Televic Confero_DCerno V1.4
Help File

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Document Details

Title	Televic Confero_DCerno V1.4 Help File
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Reference	Televic Confero_DCerno V1.4 Help File

GENERAL INFORMATION	
SIMPL WINDOWS NAME	Televic Confero_DCerno V1.4
CATEGORY	Digital Communication Network (DCN)
VERSION	V1.4
LICENSE	**NOTE:** This module is hosted on the Crestron Application market as well as on our www.cresmods.com website. You can download the module from the application market and test it without a license. The module will work for 2 hours before it licenses automatically and will then block certain functionality if no valid license is entered. In order to get a license, please make an account at www.cresmods.com, which will allow you to purchase and acquire license keys. FYI, licenses are based on the processor's MAC address. Should you run into any problems with this, please feel free to contact us directly.
SUMMARY	This module controls one Televic Confero or DCerno system over IP. The module includes: - Delegate, speaker and request lists - Audio settings - Discussion settings - Voting - Wireless coupling / Access points While Confero and DCerno share the same protocol, they may have different features available. Such differences are represented by the module by the output signal in the sections "Modules", "Features" and "System". This module is written in SIMPL# so make sure you also copy the "Televic Confero_DCerno.clz" file in your project folder. **If you are using this module to upgrade from V1.3, make sure you use the new CLZ as with this release it got renamed to include a reference to DCerno.** Please refer to the "Televic Confero_DCerno Demo Program" for correct use. **This module is only supported on 3-series control systems or higher**. Apart from direct controls, the module offers some built in UI logic in the "Bottom_Menu" section. Therefore, **we strongly recommend**

	copy-pasting the module and its signals as well as the signals on the touchpanel symbol from the demo program to your program. If you encounter any problems implementing this module, please don't hesitate to contact us at info@cresmods.com. Your feedback is highly appreciated.
CRESTRON HARDWARE REQUIRED	3-series control system or higher
SETUP OF CRESTRON HARDWARE	The demo program was written and tested on an CP4 with X-Panel. The demo layout is written for XPanel 2.0 Smart Graphics.
VENDOR SETUP	Confero software version: 7.14.0-21 DCerno software version: 1.4.0-17 The Crestron module is based on the Confero API. More information can be found on the Televic knowledge base using the link below. https://conference.televic.digital/knowledgebase/products/confero/
CONTROL:	
Initialize	Pulse once at start up to initialize the module
License	Pulse once to license the module. When this input isn't used, the module will work for 2 hours and will then auto-license. So, without a valid license (and without) triggering the "License" input signal, the module can be used for testing for 2 hours upon every program restart.
Debug_Enable	When high the module will print out more debug information in console. We recommend using a console (Putty, Kitty) that supports color coding.
IP Address, API and AuthToken	These details can be set using the module's parameters described below. Alternatively, you can use these input to change the details. Upon every change of these details, you should retrigger the "Initialize" input signal. NOTE: In order for this module to work, on the Confero setup pages the API Type has got to be set to "Secured API". If you choose to upload a

	certificate to your Confero system, the API will communicate over HTTPS. If not, it will use the standard HTTP. The "API" parameter on the module allows you to specify this.
Bottom Menu	
The signals in this section provide functionality for the bottom menu as depicted in the Demo Layout. Check the demo program and layout for proper use. All functions available through this Bottom_Menu section are also individually available from within other signal sections.	
Meeting	
Get_Meeting	Pulse to manually poll for the active meeting. In future releases we aim to have this come in automatically, but that is currently not available in the Televic API. For now, the module does interpret other events to establish a change in the "Meeting" state and will poll automatically. So, while made available to you, this signal may not be necessary for you to use.
Meeting_Start	Pulse to start the meeting with default template
Meeting_Stop	Pulse to stop the current meeting.
Meeting_Discussion_Start/Stop	Future use
Meeting_Next_Speaker	Pulse to activate the next speaker in the request list. This depends on the current discussion settings.
Audio	
Audio_Push_To_Units	Pulse to send the current audio settings to all units.
Audio_Push_To_Units_Close_Notifications	Pulse to close the notification pop up after sending current audio settings to all units.
Audio_Default_Headphone_Volume	Set default headphone volume: 0d to 32d
Audio_Default_Headphone_Volume_Up/Down	Pulse to increase/decrease default headphone volume
Audio_Speaker_Volume	Set speaker volume: 0d to 25d
Audio_Speaker_Volume_Up/Down	Pulse to increase/decrease speaker volume
Discussion	

