

CYNAP MODULE HELP FILE

WolfVision Cynap, AV clients (Crestron)



CYNAP MODULE HELP

Module name	Cynap_Client.umc, Cynap_Client.usp
Version	1.14.00
Description	<p>This document defines the common Crestron module interface for the WolfVision Cynap.</p> <p>The Cynap may be controlled using the Cynap_Client.umc module included, along with the simpl+ Cynap_Client.usp. This module requires a single Ethernet port connection from the Crestron network to the Cynap being controlled. For installations containing more than one Cynap, multiple instances of the module may be used. The communication module implements the actual Cynap protocol for communicating to the unit but exposes a more simplified protocol to the programmer.</p>
Maintainer	WolfVision GmbH
Inputs	<p>Power_On, digital Pulse to power on the device.</p> <p>Power_Off, digital Pulse to power off the device.</p> <p>Power_Toggle, digital Pulse to toggle the power of the device.</p> <p>Presentation_Mode_Open, digital Pulse to put the device into Mirror Mode Open.</p> <p>Presentation_Mode_Protected, digital Pulse to put the device into Mirror Mode Protected..</p> <p>Presentation_Mode_Toggle, digital Pulse to toggle the device between modes.</p> <p>Presentation_Snapshots_Toggle, digital Pulse to toggle the snapshots save on/off.</p> <p>Presentation_Recordings_Toggle, digital Pulse to toggle the recordings save on/off.</p> <p>Presentation_New, digital Pulse to start a new presentation.</p> <p>Presentation_End, digital Pulse to end presentation, and power off the device.</p> <p>Source_Input1, digital Pulse to create a new window with the content from HDMI 1.</p> <p>Source_Input2, digital Pulse to create a new window with the content from HDMI 2.</p> <p>Source_Browser, digital Pulse to create a new window with a browser window..</p> <p>Source_Local Drives, digital Pulse to browse the local files located on the internal harddrive and usb connected drives..</p> <p>Source_Cloud Drives, digital Pulse to browse the available cloud drives.(Dropbox and GoogleDrive).</p> <p>Source_Mirror, digital Pulse to create a new window with content from any mobile mirrored device connected.</p> <p>Source_Whiteboard, digital Pulse to create a new window with whiteboard background.</p> <p>Source_WebRTC Pulse to create a new window for video conferencing.</p> <p>Browse_Close_Windows, digital Pulse to close windows associated with browsing.</p> <p>Select_Drive, analog Send a level to select a drive.</p> <p>Local_Drive_x_Select, digital Pulse to select the drive at x location. X= 1 to 12.</p>

