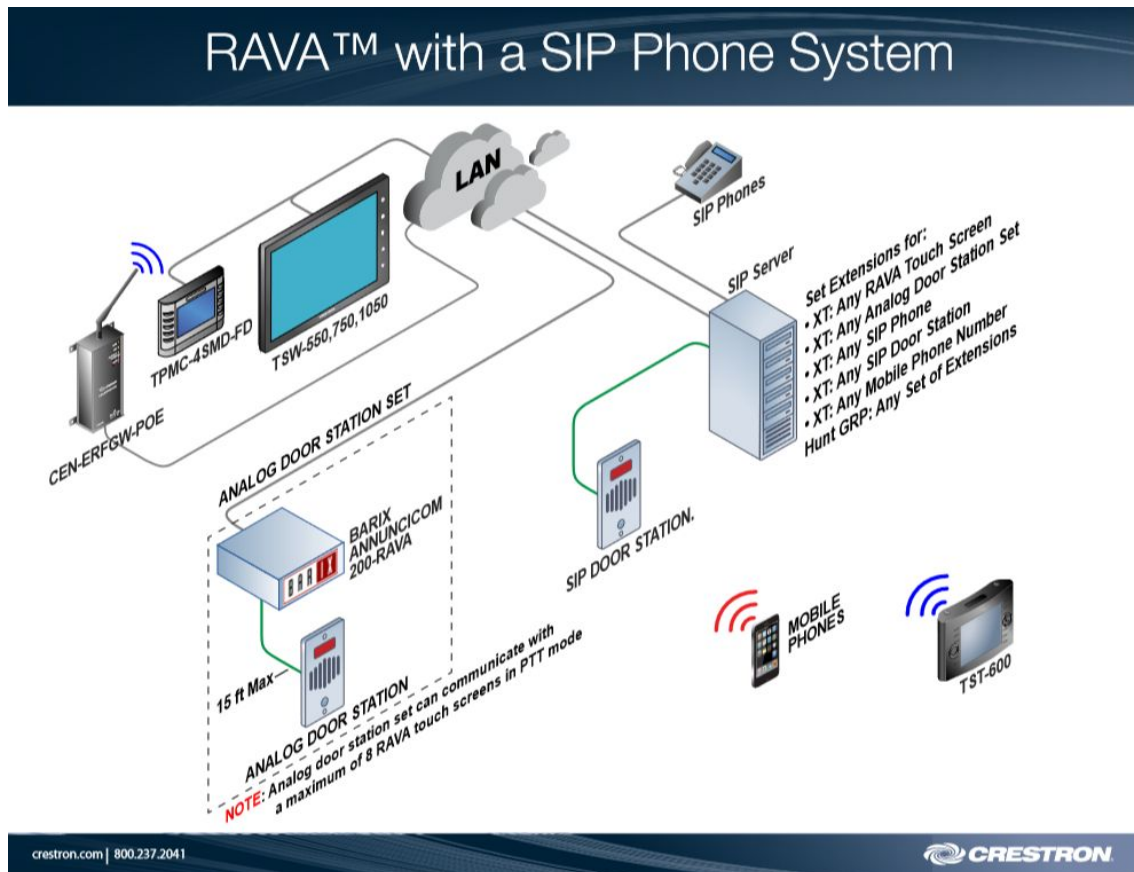


Akuvox Door Phone Integrate with Crestron Panel

Network diagram



Akuvox door station

In the web interface, go to **Account > Basic** to configure SIP account and SIP server for door phones first.

Status: To display register result.

Display Label: To configure label displayed on the phone's LCD screen.

Display Name: To configure name sent to the other call party for displaying.

Register Name: To enter extension number which users want and the number is allocated by SIP server.

User Name: To enter user name of the extension.

Password: To enter password for the extension.

SIP Account	
Status	Registration Failed
Account	Account 1 ▼
Account Active	Enabled ▼
Display Label	R27
Display Name	Door_R27
Register Name	5101100001
User Name	5101100001
Password	••••••••

Server IP 1: To enter SIP server's IP address or URL.

Server IP 2: To display and configure secondary SIP server settings. This is for redundancy, if registering to primary SIP server fails, the phone will go to secondary SIP server for registering.

Registration Period: The registration will expire after registration period, and the phone will re-register automatically within registration period.

SIP Server 1		
Server IP	120.78.230.239	Port 5070
Registration Period	1800	(30~65535s)
SIP Server 2		
Server IP		Port 5060
Registration Period	1800	(30~65535s)

Crestron Panel

Do the SIP configuration and choose "SIP Server mode" to integrate with a SIP server.

