

# Release Note

## SIP RAVA CLIENT V2.12D

<b>Document Name:</b>	Release Note																					
<b>Document ID:</b>	20130403ASI1																					
<b>Document Date:</b>	08. Apr. 2013																					
<b>Document Version:</b>	V1.00																					
<b>Firmware name:</b>	SIP RAVA CLIENT V2.12D																					
<b>FW Release Date:</b>	08. Apr. 2013																					
<b>Package Name:</b>	abcl_sip_v2.12d_20130408.zip																					
<b>Version Overview:</b>	<table><thead><tr><th>Type</th><th>File name</th><th>Version Date</th></tr></thead><tbody><tr><td>Firmware</td><td>abclw.rom</td><td>VB1.11_20130304</td></tr><tr><td>WEB UI</td><td>abclapp.cob</td><td>V02.02_20120601</td></tr><tr><td>FW Ext. 1</td><td>sg.bin</td><td>V09.26_20130304</td></tr><tr><td>FW Ext. 2</td><td>fs.bin</td><td>VA2.06_20110322</td></tr><tr><td>FW Ext. 3</td><td>bclio.bin</td><td>V01.24_20130226</td></tr><tr><td>Bootloader</td><td>exfull.rom</td><td>V99.26_20120223</td></tr></tbody></table>	Type	File name	Version Date	Firmware	abclw.rom	VB1.11_20130304	WEB UI	abclapp.cob	V02.02_20120601	FW Ext. 1	sg.bin	V09.26_20130304	FW Ext. 2	fs.bin	VA2.06_20110322	FW Ext. 3	bclio.bin	V01.24_20130226	Bootloader	exfull.rom	V99.26_20120223
Type	File name	Version Date																				
Firmware	abclw.rom	VB1.11_20130304																				
WEB UI	abclapp.cob	V02.02_20120601																				
FW Ext. 1	sg.bin	V09.26_20130304																				
FW Ext. 2	fs.bin	VA2.06_20110322																				
FW Ext. 3	bclio.bin	V01.24_20130226																				
Bootloader	exfull.rom	V99.26_20120223																				



# 1 Hardware Compatibility

---

This firmware is intended to run on the following devices:

- Annunicom 100/200 with IPAM 102

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

## 2 Fixed Bugs

---

The following bugs have been fixed in the compared to the previously released V2.11 :

- Bug 120.03: HDX mode voice activity switching does not work properly when the stream timeout is enabled;
- Bug 120.04: Malformatted TO: field in the SIP CANCEL message when group call is initiated.

## 3 Known Issues

---

The following issues have been detected when testing CIP enabled calls between the Barix SIP client and the CRESTRON TPMC-4SM-FD panel. For more details please refer to the provided test report

1. When a SIP call is initiated from the CRESTRON TPMC-4SM-FD panel, sometimes a second click is needed to sent the SIP INVITE after fetching the necessary info by sending a 0xA6 CIP request message. In rare cases it may also happen that after establishing a SIP call the CRESTRON panel does not send out any audio to the Barix Client.
2. 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.
3. The AEC gives in the best case attenuation of 24dB. To achieve that the Speaker Volume and/or the Mic Gain have to be set so that the feedback level is lower than the original signal. It might depend on the specific door station panel setup (e.g. Volume max 50%, Mic Gain max 21dB) .

## 4 Supported CIP Functionality

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

<b>Message type</b>	<b>RX</b>	<b>RX Action</b>	<b>TX</b>	<b>TX Action</b>
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 8 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;

## 5 Release generating details<sup>1</sup>

---

### 5.1 CVS branch name

crestron-sip-rava

### 5.2 CVS release tag

abcl\_sip\_212d\_20130408

### 5.3 Compile commands:

make ab\_sip

### 5.4 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
```

## 6 Legal Information

---

© 2013 Barix AG, Zurich, Switzerland.

All rights reserved.

All information is subject to change without notice.

All mentioned trademarks belong to their respective owners and are used for reference only.

Barix and SIP CLIENT are trademarks of Barix AG, Switzerland and are registered in certain countries.

**RAVA** is a trademark of Crestron Electronics, Inc.

For information about our devices and the latest version of this manual please visit [www.barix.com](http://www.barix.com)

Barix AG  
Seefeldstrasse 303  
8008 Zürich  
SWITZERLAND

T +41 43 433 22 11  
F +41 44 274 28 49

[www.barix.com](http://www.barix.com)  
[sales@barix.com](mailto:sales@barix.com)  
[support@barix.com](mailto:support@barix.com)

---

<sup>1</sup> This information is intended for BARIX developers only