Siedle Access SIP Configuration

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This document was prepared and written by the Technical Documentation department at:

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Description

This document is to inform you about the interoperability between a Crestron TSW-752 Panel and the Siedle Access Server. The system includes a Siedle ATLC 670-0 (Access door intercom unit) that operates as a second participant.

Setup

Vendor	Model	Software Release
Crestron	TSW-752	PUF 1.000.0046
Siedle	Access Server	access@siedle.de
Siedle	ATLC 670-0	access@siedle.de
Siedle	AVA 670-0	access@siedle.de

Additionally Tested Terminals Compatible to the Setup

Vendor	Model	Software Release
Crestron	TSW-750	PUF 1.000.0046
Crestron	TPMC-4SM-FD	PUF 1.010.0042
Crestron	TPMC-9L	PUF 11.068.0103
Crestron	TPMC-V15	PUF 1.00.02.785

Crestron International   **Siedle Access SIP Configuration**
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Fax: Specifications subject to
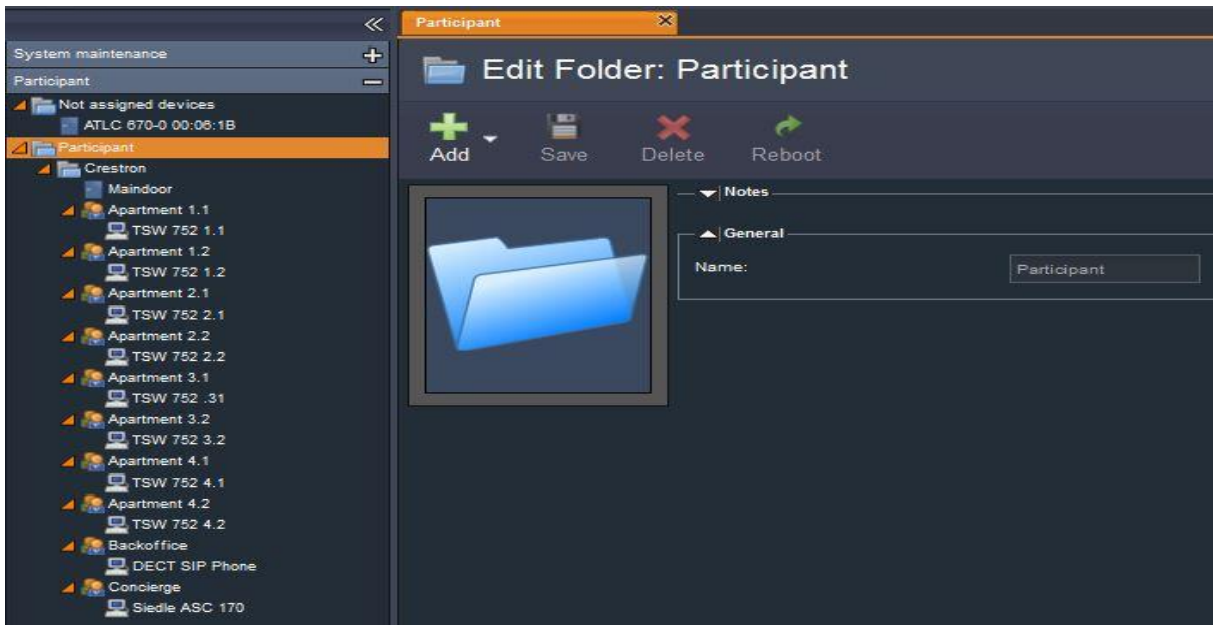www.crestron.eu   change without notice.
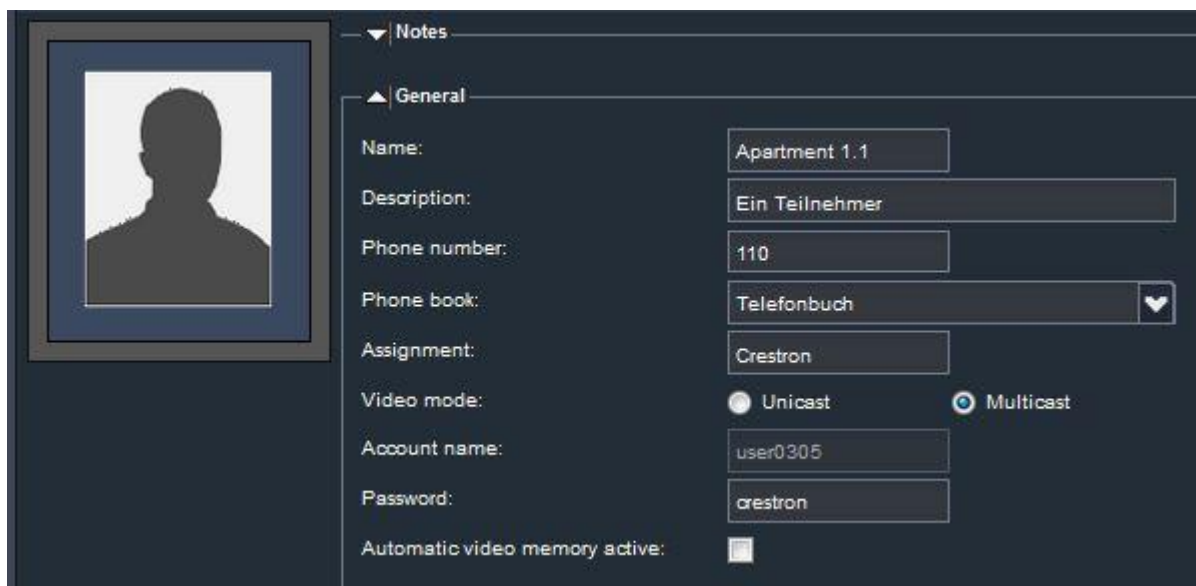
Configuration

