Partner: Lab.Gruppen
Model: Nomadlink Amplifier
Device Type: Logic

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GENERAL INFORMATION:

SIMPLWINDOWS NAME:	"LabGruppen Nomadlink Amplifier v1.0.umc"
CATEGORY:	Logic
VERSION:	V 1.0
SUMMARY:	The "LabGruppen Nomadlink Amplifier v1.0.umc" macro is a logic macro that can only be used in combination with the "LabGruppen NLB-60E v1.0.umc" macro. The "LabGruppen Nomadlink Amplifier v1.0.umc" macro represents an amplifier that is connected on a subnet of amplifiers controlled by the Lab.Gruppen NLB-60E.
GENERAL NOTES:	The "LabGruppen Nomadlink Amplifier v1.0.umc" macro is a logic macro that can only be used in combination with the "LabGruppen NLB-60E v1.0.umc" macro. The "LabGruppen Nomadlink Amplifier v1.0.umc" macro represents a nomadlink amplifier that is connected on a subnet of amplifiers controlled by the Lab.Gruppen NLB-60E. The "LabGruppen Nomadlink Amplifier v1.0.umc" can turn on/off the device. Every channel can be separately muted or unmated. The macro also offers the possibility to poll the mute state of the channels and to poll the overall state of the device. The **Status Poll Interval** and **Mute Status Poll Interval** parameters can be used to set the time between two poll requests.
CRESTRON HARDWARE REQUIRED:	Pro2 processor with a Ethernet card
SETUP OF CRESTRON HARDWARE:	The pro2 processor is set to the same subnet range as the NLB-60E and connected on the same subnet.
VENDOR FIRMWARE:	n/a
VENDOR SETUP:	The amplifiers are connected with the NLB-60E using the Nomadlink in and out ports. Connecting the amplifiers creates a daisy-chain from the NLB-60E to the amplifiers.
CABLE DIAGRAM:	Standard CAT5 cable

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CONTROL:

Power_On	D	Pulse to power the amplifier.
Power_Off	D	Pulse to turn off the amplifier.
Toggle_Power	D	Pulse to toggle the power state of the amplifier.
Mute_Channel_A	D	Pulse to mute channel A.
UnMute_Channel_A	D	Pulse to unmute channel A.
Toggle_Mute_Channel_A	D	Pulse to toggle the mute state of channel A.
Mute_Channel_B	D	Pulse to mute channel B.
UnMute_Channel_B	D	Pulse to unmute channel B.
Toggle_Mute_Channel_B	D	Pulse to toggle the mute state of channel B.
Mute_Channel_C	D	Pulse to mute channel C.
UnMute_Channel_C	D	Pulse to unmute channel C.
Toggle_Mute_Channel_C	D	Pulse to toggle the mute state of channel C.
Mute_Channel_D	D	Pulse to mute channel D.
UnMute_Channel_D	D	Pulse to unmute channel D.
Toggle_Mute_Channel_D	D	Pulse to toggle the mute state of channel D.
Mute_Channel_E	D	Pulse to mute channel E.
UnMute_Channel_E	D	Pulse to unmute channel E.
Toggle_Mute_Channel_E	D	Pulse to toggle the mute state of channel E.
Mute_Channel_F	D	Pulse to mute channel F.
UnMute_Channel_F	D	Pulse to unmute channel F.
Toggle_Mute_Channel_F	D	Pulse to toggle the mute state of channel F.
Mute_Channel_G	D	Pulse to mute channel G.

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UnMute_Channel_G	D	Pulse to unmute channel G.
Toggle_Mute_Channel_G	D	Pulse to toggle the mute state of channel G.
Mute_Channel_H	D	Pulse to mute channel H.
UnMute_Channel_H	D	Pulse to unmute channel H.
Toggle_Mute_Channel_H	D	Pulse to toggle the mute state of channel H.
Enable_Mute_Status_Polling	D	Keep this signal high to enable mute status polling.
Refresh_Mute_Info	D	Pulse to refresh the mute info.
Enable_Status_Polling	D	Keep this signal high to enable status polling.
Refresh_Status_Info	D	Pulse to refresh the status info.
RX$	S	To be connected with the correct From_Amplifier_x serial signal on the LabGruppen NLB-60E v1.0 symbol.

