AASTRA

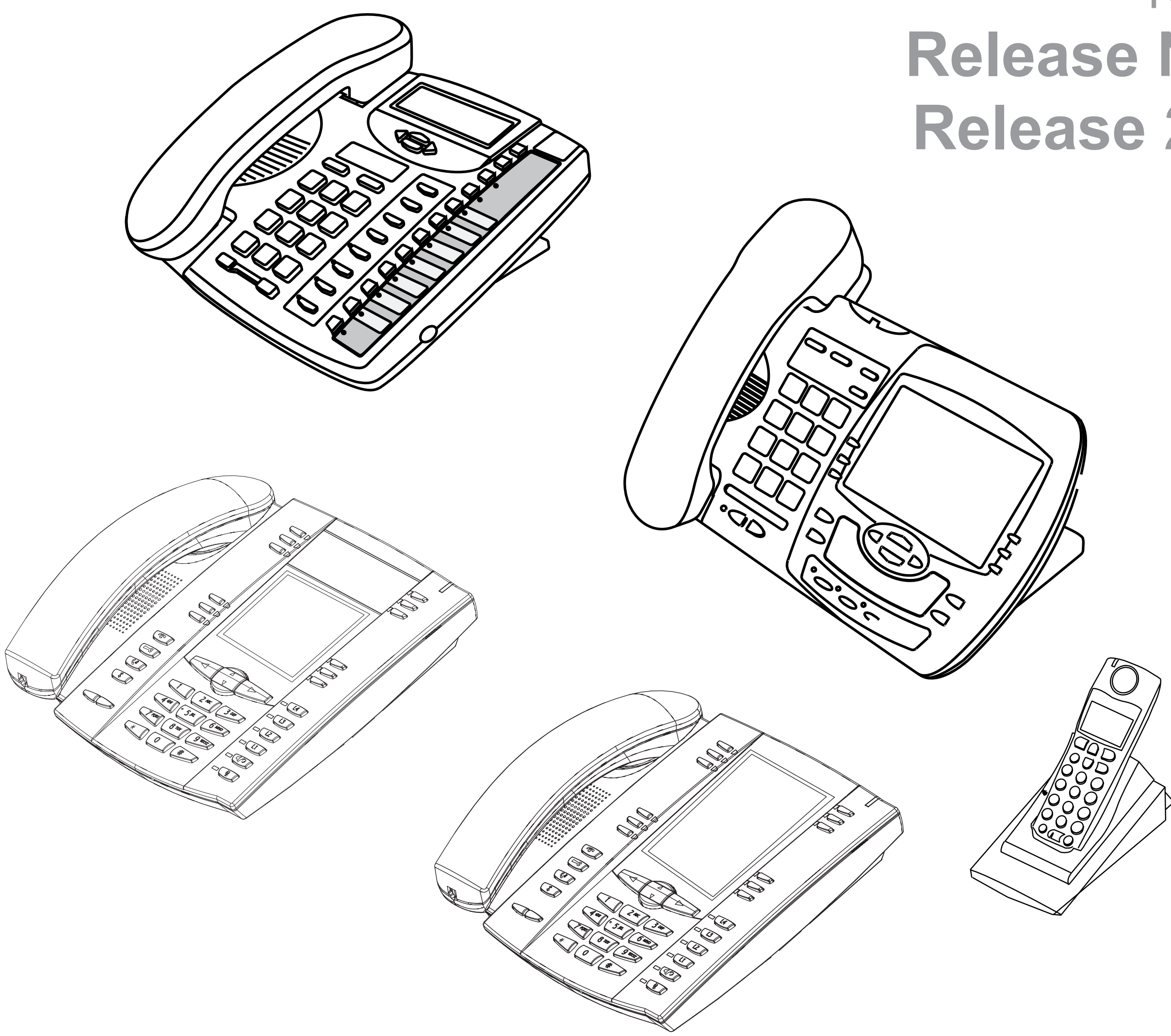
MODEL

9143i, 9480i, 9480i CT and 675xi Series Phones

SIP IP PHONE

RN-001029-03
Rev 01

Release Note
Release 2.4.1



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SIP IP Phone Models 9143i, 9480i, 9480i CT, and 675xi Series Phones Release Note 2.4.1

About this Document

This Release Note 2.4.1 provides issues resolved since the release of the 2.4 software for the 9143i, 9480i, and 9480i CT SIP IP Phones and the 675xi Series SIP IP Phones (6751i, 6753i, 6755i, 6757i, 6757i CT), previously the 5xi Series.