Participants

Open the web-interface of the Siedle Access system and click onto the menu tab 'Participant and select the folder 'Participant.

Picture 1 – Subscriber Overview

Adding a participant

A new tab opens up. You can now add a new participant via clicking onto 'Add' 'Participant'. Enter the name and assign a password. This password is the user-password for the Crestron touch panel.

Picture 2 – Add Subscriber

Via 'Add' 'Terminal' -> 'SIP-Audio Telefon' a terminal can be added to a participant. Confirm the refreshed window with 'Save'. The 'Telephone Number' is the local extension of the Crestron touch panel.
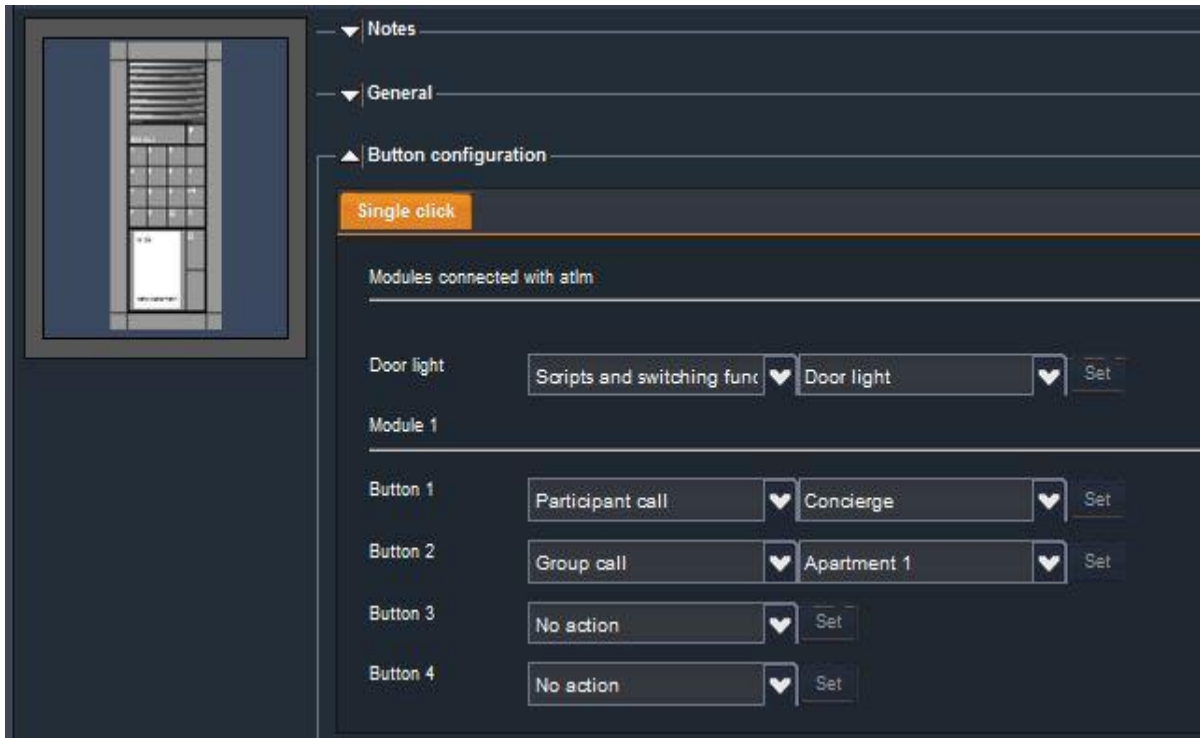