Discussion_Mircophone_Mode_X	Pulse to select the microphone mode
Other signals in this section allow you to set the appropriate discussion settings. Not all settings are available in all microphone modes. Check Televic functionality and/or Televic Confero_DCerno Demo Program for proper use.	
NOTE: **In Microphone Mode Group when selecting Voice Activation, the "Treshold above ambient" and "Hold time" values have to be set to appropriate values. If not, these may cause an extremely high amount of activation events to overflow the Crestron processor. Unfortunately, these values currently can't be set using the Televic API, so these will have to be set up using the Televic Confero/DCerno web interface. Therefore, we have disabled the digital input "Discussion_Voice_Activation" fromt his module for the time being.**	
Voting	
Voting_Get_Result	Pulse to poll the system for current voting results. This will have to be periodically pulsed while voting is active to get results during voting. Getting these results automatically is currently not supported by the API. In future releases we aim to handle this automatically and remove this input signal. FYI, the current demo program doesn't auto poll during voting. Instead the demo program has a manual refresh button to get voting results.
Voting_New/Stop/Close	Pulse to start, stop or close voting. In the demo program this is handled by the "Bottom_Menu" signals.
When a new voting is triggered form the module, a pop up will appear with elements allowing you to set the voting settings. Other signals in this section are provided for these settings. Check the demo program and layout for proper use.	
Delegates_X	
Signals in these sections are meant to manipulate the Delegate list. Check the demo program and layout for proper use.	
Request_List_X	
Signals in these sections are meant to manipulate the Request list. Check the demo program and layout for proper use.	
Speaker_List_X	
Signals in these sections are meant to manipulate the Speaker list. Check the demo program and layout for proper use.	
Accesspoint_List	

Signals in these sections are meant to manipulate the Accesspoint list. Check the demo program and layout for proper use.	
Recording	
Recording_Start	Pulse to start recording. In the demo program this is handled by the “Bottom_Menu” signals.
Recording_Stop	Pulse to stop recording. In the demo program this is handled by the “Bottom_Menu” signals.
FEEDBACK:	
Initialized	High when module is initialized
Licensed	High when module is successfully licensed.
Debug_Enabled	High when Debug is enabled.
Bottom Menu	
The signals in this section provide functionality for the bottom menu as depicted in the Demo Layout. Check the demo program and layout for proper use. All functions available through this Bottom_Menu section are also individually available from within other signal sections.	
Modules & Features	
Supports_ X	High when the connected system supports the module or feature, which is reflected in the demo program by enabling menu items.
System	
Supports Voting	High when the connectes system support voting
Meeting	
Meeting_Started	High when a meeting is started.
Meeting_Stopped	High when a meeting is stopped.
Meeting_Title	Title of current meeting
Meeting_Enable_Voting	High when a meeting is in progress and the current meeting allows you start a vote
Meeting_Enable_Next_Speaker	High when a meeting is in progress and the current meeting allows you to enable the next speaker.
Meeting_Show_Request	High when according to the Discussion Microphone Mode speakers need to request

