

UNISstim Software Release 5.1 for IP Deskphones

Revision History		
Date	Revision #	Summary of Changes
7 April 2011	Original bulletin	This is the original publication

Introduction

Avaya is pleased to announce the availability of UNISstim software release 5.1 for IP Deskphones. UNISstim software release 5.1 makes available the following software versions for the following IP Deskphones:

UNISstim Software Release 5.1	
IP Deskphone	Software
2007 IP Deskphone	0621C8D
1110 IP Deskphone	0623C8D
1120E IP Deskphone	0624C8D
1140E IP Deskphone	0625C8D
1150E IP Deskphone	0627C8D
1165E IP Deskphone	0626C8D
1210 IP Deskphone	062AC8D
1220 IP Deskphone	062AC8D
1230 IP Deskphone	062AC8D

UNISstim software release 5.1 for IP Deskphones is available for download from <https://support.avaya.com/css/appmanager/css/support/Downloads/P0599>. Choose "UNISstim 5.x" from the pull-down menu and then choose "UNISstim Software Release 5.1 for IP Deskphones". This release is being provided as a no charge update to all customers. Note that UNISstim 5.1 is currently supported with CS1000, BCM, and CS2100 Call Server Releases. These software loads have not been introduced as the default loads for the IP Deskphones shipped from Avaya.

Product Advisement for customers who previously upgraded to UNISstim 5.0 using the workaround related to Zero Touch Provisioning:

For customers who previously upgraded to UNISstim 5.0 and used the recommended workaround detailed in the UNISstim 5.0 Readme Product Bulletin, related to pre-configured REG entries, this workaround needs to be removed to successfully upgrade to UNISstim 5.1. That is, customers who have pre-configured REG entries, (which includes the MAC address, the TN, and Node) within the provisioning file to enable Zero Touch for the IP Deskphones, were previously advised of a problem that could occur related to parsing of the REG entry which prevented the IP Deskphones from coming up as expected. The recommended workaround for customers upgrading to UNISstim 5.0 was to add a comma before the semi-colon of the REG entry within the provisioning file. As noted in the UNISstim 5.0 Readme Product Bulletin, this issue is now fully addressed in this UNISstim 5.1 software maintenance release, and customers who applied the workaround will need to remove the comma to successfully upgrade to this UNISstim 5.1 software release.

UNISim software release 5.1 delivers quality improvements for all IP Deskphones including software fixes for over one hundred work items, and resolution of seven customer reported cases. A previously reported Product Advisement related to the 1165E IP Deskphone locking up if invalid UserID and password for WML authentication are provided has been addressed in this UNISim 5.1 software release.

In addition, UNISim software release 5.1 for IP Deskphones delivers new feature support for a Wireless Markup Language (WML) browser for the 2007 IP Deskphone.

Feature Enhancement: Support for a Wireless Markup Language (WML) browser on 2007 IP Deskphones

To display graphics and to present an application on the entire IP Deskphone display, the IP Deskphone needs to support a WML browser. With UNISim 5.1, the 2007 IP Deskphone supports a WML browser and supports many of the features listed in the following table – see the notes column for specific limitations. WML browser support was introduced for the 1140E, 1150E, and 1165E IP Deskphones with UNISim 5.0 software release. The other IP Deskphones do not support a WML browser due to limited display size (1110, 1120E, and 1210) or due to their text based displays (1220, 1230).

The following features require a WML browser to be supported by the IP Deskphone. These supported features and capabilities can be used by application developers when creating custom applications for the IP Deskphones.

WML Browser enabled Features	Avaya-legacy 96xx/46xx	1140E, 1150E, 1165E, 2007	Customer Benefit	Note
WML browser / Display Push	Yes *	Yes	Enables presentation of Push display page / graphics, and to support the features listed below.	WML browser is supported on 1140E, 1150E, 1165E, 2007 models, but not all functionality will be available upon initial availability. * Some 46xx models do not support Display Push
- Push display page / graphic to phone	Yes	Yes	An application including information and graphics can be sent to the IP Deskphone display	Requires WML browser. Can support custom applications created for the IP Deskphones
- Enable feature keys for use within applications	Yes	Yes	The application presented to the phone user can include feature keys to make the application itself easier to use	Feature keys within custom applications can be aligned with soft keys on the IP Deskphone display.
- Click to Dial	Yes	Yes	Allows the user to click a link, or press a button within the application to automatically call an agent or specific phone number.	Extended to 1100 Series and 2007 with ANS Ris 1.2. 1100 Series and 2007 IP Deskphones supported 'Click to Dial' capability within Custom Applications created within the Graphical External Application Server. (Not user definable.)
- Support for pushing other parameters to phone	Yes	No	Enables automatic set up, including Zero touch provisioning for Avaya-legacy IP Deskphones. Allows phones to be set up remotely, important when deploying lots of phones	Used for automated phone set up for Avaya-legacy IP Deskphones. This has not been extended to the 1100 Series and 2007 IP Deskphones, which continue to use Zero Touch approach to set parameters. Limited features / parameters (example changing the language that is presented on the display) are being pushed to Avaya-legacy phones currently. Note that some of the Avaya H.323 phones do not support this feature.
- Scrolling up & down within app with USB mouse or USB keyboard	No	No / Yes	USB mouse can be used to navigate on the WML page, to select and activate an item. USB keyboard can be used to navigate and input text. The user has additional and more convenient input modes to interact with applications on the phone.	Potential future for the 1140E, 1150E, 1165E, and 2007 IP Deskphones. Avaya-legacy phones do not support USB mice or keyboard for this capability.
- Support for cascading Style Sheets	Yes	Limited	Useful in creating custom applications	On 1165E only - supports foreground and background color of the web lines.
- Support for bit-mapped icons from WML card deck	Yes	No	Useful in creating custom applications	Not currently supported on 1100 Series or 2007 IP Deskphones
- Some operational differences between heritage Avaya phones and the implementation on 1100, 1200 or 2007 IP Deskphones	No	Yes		1. When you go off-hook (or press HF key or Headset key) the WML page is hidden and the Telephony page shown. 2. Going off-hook (handset, speakerphone, or headset) hides the WML page. 3. Press the Expand key to open the WML page. 4. Pressing the Quit or Expand key or Exit softkey closes the WML page. 5. Digits entered when not in an edit/input session in the WML page still go to the WML browser and do not start dialing a call. Must exit the WML page to dial.
	N/A	Yes		6. GXAS/XAS is disabled in the phone once the PUSH or WML IP addresses are provisioned. The customer does not need to remove the AG info since once Push address is in phone it disables the GXAS and interfaces with the ANS. Note that the 1100 Series and 1200 Series IP Deskphones can register to either an ANS server or an Application Gateway server, but not both at the same time

Note that the 1100 Series and 1200 Series IP Deskphones can register to either an Avaya Notification Solution (ANS) server or an Application Gateway server, but not both at the same time. Once the ANS PUSH or WML IP addresses are provisioned in the IP Deskphone, the GXAS / XAS is disabled and the IP Deskphone will no longer communicate with the Application Gateway External Application Server.

