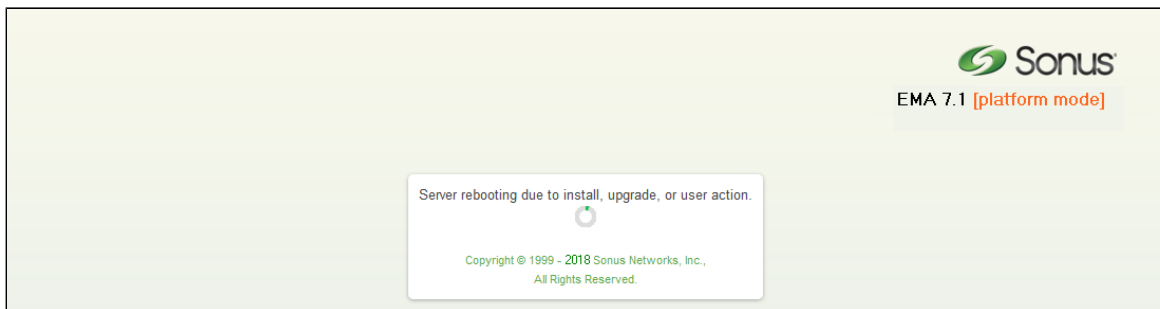
e. Update Host Name

**Figure 8:** Updating Host Name



f. Reboot the system

**Figure 9:** Rebooting the system.



8. Log on to EMA. The new SBC application version displays on the **Monitoring > Dashboard > System and Software Info**.

**Figure 10:** Displaying New SBC App Version



Sonus EMA [platform mode] Application: Running Role: active admin WFDSBC01a V07.01.00-R000 203510369

Monitoring Administration Troubleshooting

Dashboard System Status and Statistics Log out Help

**System and Software Info**

- CPU Usage
- Disk Usage
- Hardware Inventory
- Memory Usage
- Port Usage
- Sensors
- System and Software Info**
- Task Usage

**System Info** Open BMC

Uptime 0 days 0 hours 3 minutes 54 seconds  
 CE Name WFDSBC01a  
 Serial # 2035103699

**Software Versions**

**Host**

SERVER WFDSBC01a  
 BMC V03.16.00-R000  
 BIOS V02.06.00  
 OS V06.01.00-R000  
 SonusDB V07.01.00-R000  
 EMA V07.01.00-R000  
 SBC V07.01.00-R000  
 SBCType isbc  
 BuildNumber 2  
 Installedhostrole active  
 Currenthostrole active

**Interfaces**

Interface	IPV4	IPV6
mgt0 Local	10.54.21.35	fd00:10:6b50:4150::23
mgt1 Local	10.54.22.35	fd00:10:6b50:4160::23

Records 1 through 2 of 2 total

9. Verify the system status using **Administration > System Administration > Platform Management** menu.

10. From the EMA, install the SBC licenses required in order to use SBC application and its features. See [SBC Node-Locked Licenses for HW and SWE SBCs](#) for guidance.