Picture 3 – Add Analogue Telephone

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For our test system setup, the Crestron touch panel is to be called via the call key (bell button) of the Access door intercom unit. Herefore you select from the Access-subscribers your door intercom unit and click onto the tab 'Key Configuration'.

In our case the function of the key can be selected via 'Module 1' 'Key 1'. Select 'Subscriber Call' and next to it the corresponding (already configured) call destination (see point 2 & 3).

Picture 4 – Edit Subscriber: ATLC 670-0 001

In case that several Crestron touch panels have been deployed, they can be simultaneously called. To enable this, a group of subscribers has to be configured prior to a call.

Herefore go onto 'Groups' and select the menu tab 'Individual Groups'. In this mask you can add a group by clicking 'Add' 'Groups'.

Assign a name for this group and assign into it the required Crestron touch panels.

This group can be assigned to a key-configuration of the door intercom unit instead of a subscriber.

Crestron Touch panel configuration

SIP Settings

1.) Start the Crestron Toolbox and open the text console – a connection to the Crestron Touch panel is now being set up.
2.) Now enter the following commands to configure the Crestron Touch panel.

SIPMODE SERVER
SIPAUDIOMODE FD
SIPAUTOMODE DS
SIPLOCALPORT 5060
SIPSERVERPORT 5060
SIPSRVREALM *
SIPSRVIPADDRESS IP_OF_ACCESS_SERVER
SIPNAMESRV IP_OF_ACCESS_SERVER
SIPPROXYSRV IP_OF_ACCESS_SERVER
SIPLOCALNAME
SUBSCRIBER_NAME_OF_SUBSCRIBER_IN_ACCESS_SERVER
   o See Picture 2, Entry Field 'Name' (Apartment 1.1)
SIPLOCALEXT
   TELEPHONE_NUMBER_OF_ANALOGUE_TELEPHONE_SUBSC
   RIBER
   o See Picture 3, Entry Field 'Phone Number (1100)
SIPSRVUSER ACCOUNT_NAME_OF_SUBSCRIBER
   o See Picture 2, Entry Field 'Account Name' (user0305)
SIPSRVPASS PASSWORD_OF_SUBSCRIBER
   o See Picture 2, Entry Field 'Password' (crestron)

Checking the Connection to the Siedle Access System

The status of all subscribers (e.g. whether they are connected) can be viewed via the web-interface of the Siedle Access system by clicking 'System Maintenance' 'Participant Status'. An already established connection is marked with the status 'Idle'.

