Name:
Intercom (GUI Model) GUI Interface

Summary:
This module serves as the location GUI. Anything and everything pertaining to the location will be sent and received by this module. Many of the GUI interfaces for Intercom supported touchpanels are similar. Below, a set of signals are defined that can appear on a GUI module. Not all GUI modules include all the listed signals.

General Notes:
This module is part of a set of modules available to simplify Intercom programming. The other modules in the set are:

Intercom Manager
Intercom IADS GUI Interface
Intercom IVDS GUI Interface
Intercom TPS-12 (Ethernet) GUI Interface
Intercom TPMC-8X GUI Interface
Intercom TPMC-8L GUI Interface
Intercom TPMC-3X GUI Interface
Intercom TPMC-4SM GUI Interface
Intercom DGE-1 (Ethernet) GUI Interface
Intercom TPS-6L (Ethernet) GUI Interface
Intercom C2N-IIF GUI Interface
Barix GUI Interface

Inputs/Outputs/Parameters:

Inputs:

< Available_Mode> < Privacy_Mode> < Busy_Mode> < DND_Mode>	Sets the location status.
< Answer_Incoming_Call>	Answer a call request.
< Dismiss_Incoming_Call>	Dismiss a call request
< End_Current_Call>	End current call.

< Clear_Error_Message>	Clears an error message subpage and sets the output signal <Show_Error_Subpage> low..
< Talk>	Set signal high (1d) to enable microphone and mute speakers on the location. Set to low (0d) to mute microphone and enable speakers.
< Listen>	Set signal high (1d) to mute microphone and enable the speakers at the location.
< On_Main_Menu> < On_Call_Screen> < On_Settings_Page>	Connect to digital feedback signals corresponding to those assigned to the following pages in the display project: Main Page Call Screen Audio Settings
< Interrupt_Mode_On/Off>	Sets the location to allow interrupt messages to be visible.
< Accept_Interrupt>	Accept an incoming interrupt alert.
< Scroll_First>	Scroll to the top of the location list.
< Scroll_Previous>	Scroll up by one page.
< Scroll_Next>	Scroll down by one page.
< Scroll_End>	Scroll to the end of the location list.
< Scroll_Line_Up>	Scroll up one line at a time.

< Scroll_Line_Down>	Scroll down one line at a time.
< Scroll_Select>	Select currently scrolled item.
< Location_Select_Line_1> - < Location_Select_Line_10>	Selects the corresponding location to connect to.
< All_Audio_On > - < All_Audio_Off >	Turns touchpanel ALL Audio on/off.
< WAV_On > - < WAV_Off >	Turns touchpanel WAV audio on/off.
< WAV_Volume_Up > - < WAV_Volume_Down >	Increases/decreases touchpanel WAV volume level
< All_Audio_Volume_Up > - < All_Audio_Volume_Down >	Increases/decreases touchpanel ALL audio volume level
< Mic_On > - < Mic_Off >	Turns touchpanel microphone on/off.
< Mic_Volume_Up > - < Mic_Volume_Down >	Increases/decreases touchpanel microphone volume level
< Monitor_Select_Line_1> - < Monitor_Select_Line_10>	Enables monitoring of corresponding location. Press and release to activate monitoring. Press and release again to end monitoring.
< Page_Selected_Line_1> - < Page_Selected_Line_10>	Set to high (1d) to page corresponding location. High/1 = Page; Low/0 = End Page
< Page_Group_1> - < Page_Group_6>	Set to high (1d) to page corresponding group. Groups 1-5 are user set at program time. Group 6 is and ALL page.
<Barix_Info_In>	*(Only on VoIP GUI interfaces)* Connect this signal to the <Barix_Info_Out> signal on the *Barix GUI Interface.* This will

	allow communication to and from the Barix device via the GUI module. The GUI interface will use this signal to receive all information from the Barix device and send it over to the *Intercom Manager*.
<UI_Info_In>	Connect this signal to any of the <UI_1_Information_OUT> - <UI_24_Information_OUT> signals on the *Intercom Manager*. This will designate this GUI as an intercom location. Example: If this signal is connected to <UI_2_Information_OUT>, the GUI will be identified as location 2 in the manager. The GUI interface will use this signal to receive all information from the *Intercom manager*.
< Barix_Line_In_Level_Up>	Increase Barix audio streaming device line in volume by 1d.
< Barix_Line_In_Level_Dn>	Decrease Barix audio streaming device line in volume by 1d.
< Barix_Output_Vol_Level_Up>	Increase Barix audio streaming device output volume by 1d.
< Barix_Output_Vol_Level_Down>	Decrease Barix audio streaming device output volume by 1d.
< Monitor_Interrupt_1> - < Monitor_Interrupt_10>	Enables monitoring of corresponding interrupt location. Press and release to activate monitoring. Press and release again to end monitoring.