Note the User Guide for the 2007 IP Deskphone that describes the support for WML browser capability will be available on the Support website in the next few weeks. Note that WML browser capability is not supported with Business Communication Manager.

For complete details on the functionality delivered with UNISim software release 5.1, please refer to the IP Phones Fundamentals NN43001-368 and the individual User Guides for the IP Deskphones.

IP Deskphone Compatibility

The following Software files contain UNISim software release 5.1 compatible with the following IP Deskphones:

IP Deskphone Compatibility		
PEC	Description	Software File
NTDU96xxxxxx	2007 IP Deskphone	0621C8D.bin
NTYS02xxxxxx	1110 IP Deskphone	0623C8D.bin
NTYS03xxxxxx	1120E IP Deskphone	0624C8D.bin
NTYS05xxxxxx	1140E IP Deskphone	0625C8D.bin
NTYS06xxxxxx	1150E IP Deskphone	0627C8D.bin
NTYS07xxxxxx	1165E IP Deskphone	0626C8D.bin
NTYS18xxxxxx	1210 IP Deskphone	062AC8D.bin
NTYS19xxxxxx	1220 IP Deskphone	062AC8D.bin
NTYS20xxxxxx	1230 IP Deskphone	062AC8D.bin

Call Server Compatibility and Requirements

UNISim software release 5.1 is compatible with the Avaya Call Servers listed below.

Communication Server 1000

Communication Server 1000 Compatibility and Requirements	
Call Server Release	Notes and Advisements
CS1000 R 7.5	Please see the Product Advisement above related to Zero Touch Provisioning.
CS1000 R7.0	Please see the Product Advisement above related to Zero Touch Provisioning.
CS 1000 6.0 R - IP Line 6.00.18 - SS (Linux App) 6.00.018	<p>Please see the Product Advisement above related to Zero Touch Provisioning.</p> <p>Support for DTLS is available for UNISim IP Phone Software Release 4.0 and above, with Communication Server 1000 (CS1000) Release 6.0, along with the following service updates.</p> <p>nortel-cs1000-tps-6.00.18.65-07.i386.000</p> <p>nortel-cs1000-csv-6.00.18.65-04.i386.000</p> <p>These service updates are available for download from the www.avaya.com/support website.</p>

CS 1000 5.5 J - IP Line 5.5.12 - SS 5.5.12	Please see the Product Advisement above related to Zero Touch Provisioning.
CS1000 5.00W	Please see the Product Advisement above related to Zero Touch Provisioning. The DTLS and SCR features are not supported on this platform. The 1200 Series IP Deskphones are not supported on this platform.

Survivable Remote Gateway

SRG Compatibility and Requirements	
Call Server Release	Notes and Advisements
SRG 50 R 6.0 SRG 200/400 R 1.5	Avaya recommends an upgrade to this UNISstim software release at the earliest opportunity. No SRG patches are required to support the Enhanced Software Download feature that allows the IP Deskphone software supported on the SRG50 to remain in synch with the Communication Server 1000 Main office. In addition, if the "Main" Communication Server 1000 is on release 4.5, or later, no patch is necessary on the Communication Server 1000 to upgrade the IP Deskphone. The 1150E and 1165E IP Deskphones are not supported on the SRG

Business Communication Manager

BCM Compatibility and Requirements	
Call Server Release	Notes and Advisements
BCM 450 RIs 6.0, BCM 50 RIs 6.0	UNISstim 5.1 and BCM 6.0 are supported with the GA of UNISstim 5.1 Upgrading the phone's software is dependent upon a BCM Smart Update (SU) that includes the UNISstim software. Avaya will be creating software updates for the BCM to add UNISstim 5.1 to the BCM 6.0 software load. The patches will become available over the next months. The 1150E and 1165E IP Deskphones are not supported on BCM. WML browser capability is not supported on BCM.
BCM 5.0, BCM450 R1 BCM50 R3	UNISstim 5.1 and BCM 5.0, BCM50 R3 and BCM450 R1 are not supported at this point, since they have not been verified yet. However, Avaya will be creating software updates for BCM 5.0, BCM450 R1 and BCM50 R3 to add support for UNISstim 5.1 to these BCM releases. The patches will become available over the next months.
BCM 200/400 R4.0	UNISstim 5.1 will be supported on BCM 4.0, however Avaya will not build a software update to include UNISstim 5.1 into the BCM R4.0 software.

	<p>The 1200 Series IP Deskphones, 1150E IP Deskphone, and 1165E IP Deskphone are not supported on BCM 4.0.</p> <p>WML browser capability is not supported on BCM.</p>
--	---

Communication Server 2100 Centrex IP Client Manager (CICM)

CICM Compatibility and Requirements	
Call Server Release	Notes and Advisements
CICM 11 MR2	The 1165E and 1210 IP Deskphones are not supported on CICM
CICM 10.1 MR 2	The 1165E and 1200 Series IP Deskphones are not supported on CICM

IP Deskphone Software Upgrade Methods (Communication Server Dependent)

Upgrading the IP Deskphone software in a Communication Server 1000 environment

The 2007, 1100 Series and 1200 Series IP Deskphones support remote software upgrades through both an HTTP/TFTP process and the more automated UFTP process direct from the Communication Server 1000.

Note that the 1200 Series IP Deskphones are only supported on Communication Server 1000 release 5.5 or later. Therefore the software can be upgraded by either UFTP or HTTP/TFTP.

Also note that the 1165E IP Deskphone is only supported on Communication Server 1000 release 5.0 or later. Therefore the software can be upgraded by either UFTP or HTTP/TFTP.

For information on the HTTP/TFTP software upgrade process for the Communication Server 1000, please refer to the [IP Phones Fundamentals](#), NN43001-368. For information on the UFTP software upgrade process for the Communication Server 1000, please refer to the [IP Line Fundamentals](#), NN43100-500.