	<p>Cloud_Drive_Disconnect, digital Pulse to disconnect the connected cloud drive(Either dropbox or google drive while browsing that drive).</p> <p>Select_Cloud_Drive_Dropbox, digital Pulse to browse the files located on the Dropbox cloud drive.</p> <p>Select_Cloud_Drive_Google_Drive, digital Pulse to browse the files located on the Google Drive cloud drive.</p> <p>Number_of_Browse_Lines, analog Set this to define how many lines will be used and updated during browsing.</p> <p>Scroll_Bar_In, analog This signal connectos the the analog join associated with the level bar for file browsing.</p> <p>Get_Downloads, digital Pulse to get the available downloaded file list</p> <p>Back_Button, digital Pulse to go back one level while browsing files.</p> <p>Select_Browse_Line, analog Direct select of line</p> <p>Browse_Line_x_Select, digital Pulse to select the file/dir located at x point in the list. X= 1 to 12.</p> <p>Select_Download_Line, analog Direct select of line</p> <p>Browse_Download_x_Select, digital Pulse to select the file located at x point on the list. X=1 to 12.</p> <p>Active_Window_Close, digital Pulse to close the active window.</p> <p>Active_Window_Mode_Fullscreen, digital Pulse to set the active window mode to fullscreen.</p> <p>Active_Window_Mode_Normal, digital Pulse to set the active window mode to normal.</p> <p>Active_Window_Mode_Toggle, digital Pulse to toggle the active window mode between fullscreen and normal.</p> <p>Active_Window_Volume_Button, digital Pulse to activate the window volume control page.</p> <p>Active_Window_Volume_In, analog Change level to change the volume level of the active window.</p> <p>Active_Window_Mute_On, digital Pulse to set the active window mute status to On.</p> <p>Active_Window_Mute_Off, digital Pulse to set the active window mute status to Off.</p> <p>Active_Window_Mute_Toggle, digital Pulse to toggle the active window mute status between On and Off.</p> <p>Active_Window_DualScreen_Mode_On Pulse to enable the dualscreen function.</p> <p>Active_Window_DualScreen_Mode_Off Pulse to disable the dualscreen function.</p> <p>Active_Window_DualScreen_Mode_Toggle Toggles the the dualscreen function on or off.</p> <p>Window_x_Close, digital Pulse to close x window</p> <p>Window_x_Mode_Fullscreen, digital Pulse to set the window mode to fullscreen</p> <p>Window_x_Mode_Normal, digital Pulse to set the window mode to normal</p> <p>Window_x_Mode_Toggle, digital Pulse to toggle the window mode between fullscreen and normal</p> <p>Window_x_Volume_In, analog</p>
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	<p>Change level to change the volume level of the window.</p> <p>Window_x_Mute_On, digital Pulse to set the mute status to On</p> <p>Window_x_Mute_Off, digital Pulse to set the mute status to Off</p> <p>Window_x_Mute_Toggle, digital Pulse to toggle the window mute status between On and Off.</p> <p>Window_x_DualScreen_Mode_On Pulse to enable the dualscreen function for window x.</p> <p>Window_x_DualScreen_Mode_Off Pulse to disable the dualscreen function for window x.</p> <p>Window_x_DualScreen_Mode_Toggle Pulse to toggle the dualscreen function on/off for window x.</p> <p>Tools</p> <p>Master_Volume_Level_In, analog Change level to change the volume level of the system.</p> <p>Master_Volume_Mute_On, digital Pulse to set the system mute status to On</p> <p>Master_Volume_Mute_Off, digital Pulse to set the system mute status to On</p> <p>Master_Volume_Mute_Toggle, digital Pulse to toggle the system mute status between On and Off</p> <p>Recording_On, digital Pulse to start recording.</p> <p>Recording_Pause, digital Pulse to pause recording.</p> <p>Recording_Stop, digital Pulse to stop recording.</p> <p>Streaming_On, digital Pulse to start streaming.</p> <p>Streaming_Off, digital Pulse to stop streaming.</p> <p>Streaming_Toggle, digital Pulse to toggle the streaming state.</p> <p>Link_to_Stream_On, digital Pulse to show the QR Code on the display.</p> <p>Link_to_Stream_Off, digital Pulse to hide the QR Code on the display.</p> <p>Link_to_Stream_Toggle, digital Pulse to toggle the QR Show state.</p> <p>Freeze_On, digital Pulse to freeze the main screen.</p> <p>Freeze_Off, digital Pulse to unfreeze the main screen.</p> <p>Freeze_Toggle, digital Pulse to toggle the freeze state.</p> <p>Take Snapshot, digital Pulse to take a snapshot of the Cynap screen.</p> <p>Close_All_Windows, digital Pulse to close all open content windows.</p> <p>Edit Bar Buttons Pulsing any of the Edit Bar buttons will send that command to the active window only.</p> <p>Power, digital Visualizer power on/off function.</p> <p>Light, digital</p>
