Lab.gruppen

D Series Q-SYS™ Plugin

Quick Start Guide

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lake

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Quick Start Guide

Introduction

The Lab.gruppen D Series Plugin for QSC® Q-SYS™ Designer software makes it is easy to integrate D Series and PLM+ Series amplifiers into any Q-SYS project. It allows for control and monitoring of multiple functions.

Plugin Compatibility

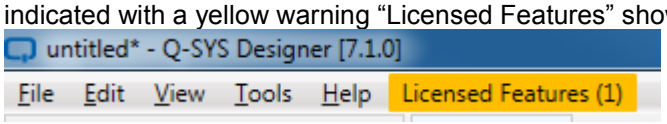
Hence the name, D Series, this version supports all D Series Lake (D10:4L, D20:4L, D40:4L, D80:4L, D120:4L and D200:4L) **and** all PLM+ Series (PLM5K44, PLM12K44 and PLM20K44) amplifiers.

Lake Controller

The Plugin can run at the same time as an online Lake Controller is connected and also controlling/monitoring the same amplifier. Any changes done in Lake Controller will sync back to Q-SYS and vice versa.

Q-SYS Core Requirements

Plugins use the Q-SYS Scripting Engine, which is a licensed feature on certain Cores manufactured with Q-SYS 7.0 and later. These require activating a license to deploy the plugin to a Core. This is indicated with a yellow warning “Licensed Features” shown in the top:



Pushing a design requiring licensing to an unlicensed core, will give an error message and the design will not be transferred.
The license is a once per Core, so once the Scripting License is installed, it is possible run as many plugins or scripts desired.

Please refer to QSC for further help and info regarding this.

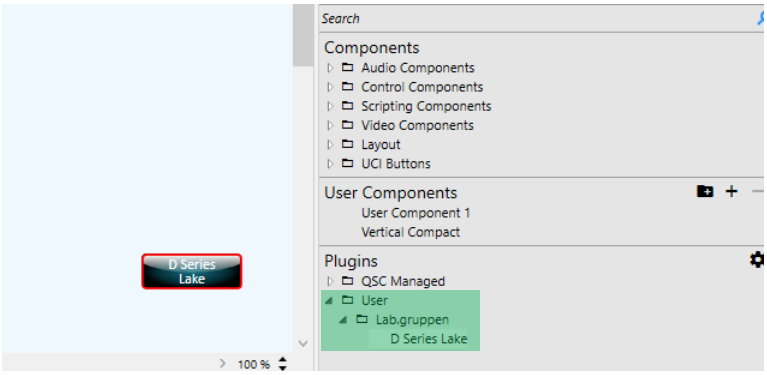
Getting started

Installation of the Plugin

1. Download and install the *Q-SYS Designer software* version 7 or later from the QSC website.
2. Install the **D Series Lake.qplug** by double clicking the file and confirm the installation.

Add a D Series component to the Schematic *[NOT runtime]*

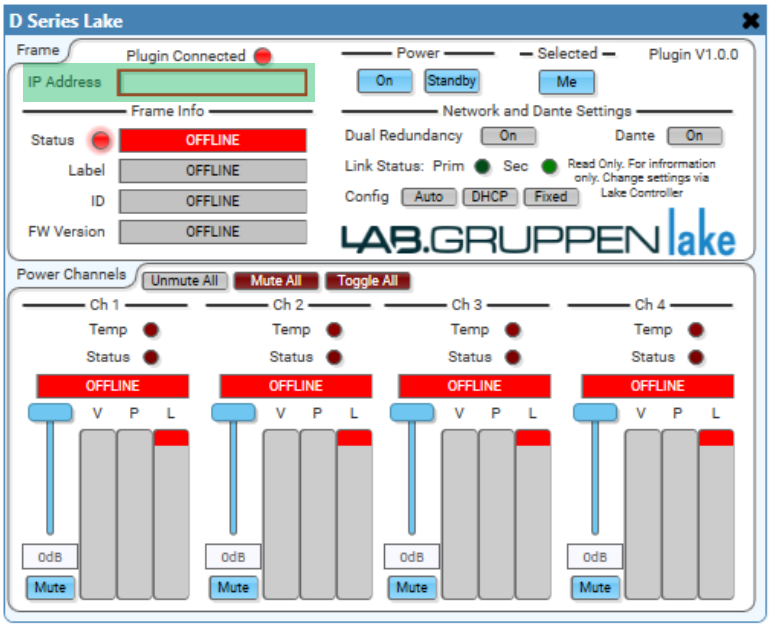
3. After the installation of the **D Series Lake.qplug,** the Plugin is available from within the Q-SYS Designer software under *Plugins → User → Lab.gruppen → D Series*.
4. Take the component and place it in the Schematic:



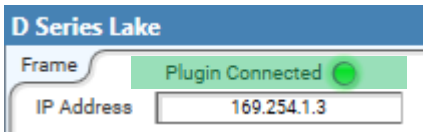
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Connect to an online Amplifier *[runtime]*

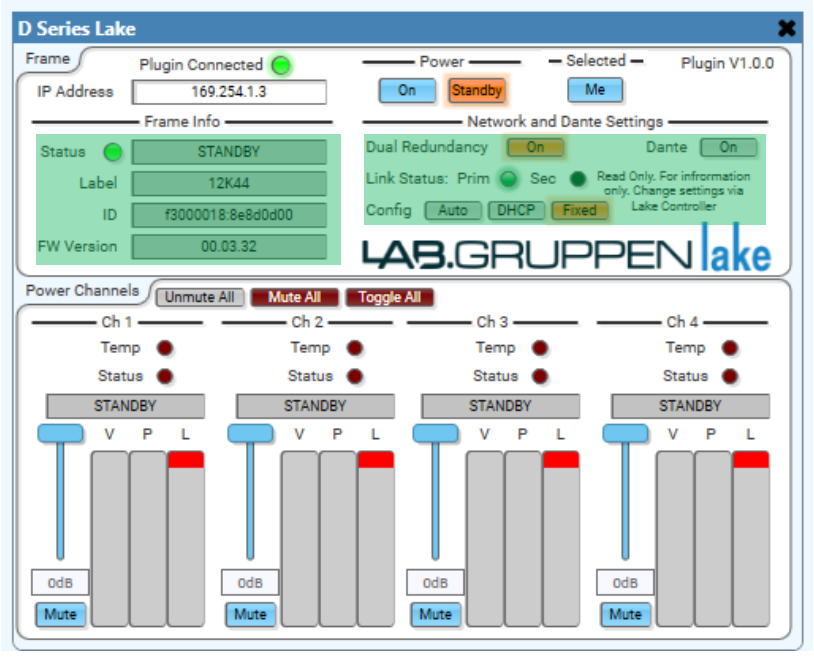
5. Match the name and model of the Q-SYS Core and do a *File → Save to Core and run*
6. Double click on the component to expand the controls. Now while in **Runtime**, specify the IP address of the Online amplifier (the amplifier can be in Standby or On, but must be on the network and in the same subnet as the Q-SYS Core) in the **IP Address** field:



7. If a device can be found on the IP address, the plugin will connect. This is indicated by the “Plugin Connected” LED lit Green.



8. Once connected to a device, all the Read only fields will be populated with data



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Plugin Overview

Properties and Pins *[NOT runtime]*

Properties

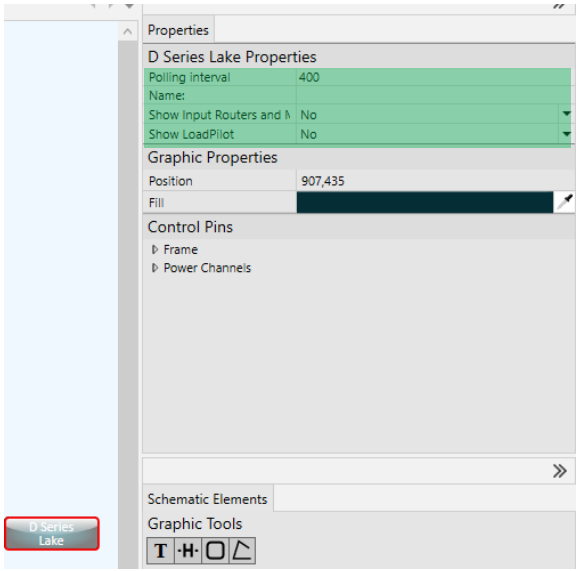
9. If in runtime, disconnect from Core by doing *File → Disconnect.* When in design (**not runtime**) you have access to the properties and control pin tabs. In the properties section it is possible to change;

