

Type:	Confidentiality:	Author:	RSU:	Doc #	Rev#
Service Alert	Unclassified	Tim Overstreet	ascom Ascom US Inc.	TL-000048	1
Purpose:	Date:	Product Group(s)			
Create awareness for IPBL and IPBS software compatibility	2-8-2011	IP-DECT			

IPBL and IPBS Software Compatibility Requirements

Overview

The 4.1.x software series for IPBL and IPBS is not compatible with 3.x and 2.x series SW.

The 4.1.x software series for IPBL and IPBS offers several performance and feature improvements but also has compatibility requirements for coexisting equipment (IPBL, IPBS, VoIP Gateway, IMS and handset).

Current and future shipments of IPBL and IPBS will be loaded with this newer version of software and careful preparation is required. There may be a need to update your established IP-DECT system to be compatible with the 4.1.x series.

IMPORTANT CONSIDERATIONS

Improvements in 4.1.x software series include:

- Non conformity corrections
- Encrypted and secure signaling and speech (VoIP security with SIP over TLS and SRTP)
- Centralized management of administrator accounts based of Kerberos
- Multicast messaging for high user counts who need the same message at the same time
- Positioning within large systems and multiple locations
- Easy registration
- Support of KPML method for out-of-band signaling of DTMF
- Support of central phonebook in base station

Compatibility Requirements:

- Multiple IPBL and IPBS compatibility. The 4.1.x and older SW (e.g. 3.1.x or 3.2.x) shall not be mixed in a system. All IP-DECT base stations and IP-DECT blades must be consistent throughout the system. An upgrade to the 4.1.x series is recommended. Downgrading existing equipment is also a possibility.
- VoIP gateway version 7, software v7 hf15 or later
- IMS2 version must be 2.62 or higher to comply with multicast and broadcast feature
- d41 and d62 must have 3.2.x SW or later to utilize easy registration
- d81 must have 3.0.x SW or later to utilize easy registration
- Compatible with both IPBL1-AA and IPBL1-AB hardware
- If an RFPI is moved a reset must be made on the Pari-Master
- If IP-DECT system is upgraded from 3.1.x to 4.1.x the MWI must be activated again after upgrade

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Impact

Implementation and utilization of the 4.1.x series is only successful with the mentioned compatibility requirements otherwise adverse conditions and user impacting failures will result. The process of updating may create the need for scheduled user disruption and system downtime.

Affected Products

IPBS1-A3 (IPBS)

SW Upgrade/downgrade for compatibility

IPBL1-AA (IP DECT Gateway)

SW Upgrade/downgrade for compatibility

IGWP (VoIP Gateway)

SW upgrade to V7 Hotfix 15 if upgrading IPBL / IPBS to 4.x

AWS 1322 (IMS2)

SW Upgrade to 2.62 or later to support MultiCast / Broadcast messages

DH3 (d41 handset, all models)

SW upgrade to 3.2.x to support Easy Registration

DH4 (d62 handset, all models)

SW upgrade to 3.2.x to support Easy Registration

DH5 (d81 handset, all models)

SW upgrade to 3.0.x to support Easy Registration

Resolution Procedures

In many cases system wide upgrades will be required to maintain compatibility. It is also possible to downgrade the IPBS and IPBL to be consistent with the commissioned system and plan system wide updates for a later date. The following instructions are met to supplement the *Installation and Operation Manual for the IP-DECT Base Station & IP-DECT Gateway* (software version 4.1.x):

1. SYSTEM UPGRADE FROM SOFTWARE VERSION 2.X.X TO 3.X.X OR 4.X.X


This section describes how to upgrade a system from software version 2.x.x to 3.x.x or

4.x.x. If a RFPI is moved, a rest must be made on the Pari-Master.

Note: If the IP-DECT system will be running together with the IP6000/Ascom VoIPGW version 7, the software installed must be version 7hf15 or later.

1.1. BEFORE UPGRADING

- 1 For safety, take a backup of the configuration parameters for the Master and Standby Master.
- 2 Make a note of the Master and Standby Master IP address.

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On the device configured as Master, continue with step 3 to 6 below.

- 3 Select DECT > SMS and make a note of the IMS IP address.
- 4 Select DECT > Master and make a note of the SIP proxy (registrar) IP address, found in the Gatekeeper IP Address text field.
- 5 Select DECT > Master and make a note of the alternative SIP proxy (registrar) IP address, found in the Alt. Gatekeeper IP Address text field.
- 6 Select DECT > System and make a note of the name and password for the Pari Master, found in the System Name and the Password text fields.