Outputs:

< Active>	Indicates whether the hardware device is online. High/1 = Online; Low/0 = Offline
< Available_Mode_fb> < Privacy_Mode_fb> < Busy_Mode_fb> < DND_Mode_fb>	Indicates the currently set location status.
< Show_Group_Page_List>	Shows group paging subpage.
< Show_Main_Menu>	Feedback to flip to Main Menu.
< Show_Waiting_For_Reply_Subpage>	Shows a subpage when requesting a call.
< Show_Call_Screen>	Feedback to flip to Call Screen.
< Show_Error_Subpage>	Shows a subpage when an error during the connection process occurs.
< Talk_fb>	Indicates the location is currently in Talk mode (microphone enabled and speakers muted) and is sending audio/video streams.
< Listen_fb>	Indicates the location is currently in Listen mode (microphone muted and speakers enabled) and is receiving audio/video streams.
< Error_Message_Text>	Description of error that occurred as a result of a failed connection. This signal will be populated when < Show_Error_Subpage> is high (1d).
< Show_Incoming_Call_Subpage>	Shows a subpage when an incoming call request is active.
< Show_Connecting_Subpage>	Shows a subpage when location is establishing a connection.

< Show_Disconnecting_Subpage>	Shows a subpage when a location is closing a connection.
< Show_Video>	Shows a the MPEG (TPMC) or video (TPS) window.
< Current_Location_Name>	Contains the name of the current location.
< Currently_Connected_To_Name>	Contains the name of the location that is currently connected to this location.
< Connecting_Status_Text>	Displays connection status during the connection process.
< Doorbell_Interrupt_Mode_Active>	Indicates the location is allowing interrupt alerts.
< Show_Doorbell_Interrupt_Subpage>	Shows a subpage when an interrupt alert is active.
< Show_Busy_Subpage>	Shows a subpage when a request is made to a location that is currently not accepting any incoming calls.
< Scroll_First_Fb>	Indicates a scroll to the top of the location list.
< Scroll_Previous_Fb>	Indicates a scroll up by one page in the location list.
< Scroll_Next_Fb>	Indicates a scroll down by one page in the location list.
< Scroll_End_Fb>	Indicates a scroll to the end of the location list.
< Scroll_Line_Up_Fb>	Indicates a scroll up by one line in the location list.

< Scroll_Line_Down_Fb>	Indicates the scroll down by one line in the location list.
< Scroll_Select_Fb>	Indicates currently scrolled location list item was selected.
< Audible_Alert>	Pulses when the location receives an incoming connection request and < Privacy_Mode_fb> is not high (1d).
< Location_Line_1_Selected> - < Location_Line_10_Selected>	Indicates corresponding location is selected.
< Current_Location_Status>	Specifies current location status. Range: 0d – 26d 0d – Available 1d – Privacy 2d – DND 3d – Calling 4d – HandsFree 5d – Doorbell 6d – InACall 7d – CalledInPrivacy 8d – CalledInDND 9d – Paging 10d – ConnectionPending 11d – Connecting 12d – DisconnectPending 13d – Disconnecting 14d – DisconnectedFromUI 15d – ListenFromUI 16d – TalkFromUI 17d – ConnectedFromUI 18d – ManualListenFromUI 19d – ManualTalkFromUI 20d – ConnectingFromUI 21d – DisconnectingFromUI 22d – TerminateConnectionsFromUI 23d – Monitoring 24d – Monitored 25d – BeingPaged 26d – Interrupt

