

Customizing (hardware) DALI® group assignment.

Overview

From version 16.5.0 of GoldenGate and O.S. version 23.9.0 of DGQG02/04, it is now possible to define which DALI group configured in GoldenGate will be assigned to a physical/hardware DALI group on DALI® bus.







The DALI® protocol allows up to 16 physical/hardware DALI® groups. These physical/hardware DALI® groups allow to address/control several DALI® slaves to give them the same value at once.

If a Domintell DALI® group is not associated to a physical/hardware DALI® group, each slaves will be set to the desired value one by one and this will be visually noticeable which is not very comfortable. The use of DALI® groups allows to get rid of this visual/feeling annoyance.

Specifications/Limitations

- **GoldenGate 16.5.0** or higher is required.
- New options are available for DALI® groups : Domintell DALI® groups can now be automatically, never or always associated to physical/hardware DALI® group.
- GoldenGate can not create physical/hardware DALI® groups across several DALI® bus. A Domintell DALI® group that contains slaves that belong to several DINTDALI01 interfaces will not be associated to a physical/hardware DALI® group.
- It is not possible to assign more than 16 physical/hardware DALI® group per DALI® bus or DINTDALI01 interface. This is a DALI® protocol limitation. So if there are two DALI® buses (DINTDALI01 interfaces), it will be possible to create up to **16 physical/hardware DALI® groups on each** DALI® bus (DINTDALI01 interface).

How to identify the type of group

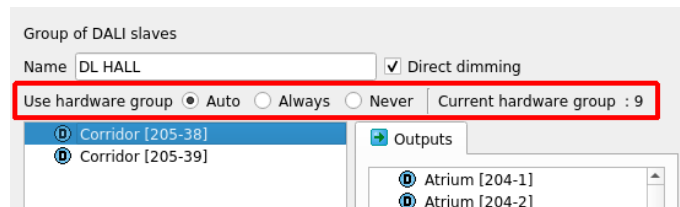
-  /  : Classic/Mixed Domintell groups are identified by these icons. Note: A classic/mixed Domintell group will not/never be associated to a physical/hardware DALI® group and will not offer dimming actions.
-  /  : Domintell DALI® groups. Each slaves contained in this group are controlled individually when the group is turned on/off or dimmed.
-  /  : Physical/Hardware DALI® groups. All slaves contained in this DALI® group are controlled at the same time.

How to configure a DALI® group

Before version 16.5.0 of GoldenGate, physical/hardware DALI® groups were assigned in the order they were created in GoldenGate. It was not possible to define which Domintell DALI® group should absolutely be converted to physical/hardware DALI® groups.

From version 16.5.0 of GoldenGate, it is now possible to define which Domintell DALI® group should be converted to physical/hardware DALI® groups in priority.

When a DALI® group is created or edited, new controls are available just below the name of the group



- **Auto** : a physical/hardware DALI® group will be assigned if there is still one available physical/hardware DALI® group after all Domintell DALI® groups defined to "Always" mode has been processed.
- **Always** : this DALI® group must be associated in priority to a physical/hardware DALI® group. Once all Domintell DALI® groups defined as "Always" has been associated to a physical/hardware DALI® group (**in the limit of the 16 physical/hardware DALI® groups**), Domintell DALI® groups defined as "Auto" will be processed.
- **Never** : this Domintell DALI® group will never be associated to a physical/hardware DALI® group.
- **Current hardware group** : shows the physical/hardware DALI® group associated to this Domintell DALI® group (will be a number between 1 to 16). When '-' (dash/minus sign) is displayed, a new Domintell DALI® group is being created and needs to be validated (click on OK to confirm creation) or an existing Domintell DALI® group is edited but no physical/hardware DALI® group is associated because no more physical/hardware DALI® groups are available or Domintell DALI® group is defined to "Never".
- **Direct dimming** (GoldenGate v17.5.0 or newer is required) : when this option is selected, outputs of the DALI group will not be synchronized to the level of first output of the group when a dimming function is started. Enabling/Checking this option can improve user experience when DALI groups are dimmed.

In the following screenshot, there are 18 Domintell DALI® groups but only 16 of them can be assigned to a physical/hardware DALI® group.



"DALI FF" has been set to "Never" mode and "DL ATTIC", "DL STUDY", "DL OFFICE", "DL LIVING", "DL CELLAR", "DL HALL" and "DL BED" have been set to "Always" mode. All others Domintell DALI® groups have been set to "Auto" mode.

So, all these Domintell DALI® groups have been first allocated to a physical/hardware DALI® group then all remaining Domintell DALI® groups set to "Auto" mode have been processed ("DL BED 4", "DL BED 3", ...).

"FF LANDING" has been automatically assigned to physical/hardware DALI® group 16. So there are no more available physical/hardware groups that can be assigned to "DL BED 2 ENS" Domintell DALI® group.

Important note: Do not forget to send the application to DGQG to apply modifications.