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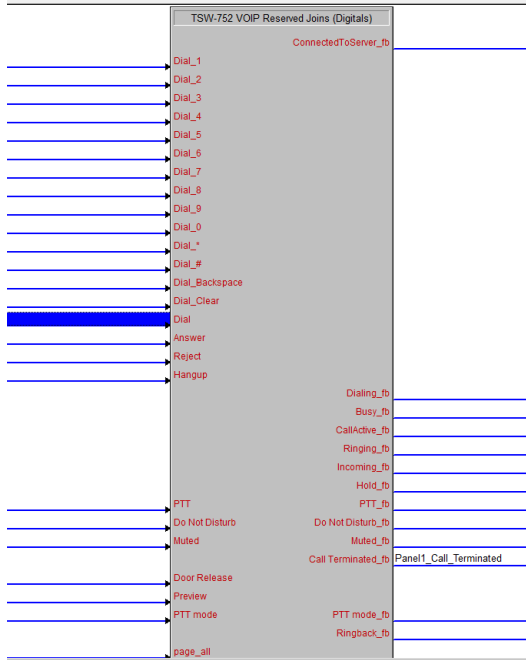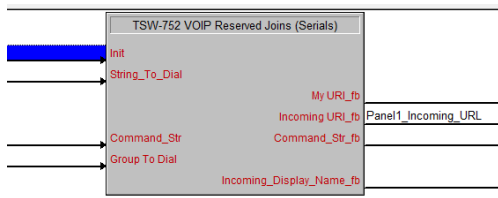
Touch panel-GUI

Reserved joins

All Rava-functions can be directly controlled through Reserved Joins via the VTP-Pro-e. Therefore a Rava-function merely requires the entry of the corresponding parameters into the text console and the setup of the correct Reserved Joins in the VTP-Pro-e interface. Below is a screenshot of an example user interface.

With the help of this user interface, you can already make calls without control.

You can additionally configure and control the Crestron touch panel via 'SIMPL Windows'. For this option add the device extender 'VOIP Reserved Joins' to the touch panel.

With this device extender, some of the RAVA-functions are applicable. See the following screenshots.
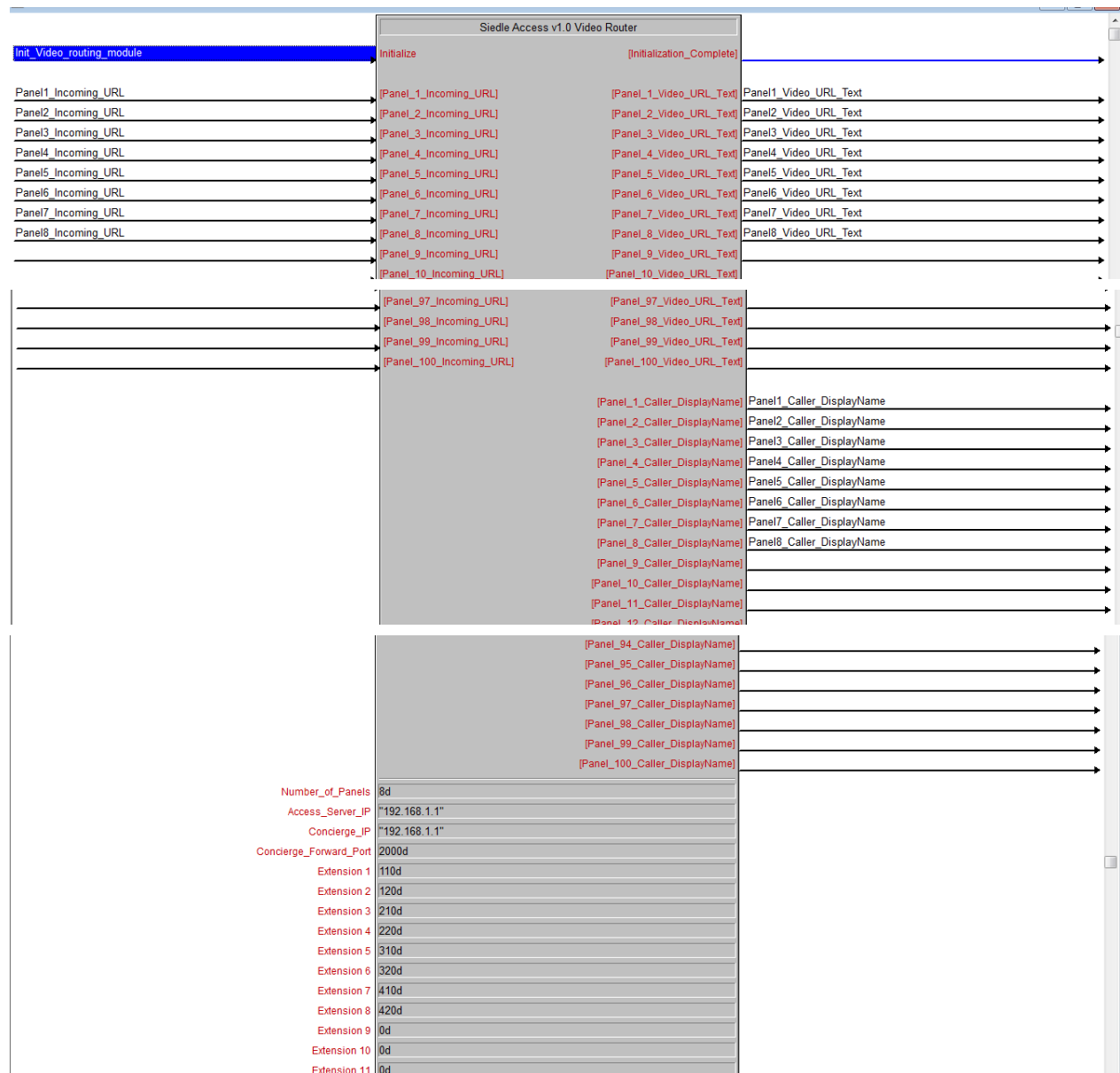
TSW-752 VOIP Reserved Joins (Serials)