    a. *Polling interval:* specifies the time on how often the plugin communicates with the amplifier in milliseconds (interval is 400 to 1000 ms).
    The lower settings may work well depending on the size of the system and the characteristics of the network. If an amplifier's response is glitchy, unresponsive or amplifier control is not reliable, try increasing the polling interval to improve reliability. This will however increase the delay in both set and get data.

    b. *Name:* The name that is displayed on the component in the Design. This will not display the Frame Label, but it is recommended to name it to the same as the Frame Label.

    c. *Show Input Routers and Mixers:* Will display the section for Input Routers and Mixer control

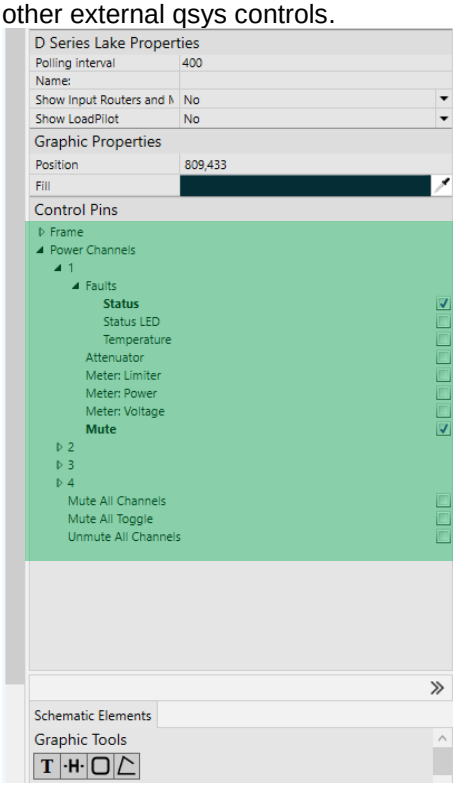
    d. *Show LoadPilot:* Will display the section for LoadPilot



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Control pins

10. In the Control Pins section it is possible to enable read/set values of controls from the plugin with other external qsys controls.



Show Input Routers and Mixers

11. Set “Show Input Routers and Mixers” to Yes will add the “Input Routers and Mixer” view. This view adds control of the Input routers as well as the Module Input Mixers.

