



## **Avaya 1692 IP Conference Phone H.323 Software R1.3.0 (GA Release) Readme**

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Contents: Readme for the Avaya 1692 IP Conference Phone H.323 Software Release 1.3.0.

This file describes the contents of the **May 16, 2011 Generally Available (GA)** software distribution package.

### **Product Description:**

- The Avaya 1692 IP Conference Phone is a H.323 based telephone that delivers an extensive set of Avaya Aura® features directly to small, midsize and large conference rooms.
- The 1692 is a full duplex audio speakerphone capable of providing 360 degree coverage and up to 12-foot microphone pickup range. Automatic Gain Control intelligently adjusts microphone sensitivity based on where participants are seated in the conference room, making conversations clearer for all participants.
- RF Hardening technology resists interference from mobile phones and other wireless devices
- Room Coverage: Up to 20 x 20 feet (without extension microphones) or Up to 20 x 30 feet (with two optional extension microphones)
- The Avaya 1692 IP Conference Phone features
  - a high resolution backlit graphical display (255 x 128 pixels) which enables robust call information and multi-language support
  - Three Context-Sensitive Soft Keys to give access to common telephony features (Automatically labeled from the system).
  - Five Fixed Feature & Navigation Keys On/Off Hook, Redial, Mute and Volume Up & Down
  - Supports three call appearances.
  - Five Menu and Navigation keys
  - 12-key telephone keypad
  - Single 10/100 Base T Ethernet connection (Full Duplex Ethernet connectivity with Auto-negotiation, 802.3 Flow Control, and VLAN support)
- Note that the exact telephony features available to the 1692 user are dependent on how the system administrator configures the endpoint and server.

## **Avaya 1692 IP Conference Phone H.323 Software R1.3.0 - New features/functionality introduced**

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### **Administrative related capabilities:**

- BACKLIGHT On/Off support – configurable option to enable the backlight to always be on or turned off after a period of inactivity (BACKLIGHT off inactivity default is 60 minutes)
- DHCP increased packet size support – increases maximum receipt of DHCP packet size to 1000 bytes (Option 57 of DHCP-DISCOVER packet will remain 590 bytes)
- FILESRVTYPE support through Sight Specific Option Number (SSON) - specifies the File Server type to use for downloading of images and configuration files (FILESRVTYPE default is HTTP)

- Group Identifier (GroupID) support – system value that can be used across 1692 IP Conference Phones deployed, but which require different administered settings.
- HTTPDIR/TLS DIR/TFTPDIR support - ability to fetch 1692 localization files along with other corresponding files part of the release package.
- HTTPPORT/TLS PORT – allows value range of “80” to “65535” configuration through either DHCP-SSON or settings file (HTTPPORT default value is 80/TLS PORT default value is 411)
- SNMP-MIB support for newly added features/variables (e.g. endptBAKLIGHTOFF, endptGARPSTAT, endptGROUP)

IP network related capabilities:

- GARPSTAT support through 46xxsettings.txt or SSON – controls the Address Resolution Protocol (ARP) versus Gratuitous ARP (GARP) usage of phone for duplicate IP detection (GARPSTAT default value is to use ARP)
- IP Conflict detection
- Subnet Conflict detection

Security related capabilities:

- Avaya Call Processing (ACP) support - support a 13-digit extension and password on the Login Screen.

User Interface capabilities:

- Single character deletion when programming parameters through Local Procedure static values.

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## **Problems Fixed in Avaya 1692 IP Conference Phone H.323 Software R1.3.0**

- Language Unicode script code reporting to Avaya Aura® Communication Manager® - The 1692 does not report the languages it supports, properly to CM
- Improvements have been made in the 1692 boot sequence, specifically "initializing" errors and the ability to get past errors in DHCP and statically addressed configuration (e.g. DHCP conflict under 802.1x/LLDP; error when loading mac.cfg;).
- Multiple HTTPSRVR list support (Corrected 1692 behavior which previously always took the last server in HTTPSRVR list).
- The 1692 now accept the VLANTEST parameter via DHCP (VLANTEST was previously only configured through the local '\* to program' menu).

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## **Known issues in Avaya 1692 IP Conference Phone H.323 Software R1.3.0**

- The 1692 does not reboot via CM reset ip-stations command
- The 1692 does not attempt to contact any of the next DNS Servers in the list when the first DNS server responds back with "no such name" message (Note that this feature is working as per the DNS standard specification, however the "no such name" response message may lead a user to believe the 1692 has an error).
- The 1692 does not support Avaya CM Terminal Translation Initialization (TTI)/Unnamed registration. The 1692 will attempt to reregister, drops call and unregister with TTI enabled.
- The 1692 displays "enter extension screen" if doing "Mute ADDR#" sequence after authenticating the phone with a different 802.1x user id and password.
- A feature button administered while the 1692 is logged off may be displayed as {Null} when the telephone is logged back in.
- The 1692 does not currently support the Avaya CM load balancing feature.

## Avaya 1692 IP Conference Phone H.323 Software R1.3.0 - Release package contents

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For information on using the 1692 IP Conference Phone, see the user and quick reference guides. All documents are available at <http://support.avaya.com>.

