Release Note

SIP RAVA CLIENT V2.14

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Firmware name:	SIP RAVA CLIENT V2.14		
FW Release Date:	03. Nov. 2015		
Package Name:	abcl_sip_rava_v2.14_20151103.zip		
Version Overview:	**Type**	**File name**	**Version Date**
	Firmware	abclw.rom	VB1.16_20151102
	WEB UI	abclapp.cob	V02.07_20140820
	FW Ext. 1	sg.bin	V10.12_20151019
	FW Ext. 2	fs.bin	VA2.08_20140820
	FW Ext. 3	bclio.bin	V02.06_20151028
	Bootloader	exfull.rom	V99.27_20141216

1   Hardware Compatibility

The SIP-RAVA Client is designed to run on the Annuncicom 200-RAVA device

The firmware can also be loaded on the following devices:

• Annuncicom 100 and Annuncicom 200

Note: While the firmware may run on any other Barix audio devices (e.g. Annuncicom PS1, Annuncicom PS16, etc), the complete functionality is not guaranteed in this case

2   Fixed Bugs

The following bugs have been fixed in SIP-RAVA V2.14 compared to the previously released V2.13E :

• Bug 117.23: BCL warning when the nonce is 64 bytes long

• Bug 117.24: Wrong value in the SDP description

• Bug: Removed the quotes around MD5 when specifying the algorithm in the Authorization header

3   New Features and Improvements

The following new features have been introduced in SIP-RAVA V2.14 compared to the previously released V2.13E :

• New feature 117.28: Added support for the opaque parameter during the authorization process for compatibility with some PBX servers

• New feature HY-133: Added configurable global call timeout

• HY-134: Auto hang-up timer extended to two minutes followed by pending call cancel

• TW-13: CIP messages processing optimized to solve the issue of the CRESTRON panels not being able to initiate SIP call properly at first attempt

• TW-14: The SIP client does not attempt a group call anymore if no peers are detected

• Improved to handle failing ARP resolution over WiFi

• TW-15: No ringtone for outgoing call in HDX mode

4   Known Issues

The following issues have been detected when testing CIP enabled calls between the Barix SIP client and the CRESTRON panels:

1. Limited UDP broadcast (sending to address 255.255.255.255) is not supported on Barix devices, so the CIP functionality has been implemented using local UDP broadcast.

2. When the "Beep on Call Answer" option is activated for Inbound and/or Outbound calls, the first 500ms audio sent by the remote party might be lost

3. AEC performance with the G.722 codec is not optimal, so the support for G.722 has been disabled in this release.

4. Starting from v2.13E of the SIP RAVA client the name of the BCL application has been changed from sip to sip_rava. When upgrading the FW from versions prior to v2.13E the device might reboot automatically one more time after finishing the FW upgrade process in order to properly change the application name and avoid the step of manually reverting to factory defaults and reconfiguring again the device.

5 Supported CIP Functionality

The following CIP messages are supported in this version of the SIP RAVA client:

Message type	RX	RX Action	TX	TX Action
0x14	Yes	Reply with 0x15	No	
0x15	No		Yes	Sent in response of 0x14
0x16	Yes	Reply with 0x16	No	
0x17	No		Yes	Sent in response (unicast) of 0x16, and broadcasted 3 times at device boot
0x18	No		No	
0x19	No		No	
0xA6	Yes	Check if its ID is requested, and reply with 0xA7	Yes	Broadcast this query to get the IP to start a SIP call
0xA7	Yes	If in reply of its own 0xA6 request, then start SIP call	Yes	Sent in response of received 0xA6 query
0xA8	Yes	Check if its own SIP group is requested, and reply with 0xA9	Yes	Broadcast this query to collect info about all locations it is trying to reach
0xA9	Yes	Build IP table (max 8) of all locations, and start a group INVITE to all	Yes	Sent in response of received 0xA8 query

The following call scenarios are supported:

- Get CIP enabled SIP call from the Crestron TPMC-4SM-FD panel in P2P mode;

- Make outgoing CIP enabled SIP call to the Crestron TPMC-4SM-FD panel in P2P mode;

- Get CIP enabled SIP Group Page from the Crestron TPMC-4SM-FD panel in P2P mode

- Initiate multiple outgoing calls to maximum of 16 peers, and maintain only one active call (others are cancelled as soon as the first one picks up the call)

- IP table update supported only when sending SIP GROUP QUERY message

The following features are *NOT* supported:

- SIP Group paging initiated from the SIP client;

- LIGHT-N-POLL mode;

6 Release generating details[1]

6.1 CVS to GIT migration details

Starting from v2.13E the SIP-RAVA client has moved from the old CVS repository to the new GIT repository. In order to improve the SW maintenance, the SIP RAVA client as been migrated from the *crestron-sip-rava* branch to the repo *HEAD* as a *sip_rava* ABCL application.

In this sense, the history starts from v2.13E onwards. To access previous application history, you need to checkout the code from the GIT repo using the old CVS branch tag *crestron-rava-sip*, then use the *gitk* tool to view older history

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1 This information is intended for BARIX developers only

6.2   GIT release tag

The barix and bcl repositories are tagged with the following tag:

abcl_sip_rava_v2.14_20151103

6.3   Compile commands:

To compile this release, checkout the **barix** and **bcl** repositories with the tag mentioned above, then run the following command from the **barix** folder:

make ab_sip_rava

6.4   Regenerating the FW image

The source code of the SIP Client application is too big in size, and cannot fit into the COB file together with the tokenized BCL code. The generated release already has the source code stripped out of the FW image. However, if for some reason manual rebuild of the FW is needed, then the *applications.sh* script or the *applictns.bat* batch file has to be run with the **-no_source** option to regenerate the applications.cob file:

```
./applications.sh -no_source
```

7   Legal Information

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