# Soundtube DSM-16 Q-SYS Plugin v1.0 Help

The SoundTube DSM-16 is a full featured system manager for Dante end point distributed audio systems. Part of the SoundTube Dante ecosystem, it is designed to bridge the gap between conventional distributed audio system and enterprise systems using powerful DSP's. It incorporates features needed for applications ranging from small, installed systems to large, sophisticated installations.

The Soundtube DSM-16 Q-SYS Plugin provides the control points that are available in the Admin and Zone user sections of the DSM-16 Web User Interface.

## Index

## Requirements

## Q-SYS

- QDS Version 9.10 or later

## Configuration Overview

- **Setup of DSM-16:**

  It is recommended to configure the DSM-16 and test using the DSM-16 Web UI before controlling it with the Q-Sys plugin. The plugin references the names of the configured zones and sources for control.

  At least one preset must configured in order for the plugin to initialize. Ensure that presets are setup in a way that recalling different presets will not affect the naming of zones or zone sources.

- **Setup of Q-SYS Plugin:**

  - Install the plugin.
    - Double click on the Soundtube.DSM16.Qsys.qplugx2 file.
    - Select yes on the prompt to install it in the plugin directory.
  - In Q-SYS Designer, drag the plugin into the design.
  - Select the plugin and go to the plugin Properties:
    - **Num Zones**
      - Set to the number of zones that you want to control. Range is 1 to 16.
  - Start the design and enter the IPAddress of the DSM-16 initiate connection.
  - Once the Plugin Information section statuses are green:
    - Go to the ZONES tab and map the plugin zones to the DSM-16 zones, by selecting from the zone list in the Zone combo box. Once the zone is mapped the corresponding controls will update to control the mapped zone.

## Properties

**Num Zones**
Type: Integer Default Value: 1
Range: 1 - 16 Determines how many zone items will be available for mapping.

**Debug Level**
Type: Enumerator
Default Value: Off
Options: Off, Device Communication, Troubleshooting

**Debug Output**
Type: Enumerator
Default Value: Console

Options: Console (prints in the debug output window only), Console and Log (prints in the Manager log as well as output window)

**Show Debug**

Type: Boolean

Default Value: No

Options: Yes, No

Select 'Yes' to show the Debug Output window. For details, see the Debug Output topic in the Q-SYS Help.

# Controls

## Setup Page

**IPAddress**

*Text Entry*

Enter the IP Address of the device.

**Plugin Version**

*Indicator Text*

Reports the full version of the plugin.

**Communicating**

*Indicator LED*

Led is green when the plugin is communicating with device.

**Initialize**

*Indicator LED*

Led is green when the plugin has successfully queried for and received all required feedback.

**Status**

*Status Box*

Reports the QREM status.

## Zones Page

**Zone X**

*Combo Box*

Maps the DSM-16 zone to the Zone X controls/pins using the DSM-16 zone name.

**Source**

*Combo Box*

Lists the available DSM-16 sources configured for the mapped zone. Sets and reports the active source on the mapped DSM-16 zone by source name reference.

### Vol Down

*Button Momentary*

Decreases the volume level of the mapped DSM-16 zone while the state is true.

### Vol Level

*Fader Slider*

Sets and reports the volume level of the mapped DSM-16 zone.

### Vol Up

*Button Momentary*

Increases the volume level of the mapped DSM-16 zone while the state is true.

### Vol Mute Toggle

*Button Toggle*

Sets and reports the mute state of the mapped DSM-16 zone.

### Vol Mute On

*Button Trigger*

Sets the mute on state of the mapped DSM-16 zone.

### Vol Mute Off

*Button Trigger*

Sets the mute off state of the mapped DSM-16 zone.

### Bass

*Knob*

Sets and reports the bass gain level of the mapped DSM-16 zone 3-band eq.

### Mid

*Knob*

Sets and reports the mid gain level of the mapped DSM-16 zone 3-band eq.

### High

*Knob*

Sets and reports the high gain level of the mapped DSM-16 zone 3-band eq.