RAVA SIP - Configuration & Console Commands

Answer ID: 5267 | Access Level: Privileged | Updated: 05/02/2019

This is a list of Console commands available on the Rava enabled touch panels for use with Rava. You will need these commands if you're setting the units up to work with a SIP Server.

[← Back to RAVA SIP Guide](#)

Rava SIP Intercom functionality is integrated in a number of Crestron touchpanels, including TSW & TPMC panels.

Rava works natively between panels via Ethernet, and supports 2-way intercom/calling and paging.

VoIP phone capability is possible through integration with a SIP-compatible IP phone system or SIP server.

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Begin by configuring the touchpanel's local Rava SIP settings.

"Peer-to-Peer" mode facilitates basic intercom/calling between panels.

"SIP Server Mode" expands functionality to integrate with a SIP server / IP phone system.

Configuration can be done from the setup menu of some panels, or via Toolbox System Info (Functions > Rava Setup) or Text Console.



In Text Console, use the **SIPINFO** command to determine your panel's current settings.

Peer-to-Peer mode settings are returned first, followed by SIP Server mode settings.

```

TSW-560>sipinfo
SIP Parameters
-----
SIP: ENABLED
-----
SIP audio mode: FD
SIP auto mode: NONE
SIP local ext: 123
SIP local name: CRESTRON
SIP local port: 5060
SIP connection mode: PEER
SIP page group(s): CRESTRON
SIP realm: *
SIP remote config file: NONE
SIP server name: NONE
SIP server port: 5060
SIP server ip address: NONE
SIP server username: guest
SIP server password: guest
SIP Name server: NONE
SIP proxy server: NONE
SIP STUN server: NONE
SIP STUN domain: NONE
SIP multicast address: 227.1.1.1
SIP multicast port: 1234
SIP transport type: UDP
SIP media port: 40000

```

Peer-to-Peer settings are configurable using the following commands:

- SIPAUDIOMODE** - Choose Full Duplex or Push-to-Talk mode; enable/disable RFC2833 (Out-Of-Band DTMF).
- SIPAUTOMODE** - Choose between normal operation or door station modes.
- SIPLOCALEXT** - Set local SIP extension.
- SIPLOCALNAME** - Set local SIP display name.
- SIPLOCALPORT** - Set SIP local port number (Default: 5060).
- SIPMODE** - Toggle between Peer-to-Peer & SIP Server modes.
- SIPPAGEGROUP** - Set SIP paging group(s) for the panel.

SIP Server settings are configurable using the following commands:

- SIPSRVREALM** - Set SIP server realm (default = *)
- SIPREMOTECONFIG** - Set SIP remote config file (specify path = http:// ...)
- SIPSRVNAME** - Set SIP server name
- SIPSERVERPORT** - Set SIP server port number
- SIPSRVIPADDRESS** - Set SIP server IP address
- SIPSRVUSER** - Set SIP server username
- SIPSRVPASS** - Set SIP server password
- SIPNAMESRV** - Set SIP DNS name server IP address
- SIPPROXYSRV** - Set SIP proxy server IP address
- SIPSTUNSRV** - Set SIP STUN server IP address
- SIPSTUNDOMAIN** - Set SIP STUN DOMAIN IP address
- SIPMULTICASTADDRESS** - Set SIP multicast IP address
- SIPMULTICASTPORT** - Set SIP multicast port number
- SIPTRANSPORT** - Set SIP transport (UDP / TCP / TLS)
- SIPMEDIAPORT** - Set SIP media port number

"Peer-to-peer" Rava calling is dependent on configuring a **local phonebook** on each panel.

The **local phonebook** is a list of panel extensions and their corresponding IP addresses, names, paging groups, etc.

Use **SIPEXT** command the view the **local phonebook**, and **SIPADDEXT** / **SIPREMEXT** to add/remove entries.

Once phonebook entries have been added, the panel can dial by extension from the Rava test page or via programming.