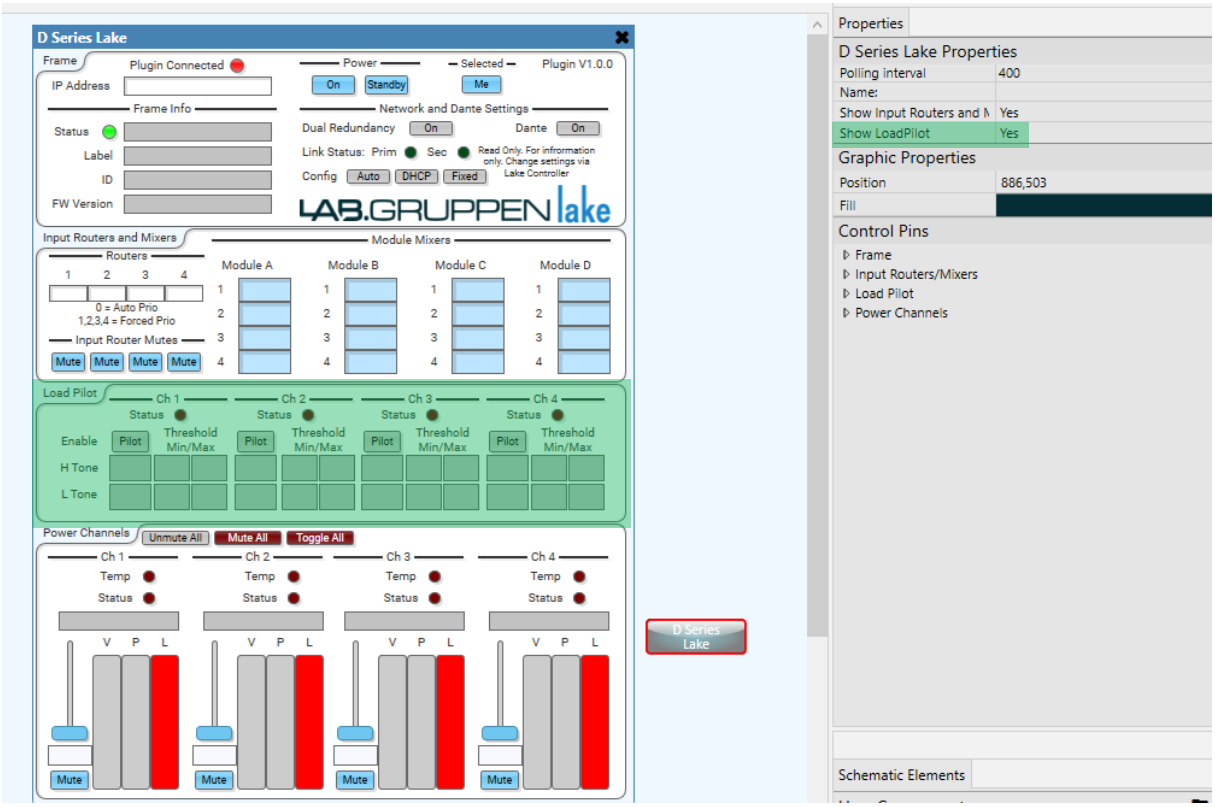


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Show Load Pilot

12. Set “Show LoadPilot” to Yes will add the LoadPilot view. This will present the current configuration of LoadPilot and give status of connected load as well as presenting the impedance of the connected load.

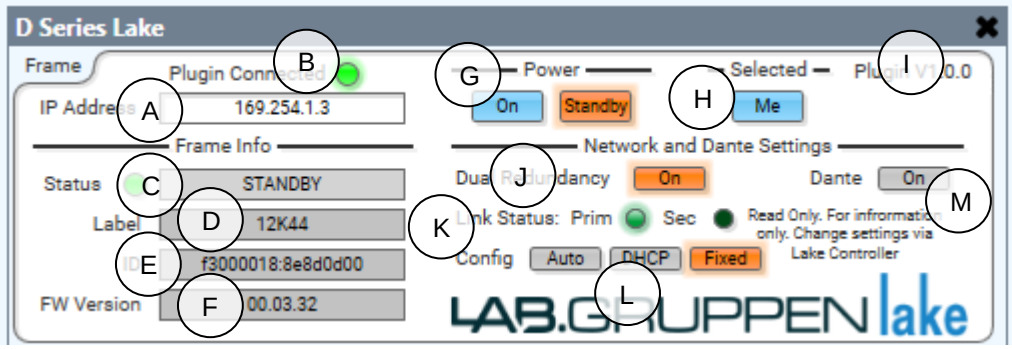
Note: LoadPilot cannot be enabled from the Q-SYS Plugin. Enabling LoadPilot is done from the Lab.gruppen CAFÉ software (available from the Lab.gruppen website). Once LoadPilot is enabled, all LoadPilot data is displayed within Q-SYS and also accessible via Control pins.



