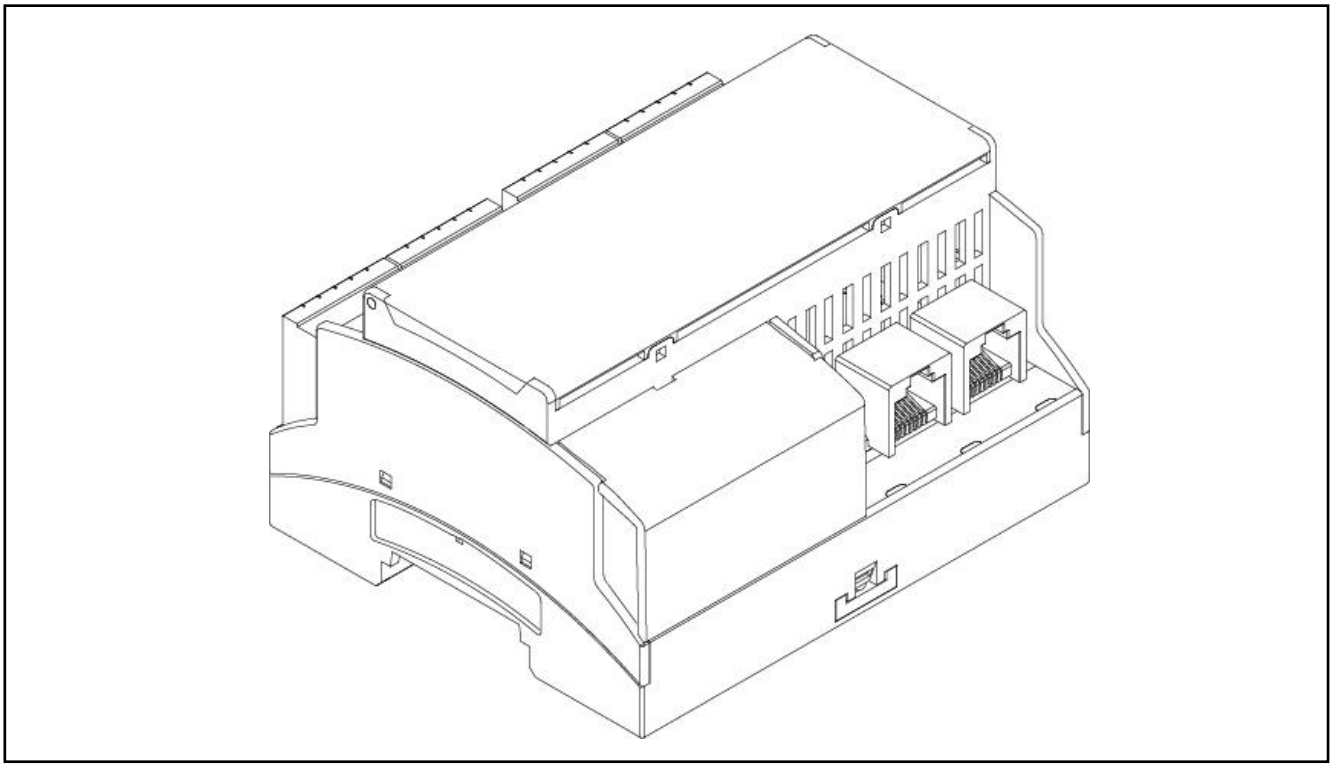
Smart By Silent Gliss KNX ETS Guide

July 2019



SG11261 KNX Gateway

Silent Gliss
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Content

Related Documents

1.

Revision History

Rev	Name	Date	Comments / Changes
A.00	Chris Perkins	20/06/19	Created
A.01	Chris Perkins	24/06/19	Edited assuming ETS knowledge
A.02	Jason Frost	28/10/19	Edited

1. Introduction

This KNX ETS Guide describes the configuration options available to the KNX Smart gateway.
This guide assumes user knowledge of ETS and will therefore not describe how to connect the Smart Gateway to other KNX devices.

1.1. Importing the Test Project into ETS

Import the test project "Test Project SG-KNX-GW.knxproj" into ETS5.
The project contains a single Smart Gateway device with no Topology, GROUP Addresses or additional devices.