The release package contains all the files necessary to upgrade the Avaya 1692 IP Conference Phones H.323 Software Release 1.3.0. The following files are included in the release package:

- **1692\_000130.bin** (APP. file)
- **bootrom.ld** (Boot file)
- **1692upgrade.txt** (Avaya upgrade script file)
- **00000000000000000000.cfg** (XML file required for BootServer Process)
- **sip\_backup.cfg** (Required for TLS and Localization)
- **phone1\_vcvr.cfg** (Required for TLS and Localization)
- **"1692Localization"** folder containing all the supported language folders in it.
  - The **"1692Localization"** folder should contain the following supported language folders along with corresponding **"1692-dictionary.xml"** files:
    - French\_Canada
    - French\_France
    - German
    - Italian
    - Spanish
    - Chinese
    - Japanese
    - Portuguese
    - Russian
- System specific parameters should be entered into the **46xxsettings.txt** file. An example **46xxsettings.txt** file is available for separate download at <http://support.avaya.com>
- Note that the '**sip\_backup.cfg**' and '**phone-vcvr.cfg**' files are required for TLS and Localization with the 1692 H.323 offering. These files must be present with every upgrade package.
- The upgrade procedure strictly requires that all the files in every release need to be placed in the file server folder.
- Note that the 1692 Software Package distribution is not currently supported with the Avaya Aura® Utility Server for CM R6.0.
- Note that the R1.3.0 download package is only being provided in ZIP format

## Avaya 1692 IP Conference Phone H.323 Software R1.3.0

### - Procedures & Information

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Customers upgrading from Controlled Introduction R0.99 (Load 217), R1.0, R1.1, or R1.2 should follow the upgrade Instructions provided in the “**Avaya 1692 IP Conference Telephone Quick Start Guide for Installation, Configuration and Software Upgrade**” document number 16-603718.

- The 1692 IP Conference Phone Software consists of two parts (Upgrade and downgrade facility for both the images are available):
  - Application image
  - BootROM image
- Bootserver menu and the entire boot process have been demarcated from application load by changing the font size.
- 1692 supports four types of file servers (FTP, TFTP, HTTP, HTTPS). The 1692 default file server protocol setting beginning with R1.1 and later is HTTP. Previous to RIs 1.1, the default was FTP and required manual intervention (selecting from ‘\* to program’ menu during boot-up) to modify the setting to a particular file server needed.
- The Avaya upgrade script file name is “**1692upgrade.txt**”.
- The Bootserver process also expects “**000000000000.cfg**” XML file to be available in the file server directory.
- Correspondingly to the APPNAME (**1692\_000xxx.bin**) given in the “**1692upgrade.txt**” file the same application name needs to be updated against **APP\_FILE\_PATH** field of the ‘**000000000000.cfg**’ file.
- And **CONFIG\_FILES** field into ‘000000000000.cfg’ should contain **phone1\_vcvr.cfg**, **sip\_backup.cfg** entries.
- Also **phone1\_vcvr.cfg** & **sip\_backup.cfg** should be present in the File server directory.
- All the Language ‘**1692-Dictionary.xml**’ file containing folder should be placed in the File server.
- Make sure the local file server has “**1692Localization**” folder without any other folder structure within the default file server path.
- Localization support for ten languages (German, French\_Canada, French\_France, Spanish, Italian, Japanese, Portuguese, Russian and Simplified Chinese) inclusive of the English default.
- In script file please mention “**SET SYSLANG German**” to select German locale.
- For **French** Language it needs to be mentioned as “**SET SYSLANG French\_Canada**” or “**SET SYSLANG French\_France**”
- SSON default value has been changed from 176 to 242.
- GOTO Usage. Example: The settings file format is noted below.
 

```
SET MCIPADD xxx.xxx.xxx.xxx
GOTO test1
# test1
SET OPSTAT 111
GOTO END

# test1
SET SYSLANG Spanish
GOTO END
# END
```
- IPV6 is not supported. 1692 IP Conference Phones support only IPv4 addressing format, and will ignore the addresses in IPv6 format. For example, we have the following in DHCP – **MCIPADD=xxx.xxx.xxx.xxx.xxx,zzz.zzz.zzz.zzz** then, The phone will ignore the IP address **xxx.xxx.xxx.xxx.xxx** and process **zzz.zzz.zzz.zzz** only.

## **Avaya Aura® Communication Manager® (CM) Compatibility:**

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- Although the 1692 IP Conference Phones are supported on Communication Manager 4.0 and higher, Avaya recommends using the latest Aura® Communication Manager® (CM) release with the 1692 IP Conference Phone. See the “Communication Manager Software & Firmware Compatibility Matrix” at <http://support.avaya.com> for the supported software/firmware versions of the Media Server, Media Gateway, and circuit packs.
  - CM 4.0 and above is required to support of the following features:
    - Setting Codecs G.711, G.722
    - SRTP
    - Feature buttons on a softkey
- 1692 supports only AES for SRTP (the 1692 does not support signaling encryption).
- For more details refer to the H.323 configuration guide in the CM Administration Guide.
- Note that the 1692 Software Package distribution is not currently supported with the Avaya Aura® Utility Server for CM R6.0.

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