1.2. UPGRADING SEQUENCE

The best order is to start with the firmware and boot file upgrade of the Standby Master, then the Master, then all Radios, then do the configuration changes. This way the Radios will not be able to connect to the Master or Standby Master with incompatible firmware. The upgrading sequence is as follows:

- 1 Upgrade firmware and boot file of Standby Master, see 8.15.3 IPBS Upgrade or 8.15.4 IPBL Upgrade.
- 2 Upgrade firmware and boot file of Master, see 8.15.3 IPBS Upgrade or 8.15.4 IPBL Upgrade.
- 3 Upgrade firmware and boot file of Radios, see 8.15.3 IPBS Upgrade or 8.15.4 IPBL Upgrade.
- 4 Update configuration of Radios, see 8.15.5 Configuration After Updating the Firmware to Version 3.x.x, or 8.15.16 Configuration After Updating the Firmware to Version 4.x.x.
- 5 Update configuration of Master, see 8.15.5 Configuration After Updating the Firmware to Version 3.x.x, or 8.15.16 Configuration After Updating the Firmware to Version 4.x.x.
- 6 Update configuration of Standby Master, see 8.15.5 Configuration After Updating the Firmware to Version 3.x.x, or 8.15.16 Configuration After Updating the Firmware to Version 4.x.x.

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1.3. IPBS UPGRADE

This section describes how to upgrade the IPBS from software version 2.x.x to 3.x.x or 4.x.x.

- 1 Disable LDAP replication for all Radios except in the case of Standby Master to Master Replication. Select LDAP > Replicator and make sure that the Enable check box is not selected.
- 2 Update the firmware to 2.4.0 or later 2.x.x. See 8.17.2 Update Firmware for more information on how to update the firmware.
- 3 Reset in order to make the changes take effect, see 8.19 Reset.
- 4 Update the firmware to 3.x.x. See 8.17.2 Update Firmware for more information on how to update the firmware.
- 5 Reset in order to make the changes take effect, see 8.19 Reset.
- 6 Update the boot file to 3.x.x. The new boot file version contains a built-in webserver, so there is no need to use the Gwload tool (a tftp-style client used to repair a broken firmware) if the IPBS is unreachable through the web GUI. See 8.17.3 Update the Boot File for more information on how to update the boot file.
- 7 Reset in order to make the changes take effect, see 8.19 Reset.
- 8 To update the IPBS Web GUI, press CTRL+F5 on the keyboard or close the IPBS Web GUI and start it again in order to make the new menu appear.
- 9 Update the Firmware to 4.x.x. See 18.7.2 Update Firmware for more information on how to update the Firmware.
- 10 Reset the IPBS(s) in order to make the changes take effect, see 18.9 Reset.
- 11 Update the boot file to 4.x.x.
- 12 Reset in order to make the changes take effect, see 18.9 Reset.

1.4. IPBL UPGRADE

This section describes how to upgrade the IPBL from software version 2.x.x to 3.x.x.

- 1 Disable LDAP replication for all Radios except in the case of Standby Master to Master Replication. Select LDAP > Replicator and make sure that the Enable check box is not selected.
- 2 Update the boot file to 413. See 8.17.3 Update the Boot File for more information on how to update the boot file.
- 3 Update the firmware to 2.4.0 or later. See 8.17.2 Update Firmware for more information on how to update the firmware.
- 4 Reset in order to make the changes take effect, see 8.19 Reset.

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- 5 Update the firmware to 3.x.x. See 8.17.2 Update Firmware for more information on how to update the firmware.
- 6 Reset in order to make the changes take effect, see 8.19 Reset.
- 7 Update the boot file to 3.x.x. The new boot file version contains a built-in webserver, so there is no need to use the Gwload tool (a tftp-style client used to repair a broken firmware) if the IPBL is unreachable through the web GUI. See 8.17.3 Update the Boot File for more information on how to update the boot file.
- 8 Reset in order to make the changes take effect, see 8.19 Reset.
- 9 To update the IPBL Web GUI, press CTRL+F5 on the keyboard or close the IPBL Web GUI and start it again in order to make the new menu to appear.
- 10 Update the Firmware to 4.x.x. See 18.7.2 Update Firmware for more information on how to update the Firmware.
- 11 Reset the IPBS(s) in order to make the changes take effect, see 18.9 Reset.
- 12 Update the boot file to 4.x.x.
- 13 Reset in order to make the changes take effect, see 18.9 Reset.