1.2. Smart Gateway Properties

Catalogue	
Smart Gateway	Silent Gliss International Ltd
Order Number	SG101126100
DIN Rail Mounting	108mm (6M)
Bus Current	3mA
Application	
Manufacturer	Silent Gliss International Ltd
Application	SG-KNX-GW
Device Type	$0001
Program Version	0.1
Certification	Certified 03/10/2019
Certification no	516/15773/19

1.3 Device Information

General	
Mask Version	07B0h (System B)
Device Manufacturer	Silent Gliss International Ltd
Order Number	101126100
Serial Number	0204:000 NNNNN where: 0204 is the manufacturers code (Silent Gliss International Ltd) 000 is fixed NNNNN is last 5 digits of gateway serial number
Hardware Type	00 0204 00 0001 where: 00 is fixed 0204 is the manufacturers code (Silent Gliss International Ltd) 00 is fixed 0001 is the Device Type (Smart KNX Gateway)
Firmware Version	1.5
Programming Mode	State of the programming button

Application Program	
Application Program 1	Silent Gliss International Ltd 0001 V0.1 where: 0001 is the Device Type (Smart KNX Gateway) V0.1 is the application version
Application Program 2	Not Used

1.4 GROUP Objects

The KNX Gateway supports group objects defined by the "Shutters and Blinds Actuator" Application Specification.
For the KNX Gateway, the following datapoints are supported:

Datapoint		Description/Remarks	Datapoint Type		LOCATION	GROUP
Inputs						
Move UpDown	MUD	To move sunblind up (“0”) and down (“1”).	DPT_UpDown (1.008) 1 bit	Supported	✓	✓
StopStep UpDown	SSUD	To stop the sunblind and to step it up/down.	DPT_Step (1.007) 1 bit	Supported on LOCATIONS; only stop (not step) supported on GROUPS.	✓	✓
Dedicated Stop	STOP	To stop the sunblind.	DPT_Trigger (1.017) 1 bit	Supported	✓	✓
Set Absolute Position Blinds Percentage	SAPBP	To move the sunblind into a specified position	DPT_Scaling (5.001) 1 byte	Supported	✓	✓
Scene Control	SC	The input shall be used to move the sunblind to a scene position as well as to save the current position as part of a scene.	DPT_SceneControl (18.001) 1 byte	Supported, but only for 8 scenes (equivalent to GW presets)	✓	✓
Outputs						
Info Move Up Down	IMUD	To indicate the last moving direction	DPT_UpDown (1.008) 1 bit	Supported	✓	✓
Current Absolute Position Blinds Percentage	CAPBP	To indicate the current position of the sunblinds in percentage	DPT_Scaling (5.001) 1 byte	Supported on LOCATIONS only	✓	✗

Inputs

1.4.1.1 Move UpDown

Moves the blind/curtain LOCATION/GROUP up (“0”) or down (“1”).
The blind/curtain will move between the endstops configured with the Web GUI.

1.4.1.2 StopStep UpDown

Single steps the blind/curtain LOCATION up (“0”) or down (“1”).
GROUPs do not have a step function, so the command will stop the GROUP.
The blind/curtain will move between the endstops configured with the Web GUI.

1.4.1.3 Dedicated Stop

Stops a moving LOCATION/GROUP.

1.4.1.4 Set Absolute Position Blinds Percentage

Moves the blind/curtain into a specified percentage position, where 0% = open, 100% = close.

1.4.1.5 Scene Control

Top bit indicates learn (1) or activate (0); the lower 3 bits indicate the scene number.

The Gateway presets 1-8 map directly to KNX scenes 0-7.

Presets can be set through the Gateway web GUI, or with a KNX Controller. It is not possible to set presets through the ETS Parameter settings.

1.4.2 Outputs

1.4.2.1 Info Move Up Down

A single 'moving' message up (“0”) or down (“1”) is transmitted only when the LOCATION/GROUP starts moving.
If the blinds in a GROUP are at different levels, the message may not indicate the correct direction.

1.4.2.2 Current Absolute Position Blinds Percentage

A single 'position' message is transmitted when the **LOCATION** stops moving.
The GROUP position is not transmitted.
A GROUP move will transmit a 'position' message when each LOCATION in the GROUP stops moving.

