



Manufacturer: Shure
Model: Wireless Microphone Systems
Device Type: Microphone

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GENERAL INFORMATION	
Q-SYS PLUGIN NAME	Shure Wireless Microphone Systems
VERSION	1.0
AUTHORED BY	Control Concepts, Inc.
SUMMARY	Use this Q-SYS plugin to control Shure Wireless Microphone Systems devices in Q-SYS Designer. Monitor and update network information and other device settings. Settings include gain, mute behavior, and channel information.
GENERAL NOTES	This plugin is designed to support the following models: • QLXD4 • SLXD4 • SLXD4D • ULXD4 • ULXD4D • ULXD4Q The SLX-D series blocks third party control by default. To enable third party control, use the front panel to navigate to (Advanced Settings > Controller Access).
DEVICE USED FOR TESTING	Q-SYS Core 110f (v9.10.0) Shure QLX-D firmware version: 2.7.1.0 Shure SLX-D firmware version: 1.2.10.0 Shure ULX-D firmware version: 2.8.6.0



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INITIAL SETUP

PROPERTIES

Model: Select the model the plugin will connect to. Valid models are:

- QLXD4 [Default]
- SLXD4
- SLXD4D
- ULXD4
- ULXD4D
- ULXD4Q

Meter Update Rate (ms): Set the rate for metering updates. Default is 500ms. Valid values are 100-10000. It is recommended to keep this value at 500ms or slower.

Debug Level: Indicates the specificity level of messages that appear in the debug window. The options include:

1- *Off*: No messages will be printed. [Default]

2- *Device Communication*: Only messages related to commands going to/coming from physical devices will be printed.

3- *Troubleshooting*: All internal messages will be printed.

Log Debug Messages: Indicates whether to also save any messages that are printed to the debug window to the internal Q-SYS processor's logs. [Default: False]

ESTABLISHING CONNECTION

This plugin has three ways of establishing a connection:

1. During design time, set up your programming to input the IP address and port information of your device. Device will connect automatically.
2. During run time, select the device to connect to from the auto-discovery dropdown box. The plugin can only discover devices on the local network.
3. During run time, keep the auto-discovery dropdown selection on "Manual" and enter the IP address and port into the fields provided on the plugin.

All methods of connecting will persist through reboots and design pushes.



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PLUGIN CONTROLS (Setup)

Auto-Discovery	Provides a list of "Manual" and discovered Shure devices on the local network that match the model of this plugin. Each discovered device will only show if the model matches the model type of the plugin. Select a device from the dropdown menu to connect and control. <i>[Both String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Manual-Entry IP Address	If Auto-Discovery is set to "Manual" this address will be used for device connection. <i>[Both String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Status	Indicates the plugin status. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Is Communicating	Indicates the plugin established a connection with the device. <i>[Output Boolean]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Is Initialized	Indicates the plugin has synced all states from the device. <i>[Output Boolean]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Control Network IP Address	Reports the control IP address of the device connected. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Control Network Subnet	Reports the control subnet of the device connected. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Control Network Gateway	Reports the control gateway of the device connected. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Control Network MAC Address	Reports the control MAC address of the device connected. <i>[Output String]</i>



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	<i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Device Name	Indicates the control network device name. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Device Model	Indicates the model. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Firmware	Indicates the firmware version of the device. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
RF Band	Indicates the RF Band of the device. <i>[Output String]</i> <i>[Supported By Receiver Families: SLX-D]</i>
Identify	Flashes device status LEDs and reflects the current state. <i>[Input Boolean]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Meter Enable	Toggles metering of all channels on/off. When enabled, the metering will occur at the speed specified in the properties. <i>[Both Boolean]</i> <i>[Supported By Receiver Families: SLX-D, ULX-D]</i>



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PLUGIN CHANNEL CONTROLS

Channel Name	Indicates the current channel name. Read only. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Gain Fader	Controls the gain of the channel and reports the current gain. Valid values are -18 to 42. <i>[Both Number]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Gain Text	Controls the gain of the channel and reports the current gain in dB. Valid values are -18 to 42. <i>[Both String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Gain Increase	Trigger to increase the channel gain by 1 dB. <i>[Input Boolean]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Gain Decrease	Trigger to decrease the channel gain by 1 dB. <i>[Input Boolean]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Meter	When metering is enabled, this reports the RMS meter of this channel. <i>[Output Number]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Mute	Toggles channel mute and reports the current mute state. <i>[Both Boolean]</i> <i>[Supported By Receiver Families: ULX-D]</i>
Channel Transmitter Model	Indicates the connected transmitter model. Read only. <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Transmitter Battery Bars	Indicates the connected transmitter battery bars. Values are 0-5. <i>[Output Number]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>



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Channel Transmitter Battery Minutes Remaining	Indicates battery minutes remaining or battery status for the connected transmitter. The possible status messages are: "Comm Warning", "Time Calculating", "Unknown" <i>[Output String]</i> <i>[Supported By Receiver Families: QLX-D, SLX-D, ULX-D]</i>
Channel Transmitter Mute Status	Indicates the connected transmitter mute status. This is only supported by transmitters ULXD1, ULXD2, ULXD6, and ULXD8. <i>[Output Boolean]</i> <i>[Supported By Receiver Families: QLX-D, ULX-D]</i>
Channel Transmitter Firmware	Indicates the firmware version for the connected transmitter. <i>[Output Boolean]</i> <i>[Supported By Receiver Families: ULX-D]</i>
Channel Audio Switch	Indicates the current channel audio switch. <i>[Output Boolean]</i> <i>[Supported By Receiver Families: SLX-D]</i>



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KNOWN ISSUES

No known issues.

ADDITIONAL INFORMATION

Change Log	v1.0 – Initial Release
Support	Company: Shure Email: support@shure.com