For more detailed information about features associated with each phone, and for information on how to use the phones, see your model-specific SIP IP Phone Installation Guide and the SIP IP Phone User Guide. For detailed information about more advanced features, see the ***SIP IP Phone Administrator Guide***.

Topics in this release note include:

- General Information
(release content, hardware supported, bootloader requirements)
- New Features in Release 2.4.1
- Issues Resolved in Release 2.4.1
- Contacting Aastra Telecom Support

General Information

Release Content Information

This document provides release content information on the Aastra 9143i, 9480i, and 9480i CT SIP IP Phone firmware and the 675xi Series SIP IP Phone firmware.

Model	Release Name	Release Version	Release Filename	Release Date
6751i	Generic SIP	2.4.1.37	FC-001126-04-REV01	December 2008
6753i	Generic SIP	2.4.1.37	FC-001086-08-REV01	December 2008
6755i	Generic SIP	2.4.1.37	FC-001087-06-REV01	December 2008
6757i	Generic SIP	2.4.1.37	FC-001088-06-REV01	December 2008
6757i CT	Generic SIP	2.4.1.37	FC-001089-06-REV01	December 2008
9143i	Generic SIP	2.4.1.37	FC-001092-04-REV01	December 2008
9480i	Generic SIP	2.4.1.37	FC-001097-04-REV01	December 2008
9480i CT	Generic SIP	2.4.1.37	FC-001101-04-REV01	December 2008

Hardware Supported

This release of firmware is compatible with the following Aastra IP portfolio products:

- 6751i
- 6753i
- 6755i
- 6757i
- 6757i CT
- 9143i
- 9480i
- 9480i CT

Bootloader Requirements

This release of firmware is compatible with the following Aastra IP portfolio product bootloader versions:

- 6751i - Bootloader 2.1.0.2088 or higher
- 6753i - Bootloader 2.0.1.1055 or higher
- 6755i - Bootloader 2.0.1.1055 or higher
- 6757i - Bootloader 2.0.1.1055 or higher
- 6757i CT - Bootloader 2.0.1.1055 or higher
- 9143i - Bootloader 2.2.0.166 or higher
- 9480i - Bootloader 2.2.0.166 or higher
- 9480i CT - Bootloader 2.2.0.166 or higher

Before you Upgrade

Please Read Before Upgrading Your Phone

If you have a firmware version on your phone prior to 2.3, please read the following IMPORTANT information before upgrading the phones:

- **LLDP is enabled by default.**
  If LLDP is enabled on your network, the phones may come up with different network settings. For more information about LLDP, see the ***Aastra SIP IP Phone Administrator Guide***.
- **Support for DHCP Options 159 and 160.**
  If the DHCP server supplies Options 159 and 160, the phones will attempt to contact the configuration server given in these options. For more information about Options 159 and 160, see the ***Aastra SIP IP Phone Administrator Guide***.
- **HTTPS validation.**
  If you are using HTTPS and the certificates are not valid or are not signed by Verisign, Thawte, or GeoTrust, the phones fail to download configuration files. For more information about HTTPS validation, see the ***Aastra SIP IP Phone Administrator Guide***.
- **Watchdog task feature.**
  If the phone detects a failure (for example, a crash), the phone automatically reboots. For more information about the Watchdog feature, see the ***Aastra SIP IP Phone Administrator Guide***.

Note: If you factory default a phone with Release 2.3 and above software, when the phone reboots, it attempts to connect to *rcs.aastra.com*. There is no personal information transmitted from the phone and the phone continues to boot up as normal.

New Features in Release 2.4.1

Description

This section provides a new feature in SIP IP Phone Release 2.4.1. This new feature applies to all of the Aastra IP Phones, unless specifically stated otherwise. The feature also specifies whether it affects the Administrator, the User, or both.