1.5. CONFIGURATION AFTER UPDATING THE FIRMWARE TO VERSION 3.X.X

The following configuration settings should be changed in the Web GUI after updating the firmware to version 3.x.x.

1.6. RADIO CONFIGURATION

- 1 Select DECT > Radio and enter the name and password for the Pari Master.
- 2 Reset in order to make the changes take effect, see 8.19 Reset.

1.7. MASTER CONFIGURATION

- 1 If the Radio is activated, select DECT > Radio and enter the name and password for the Pari Master in the Name and Password text fields.
- 2 Select UNITE > SMS and enter the address to the IMS in the IP Address text field.
- 3 Select DECT > Master.
- 4 Select the Enable Pari function check box.

If SIP protocol is used, continue with step 5 to 10 below:

- 5 Enter the IP address to the SIP proxy (registrar) in the Proxy text field.
- 6 Enter the IP address to the alternative SIP proxy (registrar) in the Alt. Proxy text field.

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- 7 Select the Enbloc Dialing check box.
- 8 Select the Allow DTMF through RTP check box.
- 9 Select the Register with number check box.
- 10 To update the Web GUI, press CTRL+F5 on the keyboard or close the Web GUI and start it again in order to make the new menu to appear.
- 11 If H.323 protocol is used: Enter the address to the gatekeeper in the Gatekeeper IP Address text field.
- 12 Reset in order to make the changes take effect, see 8.19 Reset.

1.8. STANDBY MASTER CONFIGURATION

- 1 If the Radio is activated, select DECT > Radio and enter the name and password for the Pari Master in the Name and Password text fields.
- 2 Enter the address to the Master in the Primary Master IP Address text field.
- 3 To update the Web GUI, press CTRL+F5 on the keyboard or close the Web GUI and start it again in order to make the new menu to appear.
- 4 Reset in order to make the changes take effect, see 8.19 Reset.

1.9. CONFIGURATION AFTER SYSTEM UPGRADE FROM SOFTWARE VERSION 3.X.X TO 4.X.X

When upgrading a system from software version 3.x.x to 4.x.x, existing system administration accounts remain configured locally in the IPBS(s)/IPBL(s). However, it is recommended that the system administration accounts are configured centrally instead by moving them to the Kerberos server. To have the system administration accounts configured locally is a potential security risk.

Note: For information on how to configure Kerberos, see 8.1.3 Centralized Management of Administrator/Auditor Accounts Using Kerberos on page 50. When upgrading from version 3.x.x to 4.x.x, the MWI will automatically be set to Off. If the MWI was enabled prior to the upgrade: Select DECT > Suppl. Serv. and select an MWI mode in the MWI Mode drop-down list.

To move the system administration accounts to the Kerberos server

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Step 1: For each IPBS/IPBL where system administration accounts have been configured locally, do as follows:

- 1 Select General > Admin.
- 2 Go to the Additional Administrator and Auditor Accounts section.
- 3 Write down each accounts configuration data such as the user name, password (when known) and role.

Step 2: On the Kerberos server, do as follows:

- 1 Select General > Kerberos Server.
- 2 Go to the Users section and enter the configuration data for each account that was written down in step 1 above.
- 3 Click "OK".

Step 3: For each IPBS/IPBL where system administration accounts have been configured locally, do as follows to delete the local system administration accounts:

- 1 Select General > Admin.
- 2 Go to the Additional Administrator and Auditor Accounts section.
- 3 For each account row, select the Delete check box.
- 4 Click "OK".

All local system administration accounts are deleted and the Additional Administrator and the Auditor Accounts section is no longer visible. The system administration accounts are now instead configured centrally on the Kerberos server.

2. SYSTEM DOWNGRADE FROM SOFTWARE VERSION 4.X.X OR 3.X.X TO 2.X.X

If a system with 3.x.x firmware and boot file is downgraded to a 2.x.x version, the HTTP server part of the boot code is removed.

If the firmware is downgraded to version 2.x.x, the LDAP replication must be activated again.

- 1 Select LDAP > Replicator.
- 2 Select the Enable check box to activate LDAP replication.

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Reference

- TD92579GB, *Installation and Operation Manual for the IP-DECT Base Station & IP-DECT Gateway*
- RELEASE NOTES IPBS software version 4.1.24
- RELEASE NOTES IPBL software version 4.1.20

Contact Information

If you have any questions or need additional information, please contact Ascom Technical Assistance Center at 8-877-71-ASCOM, option 3.