	before speaking. This signal is used to show the "Request list"
Meeting_Show_Request_Not	High when according to the Discussion Microphone Mode speakers do not need to request before speaking. This signal is used to not show a bigger "Speaker list". Check the demo program and layout for proper use.
Audio	
Audio_Push_To_Units_Show_Notification	High when audio settings are pushed to all units. Goes low after triggering the "Audio_Push_To_Units_Close_Notifications" input signal.
Audio_Default_Headphone_Volume_Fb	Shows the current default headphone volume: 0d to 32d
Audio_Speaker_Volume_Fb	Shows the current speaker volume: 0d to 25d
Discussion	
Discussion_Mircophone_Mode_X_Fb	High when the respective microphone mode is currently active.
Other signals in this section allow you to set the appropriate discussion settings. Not all settings are available in all microphone modes. Check Televic functionality and/or Televic Confero_DCerno Demo Program for proper use.	
NOTE: **In Microphone Mode Group when selecting Voice Activation, the "Treshold above ambient" and "Hold time" values have to be set to appropriate values. If not, these may cause an extremely high amount of activation events to overflow the Crestron processor. Unfortunately, these values currently can't be set using the Televic API, so these will have to be set up using the Televic Confero/DCerno web interface. Therefore, we have disabled the digital input "Discussion_Voice_Activation" from this module for the time being.**	
Voting	
Voting_Active	High when a voting is currently in progress.
Voting_Inactive	High when no voting is currently in progress.
Following signal in this section are used to show voting results. Check the demo program and layout for proper use.	
When a new voting is triggered form the module, a pop up will appear with elements allowing you to set the voting settings. Other signals in this section are provided for these settings. Check the demo program and layout for proper use.	
Delegates_X	

Signals in these sections are meant to show states for the Delegate list. Check the demo program and layout for proper use.	
Request_List_X	
Signals in these sections are meant to show states for the Request list. Check the demo program and layout for proper use.	
Speaker_List_X	
Signals in these sections are meant to show states for the Speaker list. Check the demo program and layout for proper use.	
Accesspoint_List	
Signals in these sections are meant to show states for the Accesspoint list. Check the demo program and layout for proper use.	
Recording	
Recording_Enabled	For future use
PARAMETERS:	
IP Address	IPv4 address of the Televic Confero/DCerno system.
API	In order for this module to work, on the Confero/DCerno setup pages the API Type always has got to be set to "Secured API". Should you choose to upload a certificate to your Confero system, the API will communicate over HTTPS. If not, it will use HTTP. The "API" parameter on the module allows you to specify this.
AuthToken	The API Access Key as generated on the Televic Confero/Dcerno system. This is needed regardless of the "Secure API" settings.
LicenseKey	License key provided by A-Knowledge. **NOTE:** This module is hosted on the Crestron Application market as well as on our www.cresmods.com website. You can download the module from the application market and test it without a license. The module will work for 2 hours before it licenses automatically and will then block certain functionality if no valid license is entered. In order to get a license, please make an account at www.cresmods.com, which will allow you to purchase and acquire license keys. FYI, licenses

	are based on the processor's MAC address. Should you run into any problems with this, please feel free to contact us directly.
TESTING:	
OPS USED FOR TESTING	MC4 2.8005.00012
COMPILER USED FOR TESTING	SIMPL Windows 4.30
DEMO PROGRAM	Televic Confero_DCerno Demo Program V1.3
RELEASE NOTES	**V1.0** Release **V1.1** Fixed restart of long polling upon timeout. This caused communication to stop. Renamed "Secure API" parameter to "API" and updated help file to be more clear about options. **V1.2** Stability fixes regarding long polling Added "Debug" to demo program and layout Stopped "NextSpeaker" form being triggered when no request is active. **V1.3** Changed Microphone mode settings so that they would be remembered when changing Microphone mode. **V1.4** **Renamed solution and library to reflect compatibility with DCerno.** Bug fix for "unknown" seat capability Added signal for selecting a delegate and adjusting microphone sensitivity Added "Meeting_Start" Added parameters for setting microphone colors dynamically.