Upgrading the IP Deskphone software in a Survivable Remote Gateway (SRG) environment

For information on the software upgrade process for the SRG200/400, please refer to the [Main Office Configuration Guide for SRG200/400 RIs1.5](#), 553-3001-207

For information on the software upgrade process for the SRG50, please refer to the [Main Office Configuration Guide for SRG50 RIs 2.0](#), 553-3001-207.

Upgrading the IP Deskphone software in a Business Communication Manager (BCM) environment

Upgrading the IP Deskphone's software is dependent upon a BCM system patch that includes the UNISim software. This is applicable to all BCM platforms. BCM system patches will be delivered initially as atomic patches that are individually installable. These patches will be rolled up into a monthly Smart Update (SU) which includes all atomic patch content since the previous SU.

Patches and Smart Updates are posted for partner access at the www.support.avaya.com web site under "Downloads", and search for BCM product to find the Smart Update the appropriate BCM platform.

Upgrading the IP Deskphone software in a Communication Server 2100 (CICM) environment

Depending on the MR level, the UNISlim software will either be included in the installation files or will need to be transfer to the CICM Element Manager.

If the software is included in the installation files some manual administrator configuration will still be required. If the software is not included in the installation file the administrator can transfer these software loads to the CICM Element Manager, configure the terminal's "Recommended and Minimum software levels" and the Element Manager will propagate the software to the CICM. The user will be prompted to upgrade their software at their own convenience.

For details on using the CICM Element Manager to configure the recommended software and how to upgrade the IP Deskphones, refer to the [CICM Administration and Security](#), NN10252-611.06.03 in the section titled "Downloading firmware to the CICM Element Manager".

System Compatibility and Requirements

System Compatibility and Requirements	
System	Notes and Adviselements
Avaya (formerly Nortel) Contact Recording and Quality Monitoring (CRQM) 7.0	<p>The Secure Call Recording feature in UNISlim software release 4.0 and greater interworks with Avaya (formerly Nortel) Contact Recording and Quality Monitoring release 7.0</p> <p>For additional information on Avaya CRQM solution and its support for Secure Call Recording, please refer to the CRQM 7.0 Planning, Installation and Administration Guide, NN44480-300</p>
Avaya (formerly Nortel) VPN Router (NVR) 8.00 or greater	The UNISlim VPN Client (UVC) feature in UNISlim software release 4.0 and greater interworks with Avaya (formerly Nortel) VPN Routers running release 8.00 and greater
Avaya (formerly Nortel) VPN Gateway (NVG) 8.0.1 or greater	The UNISlim VPN Client (UVC) feature in UNISlim software release 4.1 interworks with Avaya (formerly Nortel) VPN Gateways running release 8.0.1 and greater
Nortel Application Gateway 2000 6.3 and higher	<p>This software release provide support to interwork with Nortel Application Gateway 2000 (AG2000) release 6.3</p> <p>The AG2000 does not support the 1150E IP Deskphone or 1165E IP Deskphone.</p>
Secure Multimedia Controller (SMC) 1.0	This software release continues to provide support to interwork with the Secure Multimedia Controller (SMC) 2450.

Product Advisements

The following is a list of advisements associated with UNISlim software release 5.1. Some advisements remain from previous releases of software, whereas other advisements reflect newly observed or changed behavior introduced with UNISlim software release 5.1. Advisements that are new to UNISlim software release 5.1 or have changed since previous releases of UNISlim software are prefixed with "NEW".

NEW: Product Advisement for customers who previously upgraded to UNISlim 5.0 using the workaround related to Zero Touch Provisioning:

For customers who previously upgraded to UNISlim 5.0 and used the recommended workaround detailed in the UNISlim 5.0 Readme Product Bulletin, related to pre-configured REG entries, this workaround needs to be removed to successfully upgrade to UNISlim 5.1. That is, customers who have pre-configured REG entries, (which includes the MAC address, the TN, and Node) within the provisioning file to enable Zero Touch for the IP Deskphones, were previously advised of a problem that could occur related to parsing of the REG entry which prevented the IP Deskphones from coming up as expected. The recommended workaround for customers upgrading to UNISlim 5.0 was to add a comma before the semi-colon of the REG entry within the provisioning file. As noted in the UNISlim 5.0 Readme Product Bulletin, this issue is now fully addressed in this UNISlim 5.1 software maintenance release, and customers who applied the workaround will need to remove the comma to successfully upgrade to this UNISlim 5.1 software release.

NEW: Phone reboots after attempting to download some images to 2007 IP Deskphone

This issue was recently observed on the 2007 IP Deskphone and also exists in previous UNISlim software releases. Not all images are downloaded to the IP Deskphone before the phone reboots.

NEW: Auto-provisioning for Active Headset Device does not work for 1150E IP Deskphone

This issue was recently observed on the 1150E IP Deskphone and also exists in previous UNISlim software releases. This issue prevents Bluetooth headsets from being enabled in the Network Configuration menu via DHCP Auto provisioning files for the 1150E IP Deskphone. The Bluetooth headset type cannot be selected as the Active Headset Device, if the 'Enable Bluetooth' option is disabled in the local Bluetooth dialog on the 1150E IP Deskphone.

NEW: 1100 Series IP Deskphones can remain stuck in 'Locating Server' status after a Network loss event.

This issue was recently observed on the 1100 Series IP Deskphone at one customer location after a Network loss event. This issue is not easily reproducible, and a hard reboot of the IP Deskphones corrected this condition for all units at the reported customer site.

PUSH/WML not supported on the 2007 IP Deskphone when Hidden mode is enabled

The 2007 IP Deskphone does not support Push messaging including Audio Push when Hidden mode is enabled. This is documented in the NTP NN43001-368.

No speech path when switching between Bluetooth and Algo ATA

The user may experience no speech path when switching back and forth between Bluetooth and the Algo ATA during an active call.

Home page is not loaded automatically after authentication credentials are entered

If the first use of the WML browser is to load the home page and the user is prompted for authentication credentials, the home page will not be automatically displayed after successfully entering the credentials. The user must press the Home softkey to display the homepage.

Red LED does not flash on incoming call if Audio Push is being received at the same time

On the 1110 and 1200 Series IP Deskphones, if an Audio Push is active when there is an incoming call, the red Call Alerting LED will not flash to indicate there is an incoming call.