Feature	Description
SIP Feature	
Configurable Support for Compact SIP Header (For Administrators)	Release 2.4.1 provides a new feature that allows an Administrator to shorten the length of a SIP packet by using the compact form. This feature is in accordance with Compact SIP Headers defined in RFC 3261.
User Interface Feature	
Support for Additional Codec Types and Codec Priority Selection (For Administrators)	Release 2.4.1 includes support for a additional code types. Now using the Aastra Web UI or the configuration files, an Administrator can select from up to 14 codecs for the phones AND customize a codec preference list of up to 10 codecs. Silence suppression can still be enable or disabled as required.

SIP Feature

Configurable Support for Compact SIP Header

Release 2.4.1 provides a new feature that allows an Administrator to shorten the length of a SIP packet by using the compact form. This feature is in accordance with Compact SIP Headers defined in RFC 3261.

For example, the following SIP header is the long format:

```
Via: SIP/2.0/UDP
10.50.91.2:5060;branch=z9hG4bK571ebe0c;rport=5060;received=10.50.91.2
From: "Unknown" <sip:Unknown@10.50.91.2>;tag=as19d00fc8
To: <sip:1106@10.50.110.54:5060;transport=udp>;tag=916699998
Call-Id: 73cad5456806f3a7768d17e8617279d7@10.50.91.2
CSeq: 102 OPTIONS
```

The following SIP header is equivalent to the above SIP header, but uses the short (compact) format instead:

```
v: SIP/2.0/UDP
10.50.91.2:5060;branch=z9hG4bK571ebe0c;rport=5060;received=10.50.91.2
f: "Unknown" <sip:Unknown@10.50.91.2>;tag=as19d00fc8
t: <sip:1106@10.50.110.54:5060;transport=udp>;tag=916699998
i: 73cad5456806f3a7768d17e8617279d7@10.50.91.2
CSeq: 102 OPTIONS
```

By default, the IP Phones use the long format. However, an Administrator can provision the short (compact) format using the configuration files. The Aastra Web UI does not support this configuration feature.

Enabling/Disabling the Compact SIP Headers Feature

To enable/disable compact sip headers use the following configuration parameter:

- **sip compact headers**

Parameter – *sip compact headers*	**Configuration Files** aastra.cfg, <mac>.cfg
Description	Enables or disables the IP phones to use compact SIP headers in the SIP packets sent from the phone.
Format	Boolean
Default Value	0 (disabled- uses long SIP header format)
Range	0 (disabled- uses long SIP header format) 1 (enabled- uses short (compact) SIP header format)
Example	sip compact headers: 1

User Interface Feature

Support for Additional Codec Types and Codec Priority Selection

Release 2.4.1 includes support for additional code types. Previously, using the Aastra Web UI or the configuration files, an Administrator could enable or disable basic codecs for the phones (G.711 u-law, G.711 a-law, and G.729), customize a codec preference list, and enable or disable silence suppression.

Now using the Aastra Web UI or the configuration files, an Administrator can select from up to 14 codecs for the phones AND customize a codec preference list of up to 10 codecs. Silence suppression can still be enable or disabled as required.

Configuring Customized Codecs Using the Configuration Files

Using the configuration files, you can enter the following parameters to configure the codecs for the phones and customize a codec preference list.

- **sip customized codec** (this parameter has not changed but now supports up to 14 codecs)