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Component User Interface

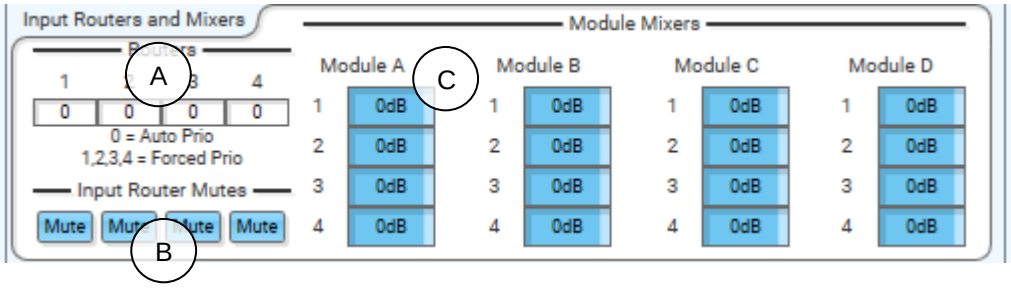
Frame



Label	Function	Description
A	IP Address field	Enter the amplifiers IP address
B	Plugin Connected LED	Green indicates that an amplifier has been found on the IP address entered. Red indicates plugin not connected to an online amplifier. Amplifier can be ON or in Standby.
C	Status LED and Display	If the LED is green, then there are no faults or warnings present and the device is Online on the network. It can be either in Standby or On, this is indicated on the adjacent Status Display. The display will be green when the device is On and there are no faults present (grey when the device on online but in Standby). If the LED is red, then there are faults or warnings present on the amplifier. The Status Display will specify the exact fault (what also can be seen in the Lake Controller (or on the Front panel as with a PLM+). The display will be red if there are faults present as well to highlight that there is a present fault.
D	Frame Label	Displays the frames label of the amplifier. This is set in the Lake Controller
E	Frame ID	Displays the Frames ID
F	Firmware Version	Displays the current firmware on the amplifier
G	Power On / Standby	Indicates the current power state of the amplifier with Orange. It is possible to change power state by clicking the expected power state.
H	Select Me	This will lit the Select LED on the front panel (see Operations manual of the product for further information). It will also select the amplifier in an online Lake Controller.
I	Plugin Version	The version of the plugin
J	Dual Redundancy	Will indicate in Orange if Dual Redundancy is enabled. This can be controlled from the Lake Controller.
K	Link Status	Primary and Secondary Ethernet connectors link status. If the device have Dual Redundancy disabled, only the Prim connector can be lit (the Secondary is disabled also if the actual Secondary port is used for Daisy chaining). When the Device have Dual Redundancy enabled, the Sec will indicate if it has connection.
L	Config Auto, DHCP or Fixed	This will indicate the current IP Configuration the device has. This is changed from the Lake Controller.
M	Dante On / Off	Will indicate in Orange if Dante is enabled. This can be controlled from the Lake Controller.

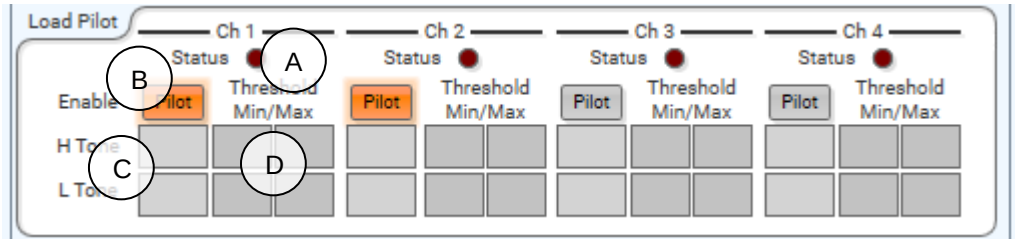
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Input Routers and Mixers



Label	Function	Description
A	Force Router Priority	Control of the Input Router Priority. Here it is possible to go between Auto or Force a specific priority. 1 = force Prio 1 2 = force Prio 2 3 = force Prio 3 4 = force Prio 4 0 = Enable Auto Select Mode
B	Input Router Mute	Mutes the router. Blue = unmuted, red = muted
C	Module A,B,C,D Input Mixers	Mix Input Router 1-4 from – 100dB to 15dB for any Module. *Note: This is not dynamic, i.e. when using a A/B or C/D module where Input Mixer B and D is not available all 4 will still be displayed, but in that case use the Input Mixer for A / C.*