SRTP PSK issue on BCM

An issue related to Private Shared Key (PSK) exchange via SRTP and payload type 120 has been observed with BCM which can result in poor voice quality. In the scenario, when the BCM50 receives the RTP packet with payload type 120, the BCM begins to send 'Play DTMF' UNISstim messages continuously in the same stream ID as in the Open Audio stream message, and the DTMF tones are transmitted to the far-end phone. When the number of RTP packets with payload type 120 becomes too large, the call quality is degraded. The current workaround for this issue is to configure a different Payload ID for SRTP PSK, or to disable SRTP PSK. This issue is being reviewed by the BCM Design team under Work Item wi00821825.

Slight change to the contrast level on the icons on the 1100 Series Expansion Module when the Module is attached to an 1165E IP Deskphone (applies to the 1165E IP Deskphone only)

After upgrading to firmware 0626C7J on the 1165E IP Deskphone, if an 1100 Series Expansion Module is attached, the user will notice slight changes to the contrast levels on icons on the Expansion Module. The changes were necessary to improve the display quality during low contrast settings.

1110 IP Deskphone may experience a double reboot when upgrading software (applies to the 1110 IP Deskphone only)

If the 1110 IP Deskphone is upgraded (or downgraded) to (from) UNISstim software release 4.3 while Asian font files are installed in the phone, a double reboot may occur during the upgrade (or downgrade) procedure. After the second reboot, the phone will be fully operational and will maintain its selected language choice. This advisory is simply to provide notification that the upgrade (or downgrade) procedure may now be lengthened due to the double reboot.

IP Deskphone may appear locked when downloading large font files over the VPN (applies to the 1120E, 1140E, 1150E and 1165E IP Deskphones)

It has been discovered that when using the VPN feature on home based phones, that the IP Deskphone may appear locked when downloading large files (such as font files) to the IP Deskphone. This issue is due to Internet delay and the fact that the IP Deskphone's TFTP client is inefficient to transfer large files across the Internet. Unfortunately the IP Deskphone does not have a progress indication to inform the user that the download is still in progress and in fact the IP Deskphone is not locked.

Users are advised to wait should the IP Deskphone be downloading font files over the Internet. As an additional measure, one can also look to the back of the phone at the link activity LED to confirm network activity is still occurring and in fact that the phone is not locked.

A USB Hub cannot be used to simultaneously connect a mouse and a keyboard to the USB port of the 2007 IP Deskphone (applies to the 2007 IP Deskphone only)

The USB port on the 2007 IP Deskphone will not support the connection of both a mouse and a keyboard connected via a USB hub. The USB port on the 2007 IP Deskphone is restricted to supported either a USB mouse or a USB keyboard, but not both simultaneously.

A 2-step upgrade may be required to load UNISstim software release 4.3 on the 2007 IP Deskphone (applies to the 2007 IP Deskphone only)

Due to changes in the memory structure of the 2007 IP Deskphone, a 2-step upgrade may be required to load UNISstim software release 4.3 onto the 2007 IP Deskphone if the upgrade is performed with HTTP/TFTP. If the 2007 IP Deskphone is currently running UNISstim software release 3.2 (0621C6M) or greater then one will be able to upgrade using HTTP/TFTP directly to UNISstim software release 4.3. But if the 2007 IP Deskphone is running any software prior to UNISstim software release 3.2 and the upgrade is performed with TFTP, then the phone must first be upgraded to UNISstim software release 3.2 before subsequently upgrading to UNISstim software 4.3. The 2-step up upgrade is not required if the upgrade is performed from the call server using UFTP.

Minimum allowable software on the 1150E IP Deskphone with new hardware changes (applies to the new hardware 1150E IP Deskphone only)

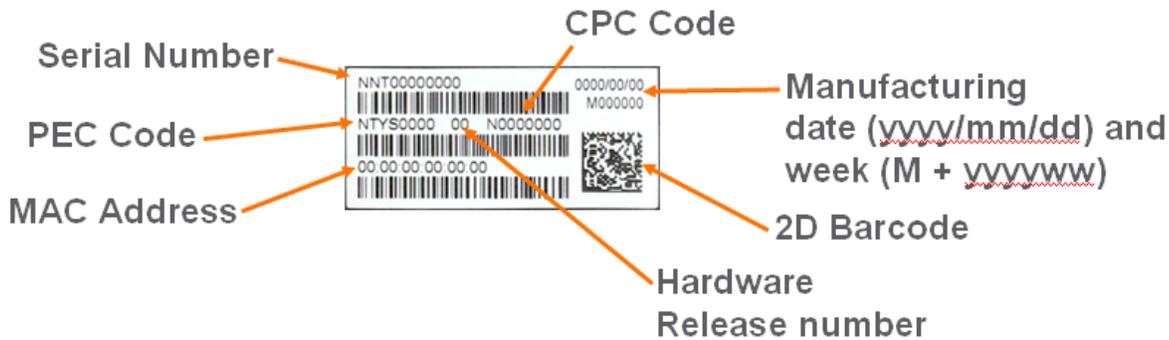
Hardware changes in past vintages of 1150E IP Deskphones impose a restriction on the minimum allowable software version on these IP Deskphones. The new hardware phone will absolutely accept an upgrade to this UNISlim software release. But the new hardware 1150E IP Deskphone will NOT accept a downgrade to any software version previous to UNISlim software release 3.4 (0627C6T). Any attempt to download a software version previous to UNISlim software release 3.4 will result in the phone responding with a denial of software downgrade response.

The minimum allowable software is dependant on the phone's PEC and hardware release number and is provided in the table below:

Minimum Allowable Software			
PEC	Hardware Release	Description	Minimum Software
NTYS06AAE6	07	1150E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISlim 3.4 (0627C6T)
NTYS06BAE6	07	1150E IP Deskphone Graphite with English keycaps (RoHS)	UNISlim 3.4 (0627C6T)
NTYS06ABE6*	01	1150E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISlim 3.4 (0627C6T)
NTYS06BBE6*	01	1150E IP Deskphone Graphite with English keycaps (RoHS)	UNISlim 3.4 (0627C6T)

* Note that these new PECs are for the Avaya-branded 1150E IP Deskphones. Note that UNISlim software release 4.2 is the minimum release of IP Deskphone software that includes Avaya branding for the graphical user interface and features that appear on the phone's display. There is not an absolute requirement to run UNISlim 4.2 or higher on the Avaya-branded hardware, but Avaya recommends an upgrade to the latest release of software for all applicable IP Deskphones and Call Servers at the earliest convenience.