< Location_1_Status> - < Location_5_Status>	Specifies location status of the location list item. See <Current_Location_Status> for expected values.
< Location_Name_Line_1> - < Location_Name_Line_5>	Contains the name of the corresponding list item.
< Show_Monitoring_Subpage>	Shows a subpage when location is monitoring.
< Monitor_Select_Line_1_fb> - < Monitor_Select_Line_10_fb>	Indicates corresponding location is being monitored by this location.
< Page_Select_Line_1_fb> - < Page_Select_Line_10_fb>	Indicates corresponding location is being paged by this location.
< Page_Group_1_fb> - < Page_Group_6_fb>	Indicates corresponding group is being paged by this location.
<Video_Stream_IP>	*(Only on VoIP GUI interfaces)* Contains the IP address of the video source. The format follows that needed by the MPEG viewer embedded on TPMC touchpanels.
<Video_Stream_URL>	*(Only on VoIP GUI interfaces)* Contains the URL command of the video source. The format follows that needed by the MPEG viewer embedded on TPMC touchpanels.
<Barix_Info_Out>	*(Only on VoIP GUI interfaces)* Connect this signal to the <Barix_Info_In> signal on the *Barix GUI Interface.* This will allow communication to and from the Barix device via the GUI module. The GUI interface will use this signal to receive all information from the *Intercom Manager* and send it over to the Barix device.

< Group_Location_Name_Line_1> - < Group_Location_Name_Line_24>	Contains the location names of each location within the group paged. *Future use*
<UI_Info_Out>	Connect this signal to any of the <UI_1_Information_IN> - <UI_24_Information_IN> signals on the *Intercom Manager*. This will designate this GUI as an intercom location. Example: If this signal is connected to <UI_2_Information_IN>, the GUI will be identified as location 2 in the manager. The GUI interface will use this signal to send all information to the *Intercom manager*.
< Show_Barix_To_Switcher_Volume_Control>	*(Only on VoIP GUI interfaces)* Show a subpage that allows for the increase or decrease of the Barix Output volume control.
< Show_Barix_To_TPMC_Volume_Control>	*(Only on VoIP GUI interfaces)* Show a subpage that allows for the increase or decrease of the Barix Line In volume control.
< Interrupt_Monitor_1_Fb> - < Interrupt_Monitor_10_Fb>	Indicates corresponding Interrupt location is being monitored by this location.
< Barix_Line_In_Level>	Specifies the current line in volume level of the Barix device.
< Barix_Output_Vol_Level>	Specifies the current output volume level of the Barix device.
{{(GUI_Model)_>> xxxxx}}	Signals with this format connect directly to the GUI hardware device. More information can be read under the specific hardware device help notes.

Parameters:

Format	Indicates whether the location can accept audio or video connections. 1d – Both Audio and Video 2d – Audio Only 3d – Video Only The *Intercom Manager* will use this value to determine whether to route IADS/IVDS inputs to outputs when this location is connected to another location. And also, whether to send audio/video information to the GUI itself.
Location Name	The name identifying this location. This name will be routed to all locations through the *Intercom Manager*
Group 1- 5	Indicate if this location is part of the group by selecting Yes (1d). If not part of the group, select No (0d).
Scroll List Size	Indicates the number of scroll items. Values must be integers within the range 1-24.
Location 1 Hide/Show – Location 24 Hide/Show	Indicates whether to show or hide the corresponding location on this location. The location represented by this module and any Interrupt locations are always hidden regardless of this property.
Startup Line Volume	Line Volume level to be set on startup of system. Range: 0% - 100%
Startup Audio Volume	ALL Volume level to be set on startup of system. Range: 0% - 100%
Startup WAV Volume	WAV Volume level to be set on startup of system. Range: 0% - 100%
Startup Key Click Volume	Key Click Volume level to be set on startup of system. Range: 0% - 100%

Talk On Threshold Value Talk On Threshold Time Talk Off Threshold Value Talk Off Threshold Time Listen On Threshold Value Listen On Threshold Time Listen Off Threshold Value Listen Off Threshold Time	*(Only on VoIP GUI interfaces)* These values set the time and value at which the microphone and speakers are enabled and disabled on the TPMC touchpanel. Very high values for threshold time and threshold value are set by default to allow for the ability to manually enable the microphone and speakers by triggering < Talk> and <Listen>. Range: 0 – 100d (Threshold Times – 100d = 10s) 0 – 9999d (Threshold Values)
{{xxxxx_>>_(GUI_Model)}}	Signals with this format connect directly to the GUI hardware device. More information can be read under the specific hardware device help notes.

Revision History:

Version 1.0.0 – Initial Release