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FEEDBACK:

Power_Is_On		High to indicate that the amplifier is powered.
Power_Is_Off		High to indicate that the amplifier is not powered.
Channel_A_Is_Muted	D	High to indicate that channel A is muted.
Channel_A_Is_UnMuted	D	High to indicate that channel A is unmuted.
Channel_B_Is_Muted	D	High to indicate that channel B is muted.
Channel_B_Is_UnMuted	D	High to indicate that channel B is unmuted.
Channel_C_Is_Muted	D	High to indicate that channel C is muted.
Channel_C_Is_UnMuted	D	High to indicate that channel C is unmuted.
Channel_D_Is_Muted	D	High to indicate that channel D is muted.
Channel_D_Is_UnMuted	D	High to indicate that channel D is unmuted.
Channel_E_Is_Muted	D	High to indicate that channel E is muted.
Channel_E_Is_UnMuted	D	High to indicate that channel E is unmuted.
Channel_F_Is_Muted	D	High to indicate that channel F is muted.
Channel_F_Is_UnMuted	D	High to indicate that channel F is unmuted.
Channel_G_Is_Muted	D	High to indicate that channel G is muted.
Channel_G_Is_UnMuted	D	High to indicate that channel G is unmuted.
Channel_H_Is_Muted	D	High to indicate that channel H is muted.
Channel_H_Is_UnMuted	D	High to indicate that channel H is unmuted.
[Device_Is_OK]	D	High when the device state is OK.
[Device_Is_Faulty]	D	High when the device state is Faulty.
[Device_Info_Text]	S	Serial string containing the device state.
[Power_State_Is_OK]	D	High when the power state is OK.

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[Power_State_Is_Warning]	D	High to indicate that the power state is warning.
[Power_State_Is_Faulty]	D	High to indicate that the power state is faulty.
[Power_State_Text]	S	Serial string containtin the power state of the device. Possible values: OK, Warning, Faulty
[PAL_State_Is_Inactive]	D	High to indicate that the PAL state is inactive
[PAL_State_Is_active]	D	High to indicate that the PAL state is active
[PAL_State_Text]	S	Serial string containing the PAL state for the device.
[Channel_X_Attenuation_Text]	S	Serial string containing the attenuation value of channel X.
[Channel_X_VPL_Is_Not_Active]	D	High to indicate that VPL is not active for channel X.
[Channel_X_VPL_Is_Active]	D	High to indicate that VPL is active for channel X.
[Channel_X_VPL_Text]	S	Serial string containing the VPL state of channel X.
[Channel_X_CPL_Is_Not_Active]	D	High to indicate that CPL is not active for channel X.
[Channel_X_CPL_Is_Active]	D	High to indicate that CPL is active for channel X.
[Channel_X_CPL_Text]	S	Serial string containing the CPL state of channel X.
[Channel_X_VHF_Fault_is_Present]	D	High to indicate that a VHF fault is present for channel X.
[Channel_X_VHF_Fault_is_Not_Present]	D	High to indicate that a VHF fault is present for channel X.
[Channel_X_VHF_Fault_Text]	S	Serial string containing the state of the VHF fault on channel X. values: present, not present
[Channel_X_DC_Fault_is_Not_Present]	D	High to indicate that a DC fault is not present for channel X.
[Channel_X_DC_Fault_is_Present]	D	High to indicate that a DC fault is present for channel X.
[Channel_X_DC_Fault_Text]	S	Serial string containing the state of the VHF fault on channel X. values: present, not present
[Channel_X_LS_Fault_is_Not_Present]	D	High to indicate that a Load Shorted fault is not present for channel X.
[Channel_X_LS_Fault_is_Present]	D	High to indicate that a Load Shorted fault is present for channel X.
[Channel_X_LS_Fault_Text]	S	Serial string containing the state of the Load Shorted fault on channel X.

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		values: present, not present
[Channel_X_Temp_Fault_is_Not_Present]	D	High to indicate that a Temperature fault is not present for channel X.
[Channel_X_Temp_Fault_is_Present]	D	High to indicate that a Temperature fault is present for channel X.
[Channel_X_Temp_Fault_Text]	S	Serial string containing the state of the Temperature fault on channel X. values: present, not present
[Channel_X_HI_Warning_is_Not_Present]	D	High to indicate that a High impedance warning is not present for channel X.
[Channel_X_HI_Warning_is_Present]	D	High to indicate that a High impedance warning is present for channel X.
[Channel_X_HI_Warning_Text]	S	Serial string containing the state of the High impedance warning on channel X. values: present, not present
[Channel_X_Temp_Warning_is_Not_Present]	D	High to indicate that a Temperature warning is not present for channel X.
[Channel_X_Temp_Warning_is_Present]	D	High to indicate that a Temperature warning is present for channel X.
[Channel_X_Temp_Warning_Text]	S	Serial string containing the state of the Temperature warning on channel X. values: present, not present
TX$	S	To be connected with the To_Amplifier serial signal on the LabGruppen NLB-60E v1.0 symbol.

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PARAMETERS:

Device Name	S	The name of the amplifier.
Status Poll Interval	Sec	The time between two status update requests.
Mute Status Poll Interval	Sec	The time between two mute status update requests.

TESTING:

OPS USED FOR TESTING:	V. 4.001.1012
SIMPL WINDOWS USED FOR TESTING:	V. 2.11.18
CRESTRON DB USED FOR TESTING:	V. 20.05.022.00
DEVICE DB USED FOR TESTING:	V. 21.00.007.00
SAMPLE PROGRAM:	“LabGruppen NLB-60E v1.0 PRO2 Demo.smw”
REVISION HISTORY:	V. 1.0

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