The below Figure provides an explanation of where to identify the PEC and Hardware Release Number on the white product label (located on the back of the IP Deskphone).



If UFTP software download is used within the Communication Server 1000 environment, Avaya recommends that the software image for the 1150E IP Deskphone on the signaling server be upgraded minimally to UNISlim software release 3.4, if not UNISlim software release 5.1 (see Product Advisement related to Zero Touch provisioning)

Communication Server 1000 release 5.0, and greater, will interpret denial of software downgrade responses from the new hardware phones. However, Communication Server 1000 prior to release 5.0 requires patch MPLR23154 to interpret correctly the phone's denial of software downgrade responses. Failure to install the patch introduces the risk that the call server may continuously try and

downgrade the software thereby denying service to the phone. MPLR23154 is available at VO status on the Avaya ESPL website and is deployed only by contacting your Technical Support Representative

If TFTP software download is used, and the TFTP server is not upgraded to UNISstim software release 3.4 or greater, the TFTP server will continuously try and downgrade the software in the phone. The new hardware phone will prevent the downgrade resulting in the phone being denied service.

For complete details on the minimal allowable software for the new hardware changes in the 1150E IP Deskphone please refer to Clarify Bulletin 2010009988 Rev3, [Minimum IP Phone Software Requirement for IP Phone 1150E](#).

Minimum allowable software on the hardware vintages of the 1120E IP Deskphone and 1140E IP Deskphone (applies to the specific hardware releases noted for the 1120E IP Deskphone and the 1140E IP Deskphone below by PEC and Release Number)

Some past hardware changes in 1120E IP Deskphones and 1140E IP Deskphones impose a restriction on the minimum allowable software version on these phones. The new hardware phones will absolutely accept an upgrade to UNISstim software release 5.1. But the following hardware vintages of 1120E IP Deskphone and 1140E IP Deskphone will NOT accept a downgrade to any software version previous to either UNISstim software release 3.1 or UNISstim software release 3.4 respectively depending on the level of hardware changes. Any attempt to download a software version previous to minimum allowable software will result in the phone responding with a denial of software downgrade response.

The minimum allowable software is dependant on the phone's PEC and hardware Release Number and is provided in the table below.

Minimum Allowable Software			
PEC	Hardware Release	Description	Minimum Software
NTYS03ADE6	01	1120E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISstim 3.1 (0624C6J)
NTYS03BDE6	01	1120E IP Deskphone Graphite with English keycaps (RoHS)	UNISstim 3.1 (0624C6J)
NTYS03BDGS	01	1120E IP Deskphone GSA (RoHS)	UNISstim 3.1 (0624C6J)
NTYS05ACE6	50	1140E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISstim 3.1 (0625C6J)
NTYS05BCE6	50	1140E IP Deskphone Graphite with English keycaps (RoHS)	UNISstim 3.1 (0625C6J)
NTYS05BCGS	01	1140E IP Deskphone GSA (RoHS)	UNISstim 3.1 (0625C6J)
NTYS03AEE6	01	1120E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISstim 3.4 (0624C6T)
NTYS03BEE6	01	1120E IP Deskphone Graphite with English keycaps (RoHS)	UNISstim 3.4 (0624C6T)
NTYS03BEGS	01	1120E IP Deskphone GSA (RoHS)	UNISstim 3.4 (0624C6T)
NTYS05AEE6	01	1140E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISstim 3.4 (0625C6T)
NTYS05BEE6	01	1140E IP Deskphone Graphite with English keycaps (RoHS)	UNISstim 3.4 (0625C6T)
NTYS05BEGS	01	1140E IP Deskphone GSA (RoHS)	UNISstim 3.4 (0625C6T)
NTYS03AFE6 *	01	1120E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISstim 3.4 (0624C6T) *
NTYS03BFE6 *	01	1120E IP Deskphone Graphite with English keycaps (RoHS)	UNISstim 3.4 (0624C6T) *
NTYS03BFGS *	01	1120E IP Deskphone GSA (RoHS)	UNISstim 3.4 (0624C6T) *
NTYS05AFE6 *	01	1140E IP Deskphone Graphite with Icon Keycaps (RoHS)	UNISstim 3.4 (0625C6T) *
NTYS05BFE6 *	01	1140E IP Deskphone Graphite with English keycaps (RoHS)	UNISstim 3.4 (0625C6T) *
NTYS05BFGS *	01	1140E IP Deskphone GSA (RoHS)	UNISstim 3.4 (0625C6T) *

* Note that these PECs are for the Avaya-branded 1120E and 1140E IP Deskphone hardware. Note that UNISstim software release 4.2 (and later) is the minimum release of IP Deskphone software that includes Avaya branding for the graphical user interface and features that appear on the phone's display. There is not an absolute requirement to run UNISstim 4.2 or higher on the Avaya-branded hardware, but Avaya generally recommends an upgrade to the latest release of software for all applicable IP Deskphones and Call Servers at the earliest convenience.

To identify the PEC and Hardware Release Number, see the Figure presented on the previous page above which provides a diagram on the information on the white product label located on the back of the IP Deskphone.

If UFTP software download is used within the Communication Server 1000 environment, Avaya recommends that the software image for the 1120E IP Deskphone and 1140E IP Deskphone on the signaling server be upgraded to the minimum allowable software for the respective PEC and Hardware Release, or ideally to the latest available software release, UNISTim 5.1. See Product Advisement related to Zero Touch Provisioning on page one of this Product Bulletin.

Communication Server 1000 release 5.0, and greater, will interpret denial of software downgrade responses from the new hardware phones. However, Communication Server 1000 prior to release 5.0 requires patch MPLR23154 to interpret correctly the phones denial of software downgrade responses. Failure to install the patch introduces the risk that the call server may continuously try and downgrade the software thereby denying service to the phone. MPLR23154 is available at VO status on the Avaya ESPL website and is deployed only by contacting your Technical Support Representative

If TFTP software download is used, and the TFTP server is not upgraded to the minimum allowable software, or greater, the TFTP server will continuously try and downgrade the software in the phone. The new hardware phone will prevent the downgrade resulting in the phone being denied service.