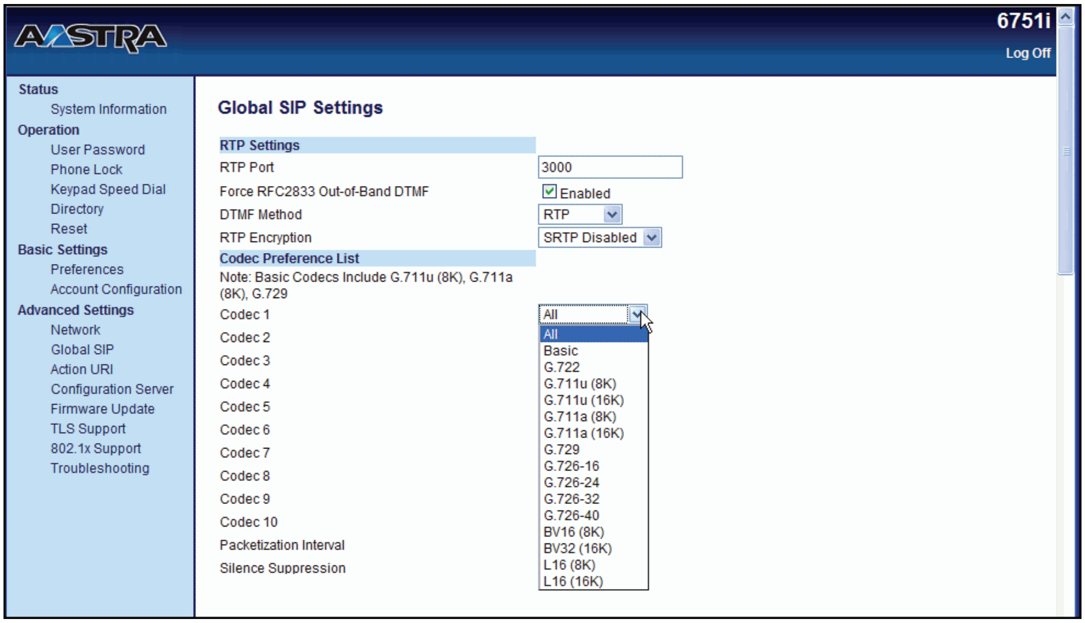
Parameter – *sip customized codec* *Codec Preference List* (in Web UI)	**Aastra Web UI** Advanced Settings->Global SIP->RTP Settings **Configuration Files** aastra.cfg, <mac>.cfg
Description	Specifies a customized Codec preference list which allows you to select the preferred Codecs for this IP phone. You can enter up to 10 codec preferences. **Note:** Enabling or disabling silence suppression (**sil supp**) enables/ disables it for all codecs in the customized list.
Format	Comma-separated list of semicolon-separated values
Default Value	Not Applicable
Range	Valid values for the syntax are: **payload** 0 - G711u/8000 8 - G711a/8000 98 - G726-16/8000 97 - G726-24/8000 115 - G726-32/8000 96 - G726-40/8000 18 - G729/8000 106 - BV16/8000 107 - BV32/16000 110 - G711u/16000 111 - G711a/16000 9 - G722/8000 113 - L16/16000 112 - L16/8000 **ptime** (in milliseconds) 5, 10, 15, 20........90 **silsupp** on, off **Note:** The “silsupp” value is either ON for all codecs or OFF for all codecs.
Example	sip customized codec: payload=18;ptime=10;silsupp=on,payload=0;ptime=10; silsupp=on

Configuring Customized Codecs Using the Aastra Web UI

Use the following procedure to customize codecs for the phones using the Aastra Web UI.

Aastra Web UI

1 Click on **Advanced Settings->Global SIP->Codec Preference List**.



2 In the Codec Preference List 1, select a codec 9 (with its payload type) you want the phones to use. Valid values are:

All
Basic (G.711 u-law, G.711 a-law, G.729)
G722
G711u/8K
G711u/16K
G711a/8K
G711a/16K
G729
G726-16
G726-24
G726-32
G726-40
BV16 (8K)
BV32 (16K)
L16 (8K)
L16 (16K)