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	<p>Pulse to toggle the Visualizer lights on/off.</p> <p>Zoom_out, digital Visualizer, Browser, Doc, PDF, Calc, Pres</p> <p>Zoom_In, digital Visualizer, Browser, Doc, PDF, Calc, Pres</p> <p>Back, digital Browser</p> <p>Forward, digital Browser</p> <p>FullPage, digital Doc, PDF, Calc</p> <p>FullWidth, digital Doc, PDF, Calc</p> <p>FullHeight, digital PDF</p> <p>ArrowDown, digital Browser, Doc, PDF, Calc, Pres</p> <p>ArrowUp, digital Browser, Doc, PDF, Calc, Pres</p> <p>ArrowLeft, digital Browser, Doc, PDF, Calc, Pres</p> <p>ArrowRight, digital Browser, Doc, PDF, Calc, Pres</p> <p>Previous, digital Image, Doc, Calc, Pres</p> <p>Rewind, digital Video</p> <p>StepBack, digital Image, Doc, Calc, Pres</p> <p>Stop, digital Video</p> <p>Play, digital Video</p> <p>Pause, digital Video</p> <p>StepForward, digital Image, Doc, Calc, Pres</p> <p>FastForward, digital Video</p> <p>Next, digital Doc, Calc, Pres, Image</p> <p>Reload, digital Browser</p> <p>WWW, digital Only used for displaying keyboard</p> <p>Focus_Near, digital Visualizer control</p> <p>Focus_Far, digital Visualizer control</p> <p>Auto_Focus, digital Visualizer control</p> <p>Freeze, digital Visualizer control</p> <p>Preset_Recall, digital Visualizer control</p> <p>Preset_Save, digital Visualizer control</p> <p>Browser_URL_Text, serial String to be used when a keyboard is active. This string is used only with the browser window to input web addresses.</p> <p>BrowserURLEnter, digital Pulse, tied to the enter from the Keyboard to send the string</p> <p>SendCommand, serial</p>
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	<i>A passthrough to send commands directly to the Cynap.</i>
Outputs	<p>Link_Established_Fb, digital <i>Shows whether an Ethernet link is established to the Cynap or not.</i></p> <p>Valid_Login, digital <i>Shows whether the admin password is correct or not.</i></p> <p>BoxName, serial <i>Text used to display the name of the Cynap unit</i></p> <p>Show_PIN_code, digital <i>Displays a popup page when a PIN Code is available.</i></p> <p>PIN_Code, serial <i>Text used to display the PIN code.</i></p> <p>Show_Busy_Subpage <i>This signal will go high is the system is processing a lot of information and slowing down.</i></p> <p>Power_On_Fb, digital <i>Indicates that the power is on.</i></p> <p>Power_Off_Fb, digital <i>Indicates that the power is off.</i></p> <p>Presentation_Mode_Open_Fb, digital <i>Indicates that the mode is Open.</i></p> <p>Presentation_Mode_Protected_Fb, digital <i>Indicates that the mode is Protected.</i></p> <p>Presentation_Snapshots_Fb, digital <i>Indicates the state of the toggle.</i></p> <p>Presentation_Recordings_Fb, digital <i>Indicates the state of the toggle.</i></p> <p>Input1/2_Type, analog <i>Value of what input 1/2 icon type is.</i></p> <p>Input1/2_Name, serial <i>Text of what input 1/2 has been set to.</i></p> <p>Input1/2_Enabled, digital <i>This will be set to low if there is no connected source on the input. (Beta)</i></p> <p>Source_Cloud_Visible, digital <i>This signal will go high when the system allows at least one cloud drive to be shown.</i></p> <p>Source_Mirror_Visible, digital <i>This signal will go high when in the Protected Mode</i></p> <p>Source_Mirror_Waiting, digital <i>This signal will go high when the mirror stream is open and allows for a morror connection to be established.</i></p> <p>Browse_Local_Drives_Subpage_Fb, digital <i>This signal will go high while browsing the local drives.</i></p> <p>Local_Drive_x_Show <i>X will go high is there is a valid drive to be displayed</i></p> <p>Local_Drive [x] Text, serial <i>Text for the the listed drives 1-12.</i></p> <p>Local_Drive [x] Type, analog <i>Value for the the listed drives 1-12. (USB, Local, Cloud...)</i></p> <p>Browse_Cloud_Drives_Subpage_Fb, digital <i>This signal will go high while browsing the cloud drives.</i></p> <p>Show_Disconnect_Button, digital <i>This signal will go high while browsing the cloud drives.</i></p> <p>Show_Select_Dropbox, digital <i>This signal will go high if dropbox is allowed to be shown for selection.</i></p> <p>Cloud_Drive_Dropbox_Status, analog</p>