In a Communication Server 1000 environment containing SRG and SRG50 branch office systems, two SRG Smart Updates (SU) exist to allow the SRG and SRG50 platforms respectively to interpret denial of software downgrade responses from the new hardware phones. Failure to install the patches introduces the risk that the call server may continuously try and downgrade the software thereby denying service to the phone.

For SRG 200 and SRG 400 release 1.5, the denial of software downgrade support is included in BCM.R400.SU.System.024 and later.

For SRG50 release 3.0, the denial of software downgrade support is included in BCM050.R300.SU.System-197 and later. This SU is not available for SRG50 release 2.0

If the above SRG patches are not installed then the "umsUpgradeAll" Main Office system command should not to be executed when the branch office sites has the new hardware 1120E IP Deskphone or the new hardware 1140E IP Deskphone and the IP Deskphone software at the Main Office precedes UNISTim software release 3.1.

For complete details on the minimal allowable software for the new hardware changes in the 1120E IP Deskphone and 1140E IP Deskphone please refer to Clarify Bulletin 2009009363 Rev2, [New Minimum Firmware Requirement for 1120E IP Deskphone and 1140E](#) and Clarify Bulletin 2009009916 Rev1, [New Product Codes for 1120E IP Deskphone and 1140E](#).

EAP-MD5 and Microsoft Windows Server 2008 (applies to all the IP Deskphones)

If access control is enabled on the IP Deskphone and MD5 is chosen as the EAP mode, realize that EAP- can be turned on in the Microsoft Windows Server 2008 NPS¹ but it is not the default setting. Please refer to Microsoft support for more details on enabling EAP-MD5. In addition, minimally, Service Pack 2 is required on the Windows Server 2008 NPS to support the IP Deskphones using MD5 access control.

PC Port resets during software upgrade (applies to the 2007 IP Deskphone only)

The PC port on the IP Deskphones temporarily resets during software upgrades and during phone resets due to configuration changes. As a result, traffic to and from the network and a PC connected to the IP Deskphone's PC port will be disrupted during these periods.

¹ In Windows Server 2008, IAS has been replaced with Network Policy Server (NPS)

Minimal firmware required on the Algo 4900 USB ATA (applies to the 1120E, 1140E, 1150E and 1165E IP Deskphones)

The Algo 4900 USB ATA must have firmware version v1.00.32v or greater before connecting the adapter to the IP Deskphone. A Windows based configuration tool to upgrade the ATA firmware version can be found at the Algo web site:

<http://www.algosolutions.com/products/usbATA/fw-download.html>

Also note that the Algo 4900 USB ATA is classified as a high power USB device and must be connected to an 1120E, 1140E and 1150E IP Deskphone through a powered USB hub. If it is connected to the phone directly, it will cause the phone to completely shut off service to the USB port.

The 1165E IP Deskphone can support the Algo 4900 USB ATA connected directly as long as the 1165E IP Deskphone is locally powered with an AC adapter. If the 1165E IP Deskphone is obtaining its power from the network via Power over Ethernet (POE) then the Algo 4900 USB ATA must be connected to through a powered USB hub

IP Deskphone's performance will be diminished during broadcast storms (applies to all the IP Deskphones)

By default, network traffic to the IP Deskphone will be accepted based on the packet's destination MAC address. The phone will therefore accept, in addition to all unicast packets sent to the phones MAC address, all broadcast and multicast packets as well. If the network environment results in a high amount of broadcast or multicast traffic, the IP Deskphone's performance may be impacted.

If "Voice 802.1Q" is enabled on the phone, the phone can then be provisioned to filter some or all of the broadcast or multicast traffic. If "VLAN Filter" is enabled, packets will be accepted by the phone based on the packet's destination MAC address as well as the packet's VLAN tag. Untagged packets and packets with a VLAN tag different from the Voice VLAN ID will be prevented from reaching the phone. This will protect the voice application from excessive traffic sent to the broadcast address or to the multicast addresses. But please be aware, if VLAN filtering is enabled on the phone, one must ensure that voice packets are tagged with the appropriate VLAN ID as they exit the network switch, else the packets will be dropped by the filter.

Change in behavior of entering an asterisk (*) to manually provision the "Provision" parameter in the network configuration menu (applies to the 2007, 1120E, 1140E and 1150E IP Deskphones)

In UNISim software prior to release 3.2 (0621C6M, 0624C6O, 0625C6O and 0627C6O on the 2007, 1120E, 1140E, and 1150E IP Deskphones respectively) the asterisk (*) key could not be used to input the dot (.) for defining an IP address in the "Provision" parameter in the network configuration menu. Since the "Provision" parameter in the network configuration menu can accept both a URL as well as an IP address the entry is a text based field causing the asterisk key to be accepted as an actual asterisk. But since this is different from other parameters that accept only an IP address where the asterisk key is used to represent the dot the inconsistent behavior of this field can be confusing.

With UNISim software release 3.2 and greater, the typing of the asterisk key in the "Provision" parameter in the network configuration menu has slightly changed. Now, if the asterisk key is pressed twice relatively quickly it will input the dot. Pressing the asterisk key once will still input the asterisk character consistent with previous behavior.

Throughput may be slow for large file transfers on conversions from GigE to 100Mbit (applies to the 1120E, 1140E, 1150E and 1165E IP Deskphones)

In networks in which a PC is connected to the IP Deskphone's PC port and the PC's NIC speed is 100Mbit but the network speed is at GigE, large file transfers to the PC can take quite a long time. This is an issue with large file transfers only. Due to the speed mismatch between the phone's two ports the buffers in the phone can overflow resulting in retransmissions.

Although the IP Deskphones support Ethernet flow control (802.3x), the support is only implemented on the phone's PC port, not on the phone's network port. Ethernet flow control is a mechanism where the IP Deskphone can request a brief "pause" from the transmitting Ethernet device if the IP Deskphone buffers are about to overflow.

Ethernet flow control cannot be implemented on the phone's network port, since it impacts the phone's voice quality. As a result, in environments where the network is GigE but the PC NIC is only 100Mbit, large file transfers from the network to the PC can take quite a long time. On the other hand, since Ethernet flow control is implemented on the phone's PC port, in environments where the PC NIC is GigE but the network is only 100Mbits, large file transfers should be well managed by the phone's Ethernet flow control mechanism.