Init
String_To_Dial

My URI_fb
Incoming URI_fb   Panel1_Incoming_URL
Command_Str   Command_Str_fb
Group To Dial

Incoming_Display_Name_fb

TSW-752 VOIP Reserved Joins (Digitals)

ConnectedToServer_fb

Dial_1
Dial_2
Dial_3
Dial_4
Dial_5
Dial_6
Dial_7
Dial_8
Dial_9
Dial_0
Dial_*
Dial_#
Dial_Backspace
Dial_Clear
Dial
Answer
Reject
Hangup

Dialing_fb
Busy_fb
CallActive_fb
Ringing_fb
Incoming_fb
Hold_fb
PTT   PTT_fb
Do Not Disturb   Do Not Disturb_fb
Muted   Muted_fb
Call Terminated_fb Panel1_Call_Terminated
Door Release
Preview
PTT mode   PTT mode_fb
                 Ringback_fb
page_all

With the 'String_To_Dial'-string you can directly call extensions or groups, e.g. '*100'.

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Video

To show video on the touch panel you need to use a Siedle AVA 670-0 converter. This unit will convert the analog video signal of the door station to a coax signal. This coax video signal is then sent to a video encoder. During testing we used a CEN-NVS-200 and an Axis M7001. The used streaming format (M-JPEG or H264) depends on the provided streams of the video encoder.

To manage video routing we provided an I2P module (Siedle Access v1.0 Video Router.umc) that is capable to retrieve the correct video URL based on the Incoming URL reserverd VOIP join of a touch panel. Below you can see a screenshot of the module.

Siedle Configuration:
Select the door station and use the description field to set the camera IP address.
Format: [C] followed by the IP address of the IP camera.

When a call is received from the touch panel, the module will communicate with the access server to retrieve the video URL of the correct door station. The module can be used to handle video routing for up to 100 touch panels.

Note that the extensions used to call a touch panel are the Participant phone numbers (Screenshot 2) and not the terminal phone numbers (Screenshot 3). These phone numbers need to be filled in on the Extension_x parameters of the Siedle Access v1.0 Video Router module.

See Siedle Access v1.0 Help for more details on the video routing module.