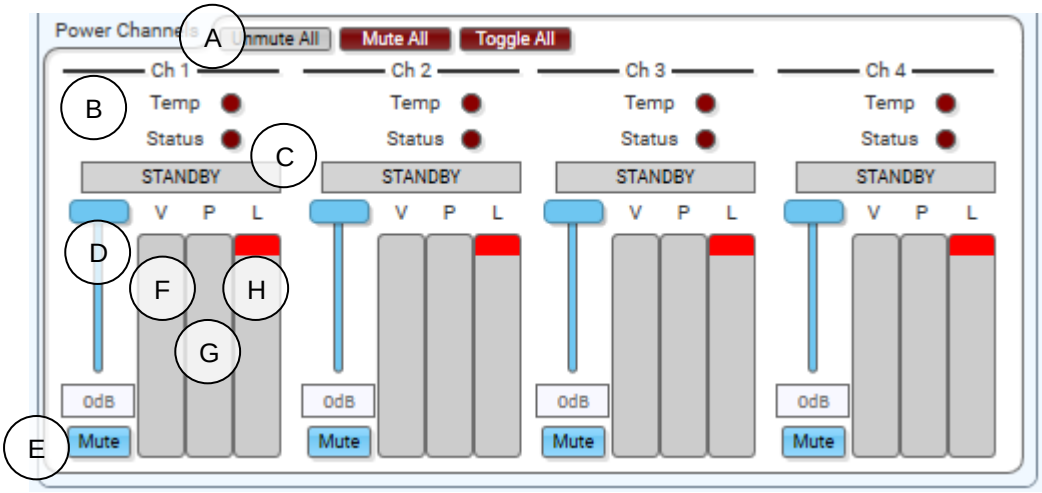
LoadPilot



Label	Function	Description
A	Status LED	If the LED is on then there is a fault related to the LoadPilot. Look in the respective channel status display available in the Power Channels section for further details. Frame must be On for LoadPilot to work.
B	Enabled	Indicates in Orange if LoadPilot is enabled. This is read only indication, LoadPilot can only be enabled from the CAFÉ Software (available on the Lab.gruppen website).
C	High and Low Tone Readings	Displays the current Impedance reading of the High and Low tone. Will indicate in red if the impedance is outside the thresholds. Frame must be On for LoadPilot to work
D	High and Low Tone Min/Max Thresholds	Displays the Min/Max Impedance thresholds of the High and Low tone. Frame must be On for LoadPilot to work

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Power Channels



Label	Function	Description
A	Unmute All, Mute All and Toggle All	Unmute All will unmute all Power Channel mutes Mute All will mute all Power channels Toggle All will toggle the mute state of all channels.
B	Temperature LED	Yellow if Warning, Red if Fault
C	Status LED and Display	If the LED is green, then there are no faults or warnings present and the device is Online on the network. It can be either in Standby or On, this is indicated on the adjacent Status Display. The display will be green when the device is On and there are no faults present (grey when the device on online but in Standby). If the LED is red, then there are faults or warnings present on the amplifier. The Status Display will specify the exact fault (what also can be seen in the Lake Controller (or on the Front panel as with a PLM+). The display will be red if there are faults present as well to highlight that there is a present fault. Status Display will be red if there is a fault present on the channel and green if there are none. This includes Load Pilot faults but excludes Frame faults. Like the frame display this display will also be grey if no faults are present but the frame is in standby mode.
D	Attenuator	Power channel attenuation, from – 100dB to 0dB.
E	Mute Channel	Power channel mute, Blue if unmuted, red if muted.
F	V Meter	Displays the current Voltage. Frame must be on for this to be true.
G	P Meter	Power Meter. Frame must be on for this to be true.
H	L Meter	ISVPL Limiter Meter. Frame must be on for this to be true.

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Support

If assistance is required, please contact Lab.gruppen CARE on *care@musictribe.com* for further help.

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