Reference the "VOIP Reserved Joins" Device Extender Help File (F1 in SIMPL) for additional programming info.

```
TSH-560>sipext
SIP Local Extension List: (no entries)

TSH-560>sipaddext ?
Add a SIP extension to the local phonebook
SIPADDEXT [EXT] [IP] [NAME] [PORT - optional] [PAGEING GROUP - optional]
EXT - Extension (in decimal)
IP - IP address in dot decimal notation
    or name of the site for DNS lookup
NAME - Display name of the extension
PORT - port number for the connection (in dec) (default is 5060)
PAGEING GROUP - paging group(s) as comma delimited string (A,B,C)

TSH-560>sipaddext 101 172.31.0.100 LIVINGROOM 5060 Downstairs.WholeHouse
Extension added

TSH-560>sipext
SIP Local Extension List:
Extension IP Address Display Name Port Page Group(s)
101 172.31.0.100 LIVINGROOM 5060 DOWNSTAIRS.WHOLEHOUSE
```

< BACK

Rava Diagnostics

This Extension: 123

Rava Setup	101	Page All
Peer to Peer Enabled	1 2 3	AutoAnswer Off
Call Active	4 5 6	Answer
Incoming Call	7 8 9	Hangup
Callee Busy	* 0 #	
	Clear Call Back	

Save & Exit

Program View

- Central Control Module: MCL
- Slot-01: MCL Desktop - CB-MCNET-1
- Slot-02: MCL Ethernet - CB-MCNET-1
- Slot-03: TSW-560 - TSW-560
- Slot-04: TSW-560 Buttons - TSW-560 Buttons
- Slot-05: TSW-560 VSP Reserved Join
- Slot-06: CB-MC-8000-80 - CB-MC8000-80
- Slot-07: CB-MC2-COM-232 Built-in 2 RS-232 Ports
- Slot-08: CB-MC2-RIO Built-in 2 Low Voltage Isolates
- Slot-09: CB-MC2-IO2 Built-in Digital Input Card - CB-MC2-IO2
- Slot-10: CB-MC2-8S 5 Port RJ45 - CB-MC2-8S
- Slot-11: CB-MC2-8S 5 Port RJ45 - CB-MC2-8S
- Slot-12: CB-MC2-8S 5 Port RJ45 - CB-MC2-8S
- Slot-13: CB-MC2-AUDIO - CB-MC2-AUDIO
- Slot-14: CB-MC2-SYSTEMMONITOR - CB-MC2-SYSTEMMONITOR
- Slot-15: CB-MC2-USB-HUB2 - CB-MC2-USB-HUB2

Detail View

See SIP ID-01P ID-01L: TSW-560 VSP Reserved Join

String Choof

String Choof	String To Dial	My SIP ID	Incoming SIP ID
	Comment SIP	Comment SIP	
	Group To Dial	Incoming Display Name	

Serial I/O

Extension	101	String Choof	ext1
GroupPage DownstairsParish	DOWNSTAIRS		ext2
GroupPage WholeHouse	WHOLEHOUSE		ext3
URI	sip 101@172.31.0.100:5060		ext4

The command **HELP RAVA** will show a list of possible commands & brief descriptions. The list below is from the TSW-xx60 series panels; other panels may differ slightly. Each command can be followed by a ? to provide a more detailed description & syntax.

SIPADDEXT	Add a SIP extension to the local phonebook
SIPAUDIOMODE	Get or Set SIP audio mode
SIPAUTOANSWERDELAY	Get or Set auto-answer delay
SIPAUTOANSWER	Get or Set auto-answer mode
SIPAUTOMODE	Get or Set SIP auto function mode
SIPCALLTIMEOUT	Get or Set call timeout for pending calls
SIPCODECPRIO	Get or Set audio codec priorities
SIPDEFAULTRING	Get or set usage of default ring tones.
SIPENABLE	Enable/Disable SIP (RAVA)
SIPEXT	Display the local address book
SIPINFO	Show SIP info
SIPLOCALEXT	Get or Set SIP local extension
SIPLOCALNAME	Get or Set SIP local display name
SIPLOCALPORT	Get or Set SIP Local Port number
SIPMEDIAPORT	Get or Set SIP media port

SIPMODE	Get or Set mode - SERVER or PEER
SIPMULTICASTADDRESS	Get or Set SIP multicast IP address
SIPMULTICASTPORT	Get or Set SIP multicast port
SIPNAMESRV	Get or Set SIP DNS name server IP address
SIPPAGEGROUP	Get or Set SIP paging groups as a comma delimited string (A,B,C)
SIPPROXYSRV	Get or Set SIP proxy server IP address
SIPREMXEXT	Remove SIP extension from the local phonebook
SIPREMOTECONFIG	Get or Set SIP remote config file for use with current AUTO mode
SIPRESTART	Send SIP configuration parameters to application
SIPSERVERPORT	Get or Set SIP server Port number
SIPSETPORTER	Get or Set active Porter
SIPSRVIPADDRESS	Get or Set SIP server IP address
SIPSRVNAME	Get or Set SIP server name
SIPSRVPASS	Get or Set SIP server password
SIPSRVREALM	Get or Set SIP server realm
SIPSRVUSER	Get or Set SIP server username
SIPSTATE	Show SIP states
SIPSTUNDOMAIN	Get or Set SIP STUN DOMAIN IP address
SIPSTUNSRV	Get or Set SIP STUN server IP address
SIPTLS	Get or Set TLS parameters
SIPTRANSPORT	Get or Set SIP transport
SIPTRUSTedcas	Select/List SIP Trusted CA Certificates