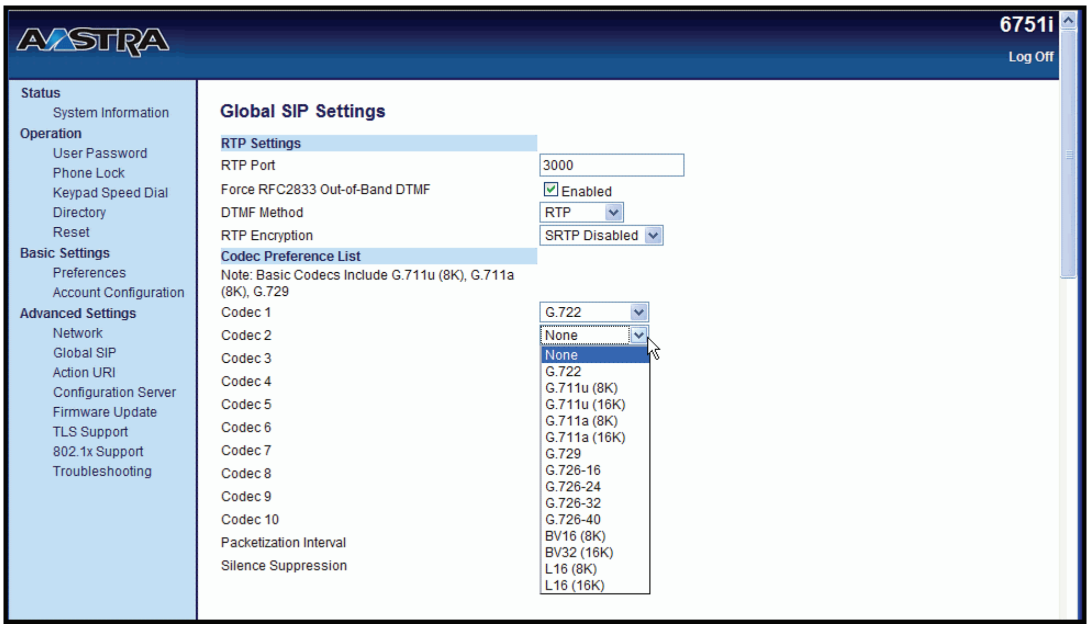
Notes:
1. Setting the **Codec Preference List 1** to “**All**” ignores the **packetization interval** (ptime). The **packetization interval** setting defaults to 30, which is the default for all codecs.
2. Setting the **Codec Preference List 1** to “**All**” automatically sets all other codec preference fields **2** through **10** to “**None**”.
3. Setting the **Codec Preference List 1** to “**Basic**” and all other codec preferences in **2** through **10** to “**None**”, forces the phone to use only the basic codecs as in previous releases (G.711 u-law, G.711 a-law, and G.729). If you select an additional codec to use in the codec preferences **2** through **10** fields, those codecs are added to the list of Basic codecs for the phone to use.

Aastra Web UI

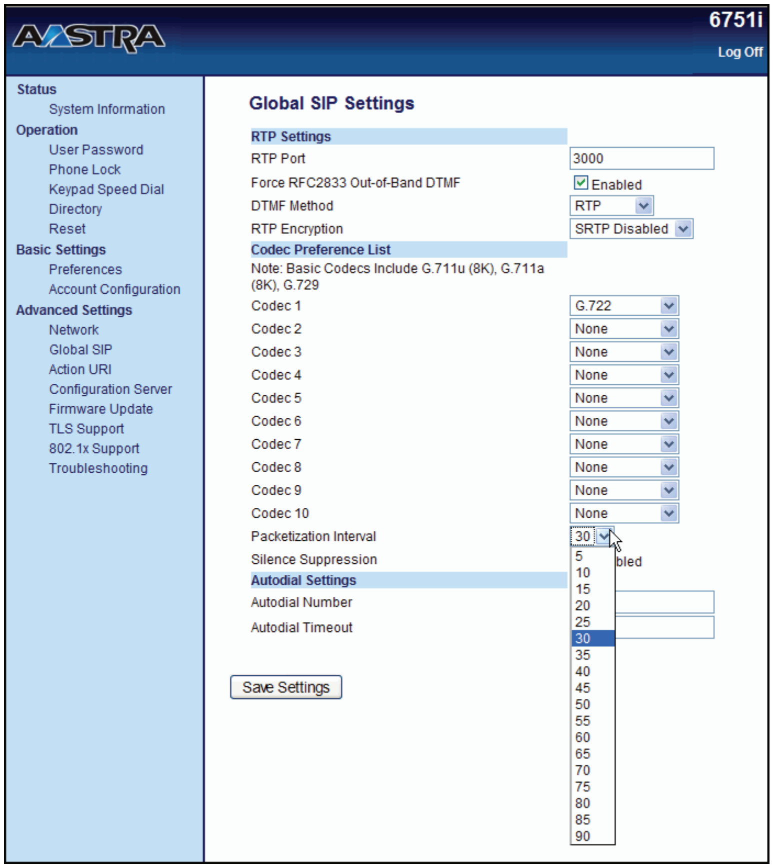
3 In the Codec Preference List 2 through 10, select a preference of codecs (with its payload type) to use on the phone. Valid values are:

None
G722
G711u/8K
G711u/16K
G711a/8K
G711a/16K
G729
G726-16
G726-24
G726-32
G726-40
BV16 (8K)
BV32 (16K)
L16 (8K)
L16 (16K)

Note: You can select up to 9 codecs in addition to the codec you selected in step 2.



Aastra Web UI

<table>
<tr><td>4</td><td>In the “Packetization Interval” field, select the time, in milliseconds. Valid values are 5 to 90, in increments of 5 milliseconds.


</td></tr>
<tr><td>5</td><td>In the “Silence Suppression” field, enable or disable as applicable.

When enabled, the phone negotiates whether or not to use silence suppression. Disabling this feature forces the phone to ignore any negotiated value.

Reference: For more information about silence suppresion, see the SIP IP Phone Administrator Guide.</td></tr>
<tr><td>6</td><td>Click Save Settings to save your changes and reboot the phone for the change to take affect.</td></tr>
</table>

For more information about codecs, ptime, and silence suppression, see the ***SIP IP Phone Administrator Guide***.

Issues Resolved in Release 2.4.1

This section describes the issues resolved on the IP Phones in Release 2.4.1. The following table provides the issue number and a brief description of each fix.

Note: Unless specifically indicated, these resolved issues apply to all phone models.

Issue Number	Description of Fix
User Interface	
ENH11409	BLF/list: The LED on the phone now shows a solid RED indicating the initiater as Busy during a BLF/List call.
DEF10515	Performing the “park a call” with the cordless phones using CT handset now works properly.
DEF11394	There are no longer Private/Public dialing/display Caller-ID issues when using the CT handsets.
DEF11519	Error messages now use current language configured on the phone.
DEF11522	Ringing screen now has the name on the first line and number on the second line as expected.
DEF11636	6757i: Ringtone is no longer heard over conversation on a call.
DEF11746	Expansion Modules: Changes made to the list names on the expansion modules are now dynamic and apply after saving the name.
DEF11851	Trailing spaces (%20) in the dial string are now trimmed before dialing.
Web UI	
DEF11578	6757iCT: Configuration Server fields are no longer greyed out. and can now be edited if required.
DEF11754	Vlan: Changing “PC passthru vlan” parameter now prompts the user to reboot the phone.
DEF11810	TLS continues to work properly if TLS files are deleted from the configuration server. TLS uses files stored on the Flash as expected.
DEF12061	No longer a Javascript error on saving a Web page if DHCP is disabled.
SIP	
ENH12057	Replacement of “early-only” now works as expected when server sends 181 instead of 180.
DEF09110	Broadsoft Call Foward No Answer: phone no longer generates 302.
DEF11395	Phone no longer continues to ring after a CANCEL packet.
DEF11396	Update message is now taken into account When UPDATE is received after 183 with SDP followed by 180 without SDP.
DEF11547	SDP session version is now correct on the answering party’s phone display.
DEF11570	SRV lookup for TURN on the phone now performs as expected.
DEF11742	Phone now shows correct caller extension number after receiving INVITE w/ earlyonly.
DEF11876	No longer a typo in the NOTIFY sent by the phone when using the ACD feature.
DEF12111	The phones now add quotes around the display name in the contact header in 180 ringing as expected.
DEF12198	Third party BLA registration is no longer missing the 5060 UDP SRC port in the contact header.

Issue Number	Description of Fix
Configuration	
DEF12085	FTP provisioning now works as expected with proFTPd.

Contacting Aastra Telecom Support

If you've read this release note, and consulted the Troubleshooting section of your phone model's manual and still have problems, please send inquiries via email to support@aastra.com.

Generic SIP IP Phone
Models 9143i, 9480i, 9480i CT, and 675xi Series

2.4.1 Release Notes

RN-001029-03 Rev 01

Release 2.4.1
December 2008