Receiving an LLDP MED Network Policy TLV from the network infrastructure will cause the IP Deskphone to ignore any DSCP value received from the Communication Server 1000 Element Manager and the Info Block (applies to all the IP Deskphones)

Because of the precedence order, in auto-provisioning mode (i.e. the value has not been overridden manually) if the IP Deskphone receives a LLDP MED Network Policy TLV from the network infrastructure, the phone will provision its DSCP from the LLDP MED Network Policy TLV and not from the Call Server or Info Block. When the phone receives a Network Policy TLV from the network infrastructure, it sets its voice VLAN, L2 Priority and DSCP to the value specified in the VLAN ID field, L2 Priority field and DSCP Value field respectively. Thus, if the Network Policy TLV is received, any QoS values also received from the Call Server (i.e. Telephony Manager and/or Element Manager) or Info Block it will be ignored.

Special Note: The feature "DSCP provisioning precedence override" available in UNISim software release 3.3 and greater provides a work-around to this advisory.

IP Deskphone's default for Auto VLAN changed to "Enabled". And Auto VLAN now supports a No VLAN option (applies to the 2007, 1110, 1120E, 1140E, 1150E, 1210, 1220 and 1230 IP Deskphones)

In software loads prior to UNISim software release 2.2 for 2007, 1100 Series and 1200 Series IP Deskphones, one had to manually provision whether the phone was to be installed in an 802.1Q VLAN environment or not. The default configuration for the phone was assuming that the phone was not being deployed into an environment supporting a Voice VLAN. The default source for VLAN assignment was "no VLAN".

For the phones to be deployed into a voice VLAN environment, the phone had to be manually provisioned with either a Voice VLAN ID, or manually provisioned to accept and Auto VLAN assignment.

With UNISim software commencing with release 2.2 and continuing with present UNISim software the default configuration for the phone now has Auto VLAN assignment via DHCP enabled. But realizing that not all phones will be deployed in an 802.1Q VLAN environment, the Auto VLAN assignment support has also been updated to support both an 802.1Q VLAN environment and an environment without 802.1Q VLANs.

With Auto VLAN enabled, if VLAN information is provided within the DHCP option type VLAN-A, the phone will use the VLAN information to provision a voice VLAN. However, if no VLAN-A option type is provided by DHCP, the phone will assume that no VLAN is to be provisioned.

Although the default configuration for voice VLAN has changed, the new default configuration will not be applied to field upgrades. A limitation of the new functionality is that it could only apply to new phones being shipped from the factory with UNISim software release 2.2 or greater. The default configuration of "Auto" will not be applied to field upgrades. Upgrading software does not change any pre-established values already in the phones.

But as mentioned above, to allow phones already deployed in the field to change the source of their VLAN information, with UNISim software release 3.2 a new parameter called "vvsources" has been added to the Info Block to allow VLAN source to be auto-provisioned.

Important Note: While these changes provide greater flexibility, the change might impact the deployment of new phones into an existing deployment.

Manually provisioned link speed and duplex mode restored to “Auto” after software upgrade (applies to the 2007, 1120E, 1140E and 1150E IP Deskphones)

In UNISlim software release 1.3 (0621C3N, 0623C3F, 0624C3F, 0625C3F and 0627C3F for 2007, 1110, 1120E, 1140E and 1150E IP Deskphones respectively) greater low level network control available through the phones configuration menus was introduced. The greater control included allowing the link speed and the duplex mode on the IP Deskphones to be provisioned independently for both the network port and the PC port

By delivering this greater network control, the software unfortunately had to reset link speed and duplex mode back to “Auto” after an upgrade. Regrettably, preservation of the forced manual override could not be maintained during the upgrade.

What this means, is that if the IP Deskphone is running software prior to UNISlim software release 1.3 and if the link speed was manually provisioned to force the link to 10Mbit Full Duplex or 100MBit Full Duplex, after upgrading the software to UNISlim software release 1.3 or greater (including the current UNISlim software), the link speed and duplex mode is reset to “Auto” representing Auto-negotiation. With the phone now configured for Auto-negotiation a duplex mode mis-match will occur if the other end of the link is still provisioned to force the link to 10Mbit Full Duplex or 100MBit Full Duplex.

But, since UNISlim software release 3.1 for IP Deskphones, the means to provision the network port speed and the network port duplex mode has been available in the Info-Block. If a duplex mis-match occurs as a result of the software upgrade, the speed and duplex mode can be forced, by provisioning them via the Info Block. This is possible because the auto-negotiation will pick the correct speed but the wrong duplex mode. Since the speed is correct, but the duplex mode is wrong, transmission can occur, albeit of poor quality. The duplex mismatch will impact the time taken for the phone to receive the Info Block, but re-transmission mechanisms built into the transmission protocols should allow the Info Block to eventually be received by the phone thus correcting the resetting of link speed and duplex mode to “Auto”.

Proportional spacing may not be optimal (applies to the 2007, 1110, 1120E, 1140E, 1150E and 1210 IP Deskphones)

The 2007, 1110, 1120E, 1140E, 1150E and 1210 IP Deskphones support graphical fonts. The supported fonts include hinting – or ‘intelligence’ – to the font outline, making the font more readable by preventing the letters in the font from becoming distorted and difficult to identify. But in some rare instances, the hinting may impact the proportional spacing resulting in characters appearing too close or too far apart.

Some models of Plantronics Bluetooth headset may unexpectedly become unpaired (applies to the 1140E, 1150E and 1165E IP Deskphones)

An issue was uncovered with certain Plantronics Bluetooth headsets (including the formerly validated Plantronics Voyager 510/510S) in which the headset may unexpectedly become unpaired. If the unpair occurs during an active call, all audio will be lost to and from the headset. In such a situation the call will remain active and the user is recommended to switch to handset or handsfree.

Due to the severity of this issue, Avaya does not recommend the use of the Plantronics Voyager 510/510S headset.

2-step upgrade may be required (applies to the 1120E and 1140E IP Deskphones)

One important note when upgrading the 1120E IP Deskphone and 1140E IP Deskphone to this software release from any load previous to 0624C1B or 0625C1B respectively is that a 2-step upgrade **will** be required. The 1120E IP Deskphone and 1140E cannot be upgraded directly to the newly released software if they are currently running software previous to 0624C1B and 0625C1B respectively. Instead, the phones must first be upgraded to 0624C1B and 0625C1B or newer (recommend 0624C3G and 0625C3G). Once the phones are running at least 0624C1B and 0625C1B software, they will accept being upgraded to UNISlim software release 5.0 respectively.