3CX Settings Example (SIP Server Address: 10.32.4.108 / Username: 101 / Password: 101):

```
SIPAUTOMODE FD
SIPLOCALEXT 101
SIPLOCALNAME Name
SIPLOCALPORT 5060
SIPMODE server
SIPNAMESRV NONE
SIPSERVERPORT 5060
SIPSRVIPADDRESS 10.32.4.108
SIPSRVNAME 3CX
SIPSRVPASS 101
SIPSRVREALM 3CXPhoneSystem
SIPSRVUSER 101
SIPSTUNDOMAIN NONE
SIPSTUNSRV NONE
SIPREMOTECONFIG NONE
SIPPROXYSRV NONE
```

BPT Settings Example (SIP Server Address: 192.168.70.200 / Username: 00700000002 / Password: 00700000002):

```

SIPAUDIOMODE fd
SIPAUTOMODE ds
SIPLOCALNAME 4SM-FD
SIPSRVREALM asterisk
SIPSRVNAME BPT
SIPSRVUSER 00700000001
SIPLOCALEXT 00700000001
SIPSRVPASS bptcres
SIPLOCALEXT 00700000002
SIPSRVIPADDRESS 192.168.70.10
SIPSERVERPORT 5060
SIPREMOTECONFIG http://192.168.70.10/XIP-server/xipPlant/bptXipPlant.xml
SIPMODE server

```

How to set a RAVA enabled interface to Automatically answer incoming calls:

RAVA/SIP enabled interfaces are set by default with Auto-Answer set to off, and as such, user interaction is required to answer an incoming call. The console command **SIPAUTOANSWER ON** will enable a RAVA enabled interfaces to Automatically Answer an incoming call.

*In addition to enable <Auto Answer> on the target device, the outgoing call must also be place as an Auto Answer call.

In Peer to Peer mode:

Pre-pend * to the extension number, e.g. *123.

In SIP Server Mode:

Configure the SIP server to auto-answer an outgoing call.

Peer-to-Peer examples:

- If a parent wants to call a kid's room to say "please get out of bed", "dinner is ready" etc. you might want that particular touch screen to auto-answer, and the outgoing dial string will be: *123
- If you have a touch screen in a guest room, but you don't want that location to make an auto-answer call to the same kid's room, then you use dial string: 123
- The same guest touch screen might want to make an auto-answer call to the kitchen, and will use dial string *234
- A call from a 3rd party door station will not be an auto-answer call so that call will not pick up automatically regardless of the setting on the receiving panel(s).

Additional examples on how to use the pre-pend * for <String_To_Dial> serial strings in Peer-to-Peer (RAVA) mode:

- All RAVA enabled devices are on the same subnet:
<String_To_Dial>: *123
- If RAVA enabled devices are on different subnets:
<String_To_Dial>: *sip:123@192.168.1.123

How to disable RAVA functionality entirely?

RAVA/SIP is enabled on all panels by default, regardless of whether or not logic is defined in the program or panel project. However, in the event you wish to completely disable RAVA/SIP – it can be disabled via the following console command: **SIPENABLE OFF**

How to use Toolbox Script Manager to create SIP / RAVA phonebook on multiple panels?

An example script is attached below showing how to build an address book on three panels.

The script can be modified or expanded as needed to accommodate more panels, groups, commands, etc.

[OLH 5476](#) also has a RAVA SIP demo program / guide that builds address books from SIMPL.

Why are SIP Page Groups not working when touchpanels are set to SIP Server mode?

In some cases the Page Groups must be configured on the SIP server (in addition to being configured on the touchpanels/endpoints)

Attachments

- [SIP RAVA Basic Address Book Script v2.txt](#)
 - [TSWx60 RAVA SIP Command List For Information Tool \(OLH 5479\).txt](#)
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