	<p><i>Status of the dropbox connection. (0-disconnected, 1-Authentication, 2-Connected, 3-Failed, 4-Synced</i></p> <p>Show_Select_GoogleDrive, digital This signal will go high if googledrive is allowed to be shown for selection.</p> <p>Cloud_Drive_GoogleDrive_Status, analog <i>Status of the dropbox connection. (0-disconnected, 1-Authentication, 2-Connected, 3-Failed, 4-Synced</i></p> <p>Browse_Files_Subpage_Fb, digital Will go high when browsing a drives file system</p> <p>Number_of_Total_Files, analog Number of files in a directory</p> <p>Scroll_Bar_Out, analog The output level of the scroll bar</p> <p>Browse_List_Drive_type, analog A value to know if we are browsing local or cloud drive</p> <p>Browse_List_Header_Text, serial Text displaying back 2 levels in the file structure</p> <p>Back_Button_Text, serial Text displaying the previous file structure</p> <p>Browse_Line_x_Enabled, digital <i>This signal will go high if the file/dir is valid</i></p> <p>Browse_Line_x_Text, serial Text string for the x number file/dir</p> <p>Browse_Line_x_Icon, analog Value for the Icon preview</p> <p>Browse_Download_x_Show, digital <i>This signal will go high is the Browse_Line_x_Select can be downloaded from the cloud drive.</i></p> <p>Number_Of_Active_Windows, analog <i>Value of the current number of active windows in use</i></p> <p>Active_Window, analog <i>Value of the currently selected active window</i></p> <p>Active_Window_Mode_Fullscreen_Fb, digital <i>High if active window is fullscreen</i></p> <p>Active_Window_Mode_Normal_Fb, digital <i>High if active window is normal</i></p> <p>Active_Window_Volume_Subpage, digital <i>High if active window volume button was toggled on to display volume subpage</i></p> <p>Active_Window_Volume_Button_Show, digital <i>High if active window has volume controls associated with its type</i></p> <p>Active_Window_Mute_Button_Show, digital <i>High if active window has volume controls associated with its type</i></p> <p>Active_Window_Volume_Out, analog <i>Volume level of the current active window</i></p> <p>Active_Window_Mute_On_Fb, digital <i>High if active window mute is on</i></p> <p>Active_Window_Mute_Off_Fb, digital <i>High if active window mute is off</i></p> <p>Window_x_Selected_Fb, digital <i>High is the window x is the currently selected window</i></p> <p>Window_x_Visible_Fb, digital <i>High if the window has a valid source</i></p> <p>Window_x_Source_Text, serial <i>Text name of the valid source</i></p> <p>Window_x_Source_Type, analog <i>Value of the valid source</i></p> <p>Window_x_Mode_Fullscreen_Fb, digital</p>
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	<p>High if active window is fullscreen Window_x_Mode_Normal_Fb, digital High if active window is normal Window_x_Volume_Out, analog Volume level of the current active window Window_x_Mute_On_Fb, digital High if active window mute is on Window_x_Mute_Off_Fb, digital High if active window mute is off Window_x_DualScreen_Mode_On_Fb High if the dualscreen function is on for window x. Window_x_DualScreen_Mode_Off_Fb High if the dualscreen function is off for window x.</p> <p>Tools Master_Volume_Level_Out, analog Value of the system volume level Master_Mute_On_Fb, digital High if the system mute is on Master_Mute_Off_Fb, digital High if the system mute is off</p> <p>Recording_Enabled_Fb, digital Indicates that recording is enabled. Recording_Disabled_Fb, digital Indicates that recording is disabled. Recording_On_Fb, digital Indicates that recording is on. Recording_Pause_Fb, digital Indicates that recording is paused. Recording_Stop_Fb, digital Indicates that recording is stopped.</p> <p>Streaming_Enabled_Fb, digital Indicates that streaming is enabled. Streaming_Disabled_Fb, digital Indicates that streaming is disabled. Streaming_Off, digital Indicates that streaming is off. Streaming_Auto, digital Indicates that streaming is on in Auto Mode. Streaming_Continuous, digital Indicates that streaming is on in Continuous Mode. Streaming_Unicast, digital Indicates that streaming is on in Unicast Mode.</p> <p>Link_To_Stream_On_Fb Indicates that the QR-code stream is being broadcast. Link_To_Stream_Off_Fb Indicates that the QR-code stream is not being broadcast.</p> <p>Freeze_On_Fb, digital Indicates that the main screen Freeze is active. Freeze_Off, digital Indicates that the main screen Freeze is NOT active.</p> <p>Edit bar buttons show EditBar_Active, digital Display the EditBar popup.</p> <p>The following signals are used to define what functions are available, in the edit bar, pr. active window.</p>
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	<p>Power_Available, digital Light_Available, digital Zoom_out_Available, digital Zoom_In_Available, digital Back_Available, digital Forward_Available, digital FullPage_Available, digital FullWidth_Available, digital FullHeight_Available, digital ArrowDown_Available, digital ArrowUp_Available, digital ArrowLeft_Available, digital ArrowRight_Available, digital Previous_Available, digital Rewind_Available, digital StepBack_Available, digital Stop_Available, digital Play_Available, digital Pause_Available, digital StepForward_Available, digital FastForward_Available, digital Next_Available, digital Reload_Available, digital WWW_Available, digital Focus_Near_Available, digital Focus_Far_Available, digital Auto_Focus_Available, digital Freeze_Available, digital Preset_Recall_Available, digital Preset_Save_Available, digital</p> <p>Browser_Keyboard_Show, digital High is the keyboard subpage should be shown Window_Data_Available, digital High is the there is data to be shown in the edit bar window Window_Data, serial Text for extra data for the EditBar.</p>		
Parameters	<p>Server_IP IP Address of cynap unit Password Admin password for cynap unit (default cynap password is :Password)</p> <p>MAC_Address MAC Address for cynap unit, input in Crestrons hex formatting, (\x before each part of the mac address. No spaces, dashes or colons/)</p>		
Version History	<p>Version</p> <p>1.00.00</p> <p>1.12.00</p> <p>1.14.0</p>	<p>Date</p> <p>010415</p> <p>080716</p> <p>160916</p>	<p>Remarks</p> <p>Initial structure.</p> <p>Updates for firmware 1.06 release</p> <p>Fixes and updates to new features</p>
Advisories/remarks	<p>Please note the Cynap can (currently) only handle a total of 499 user files(Documents, Pictures, Movies, etc.). Have more files might cause unexpected results.</p> <p>Cynap streaming services can cause significant traffic which might interfere with the Crestron processor. It is highly advised to follow Crestron's Ethernet network guide lines in any setup.</p>		
Dependencies	Cynap_Client.umc, Cynap_client.usp		
Firmware	V1.06f		
Processor support	2-Series, not currently supported.		

	<i>3-Series, support.</i>
Hardware setup/settings	N/A