### Group

*Combo Box*

Sets and reports the active group on the mapped DSM-16 zone by group name reference.

## Global Page

### Group X Level

*Fader Slider*

Sets and reports the volume level of the group. The DSM-16 only accepts a volume level change if at least one is grouped to that zone.

**Load Preset**

*Combo Box*

Recalls the preset on the DSM-16.

# Control Pins

## Connection

| Pin Name | Value | String | Position | Pin Available |
|---|---|---|---|---|
| IP Address | - | (text) | - | Input/Output |
| Is Communicating | 0 | true | 0 | Output |
| | 1 | false | 1 | |
| Is Initialized | 0 | true | 0 | Output |
| | 1 | false | 1 | |
| Status | 0 | OK (Green) | - | Output |
| | 1 | Compromised (Orange) | | |
| | 2 | Fault (Red) | | |
| | 3 | Not Present (Gray) | | |
| | 4 | Missing (Red) | | |
| | 5 | Initializing (Blue) | | |

## Groups

| Pin Name | Value | String | Position | Pin Available |
|---|---|---|---|---|
| Group 1 Vol Level | 0 - 100 | 0 - 100 | 0 - 1 | Input/Output |
| Group 2 Vol Level | 0 - 100 | 0 - 100 | 0 - 1 | Input/Output |
| Group 3 Vol Level | 0 - 100 | 0 - 100 | 0 - 1 | Input/Output |

## Preset

| Pin Name | Value | String | Position | Pin Available |
|---|---|---|---|---|
| Load Preset | - | (text) | - | Input |

## Zone 1 - 16

| Pin Name | Value | String | Position | Pin Available |
|---|---|---|---|---|
| Eq Bass | 0 - 100 | 0 - 100 | 0 - 1 | Input/Output |

| Pin Name | Value | String | Position | Pin Available |
|---|---|---|---|---|
| Eq Mid | 0 - 100 | 0 - 100 | 0 - 1 | Input/Output |
| Eq High | 0 - 100 | 0 - 100 | 0 - 1 | Input/Output |
| Group | - | (text) | - | Input/Output |
| Name | - | (text) | - | Input/Output |
| Source | - | (text) | - | Input/Output |
| Vol Up | 0<br>1 | true<br>false | 0<br>1 | Input |
| Vol Down | 0<br>1 | true<br>false | 0<br>1 | Input |
| Vol Level | 0 - 100 | 0 - 100 | 0 - 1 | Input/Output |
| Vol Mute Toggle | 0<br>1 | true<br>false | 0<br>1 | Input/Output |
| Vol Mute On | 0<br>1 | true<br>false | 0<br>1 | Input/Output |
| Vol Mute Off | 0<br>1 | true<br>false | 0<br>1 | Input/Output |

## Other

| Pin Name | Value | String | Position | Pin Available |
|---|---|---|---|---|
| Disable* | 0<br>1 | disabled<br>enabled | 0<br>1 | Input/Output |

*Use this control pin to enable or disable the plugin in your design. When Disabled is set to enabled (value of 1), the Connection Status changes to "Not Present - Disabled".

## Notes

The plugin references the names of the configured zones and sources for control. At least one preset must configured in order for the plugin to initialize. Ensure that presets are setup in a way that recalling different presets will not affect the naming of zones or zone sources.

## Troubleshooting

- If the Status section does not have green leds with status OK. There is an issue that needs to be resolved.

- Stop the design and go to the plugin properties.
- Set *Debug Level* to *Troubleshooting*.
- Set *Debug Output* to *Console and Log*.
- Set *Show Debug* to *Yes*.
- Start the design and watch the debug output to view the reported errors.
- If the errors are login related, verify that your login credentials are correct.
- If you need further assistance, send the logs with a description of the issue to the developer contact below.

# Contact Information

**Control Concepts, Inc.**
*Plugin Developer*
support@controlconcepts.net

# Test Environment Information

**Hardware and Firmware**

- Q-SYS Core 100f
- Soundtube DSM-16 (V)

**QDS Version**

- 9.10.2

# Plugin Version Information

**v1.0**
Initial release