2-step upgrade may be required to load Asian fonts (applies to the 2007 IP Deskphone only)

Adding Asian languages to a 2007 IP Deskphone running UNISlim software release 1.3 (0621C3N) or earlier requires a 2 step process since the configuration file format has changed to support the new font downloads.

- 1) One must first upgrade the 2007 IP Deskphone software to using TFTP with the former configuration files ("BasicConfig" folder) – or upgrade the software from the call server.
- 2) Once the 2007 IP Deskphone is running the new software one must update the TFTP server to the new configuration files ("AsianConfig" folder) to download the Asian font files.

Running SRTP PSK with Communication Server 1000 release 5.0 requires a patch (applies to the 2007 and 1100 Series IP Deskphones)

In association with Communication Server 1000 release 5.0, UNISlim software since release 2.0 delivered media stream protection using SRTP UNISlim Keys (USK). However, running SRTP using PreShared Keys (PSK) is still a valid option in the IP Deskphones. But, if one wishes to run SRTP PSK with Communication Server release 5.0, patch MPLR24632 is required on the Communication Server 1000². The Communication Server 1000 patch is located in the Meridian PEP library at the <http://support.avaya.com/espl> web site.

Current release of SRTP PSK is not backward compatible with older version of SRTP PSK (applies to the 2007, 1110, 1120E, 1140E and 1150E IP Deskphones)

As stated above, running SRTP using PreShared Keys (PSK) is still a valid option in the IP Deskphones. But one important note when upgrading the IP Deskphones to the current releases of software is to realize that the current releases of SRTP PSK is not compatible with older versions of SRTP PSK. The minimum software releases for which the current release of SRTP PSK is backward compatible is UNISlim software release 1.3 (0621C3N, 0623C3G, 0624C3G, 0625C3G and 0627C3G for the 2007, 1110, 1120E, 1140E and 1150E IP Deskphone respectively).

Backlight Interaction with USB devices (applies to the 2007, 1120E, 1140E and 1150E IP Deskphones)

Some USB devices (i.e. Mice or Keyboards) send regular coordinate update messages to the phone even when the device is not being used. This can cause the sleep mode for the backlight to not be properly invoked.

Certain USB mice do not work with the 2007 IP Deskphone (applies to the 2007 IP Deskphone only)

It has been discovered that certain USB Mice do not work with the 2007 IP Deskphone. If the mouse does not transmit information in the "Production", "Vendor" and "Manufacturing" fields of the USB communication exchange, the mouse will not be recognized by the 2007 IP Deskphone. Note that failure to send the above mentioned information is in violation of the USB communication exchange standard. Most leading brands of mice do send the required information.

Contrast adjustments: Local & TPS contrast adjustments are not synchronized (applies to the 1110, 1120E, 1140E and 1150E IP Deskphones)

The 1100 Series IP Deskphones' graphical display contrast control can be adjusted either locally (on the phone) or through the call server (TPS) control. The Communication Server 1000 does not yet synchronize its contrast setting with the local control. This means if the local control is used exclusively, then whenever the phone has a power cycle, the contrast setting provided by the Communication Server 1000 is restored and the user may need to adjust contrast again.

The local contrast control on the 1110, 1120E, 1140E and 1150E IP Deskphones is accessed by a "double press" of the Services key and selecting "1. Preferences", then "1. Display Settings" in the menu. The contrast control from the Communication Server is accessed with a "single press" of the Services key, then selecting "Telephone Options", then "Contrast Adjustment".

² The patch is not required on Communication Server 1000 Release 5.5

Volume adjustments are not persistent across phone resets (applies to all the IP Deskphones)

Even though the speech volume and ringer volume is controlled by the IP Deskphone, the user selected preferences are stored by the Communication Server 1000. Prior to release 5.0 of the Communication Server 1000, the server did not save the user selected preferences across a phone reboot. Thus, if the phone rebooted, for whatever reason, the speech volume and ringer volume would be reset to their default values. Upgrading to release 5.0 or greater of the Communication Server 1000 corrects this issue.

Power disruption during software upgrade will corrupt the upgrade (applies to all the IP Deskphones)

During a software upgrade, if a power disruption is experienced by the phone, the software upgrade will fail. In some instances a power disruption during an upgrade may also corrupt the existing software on the phone. If this corruption should occur, the phone will fail over into its boot code known as "BootC". BootC will automatically try to restore the phone's software from the image on a call server. But for the 2007, the 1100 Series and the 1200 Series IP Deskphones, if the phone's software was obtained from a TFTP server instead, in order to restore, or upgrade, the software from BootC a manual TFTP download from BootC must be performed. The Manual TFTP Download from BootC Procedure is documented in the [IP Phones Fundamentals NN43001-368](#). **Regardless, caution should be exercised to avoid power disruptions during software upgrades.**

References and Related Documents

Previous Product Bulletins and Readme Files for UNISlim Software Releases including

Product Bulletin – Readme file for UNISlim 5.0 Software Release for IP Deskphones

Product Bulletin – Readme File for UNISlim 4.3 Software Release for IP Deskphones

Product Bulletin – Readme File for UNISlim 4.2 Software Release for IP Deskphones

Product Bulletin P-2010-0016-Global, UNISlim Software Release 4.1 for IP Deskphones

Product Bulletin P-2009-0143-Global, UNISlim Software Release 4.0 for IP Phones.

IP Phones Fundamentals, NN43001-368

IP Line Fundamentals, NN43100-500

Individual IP Deskphone User Guides for CS1000

CRQM 7.0 Planning, Installation and Administration Guide, NN44480-300

Product Bulletin P-2006-0131-Global, SMC 2450

About Avaya

Avaya is a global leader in enterprise communications systems. The company provides unified communications, contact centers, and related services directly and through its channel partners to leading businesses and organizations around the world. Enterprises of all sizes depend on Avaya for state-of-the-art communications that improve efficiency, collaboration, customer service and competitiveness. For more information please visit www.avaya.com.



INTELLIGENT COMMUNICATIONS

© 2010 Avaya Inc. All Rights Reserved.

Avaya and the Avaya Logo are trademarks of Avaya Inc. and are registered in the United States and other countries.

All trademarks identified by ®, TM or SM are registered marks, trademarks, and service marks, respectively, of Avaya Inc.

All other trademarks are the property of their respective owners. Avaya may also have trademark rights in other terms used herein.

References to Avaya include the Nortel Enterprise business, which was acquired as of December 18, 2009.

02/10