2. Smart Gateway Configuration

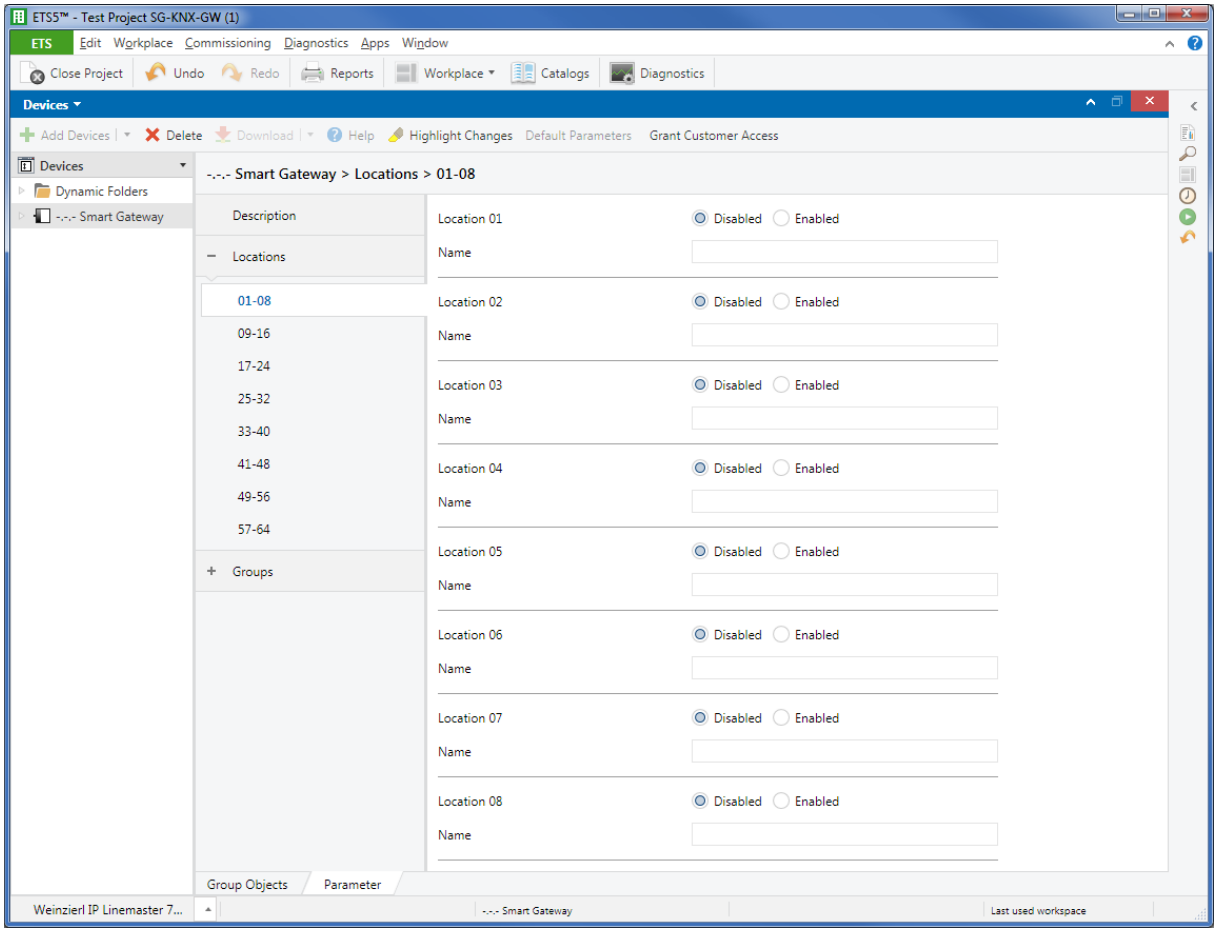
No GROUP Objects are enabled by default. GROUP Objects are activated by enabling the LOCATION or GROUP on the Parameters.

2.1 Description

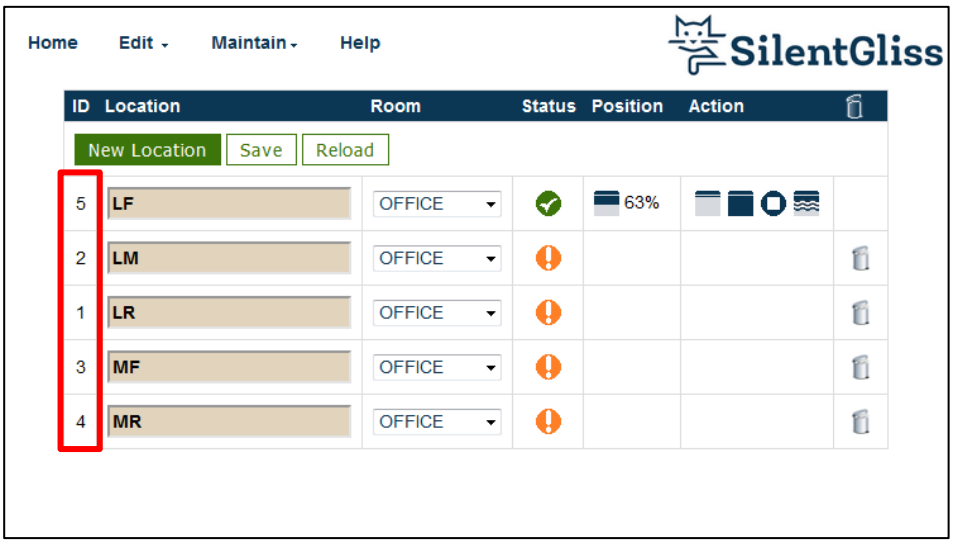
The Description tab displays a brief summary of the Gateway functionality, ordering information and contact details.

2.2 LOCATIONS

Displays 64 LOCATION enable/disable and name organised in 8 tabs of 8 LOCATIONS:

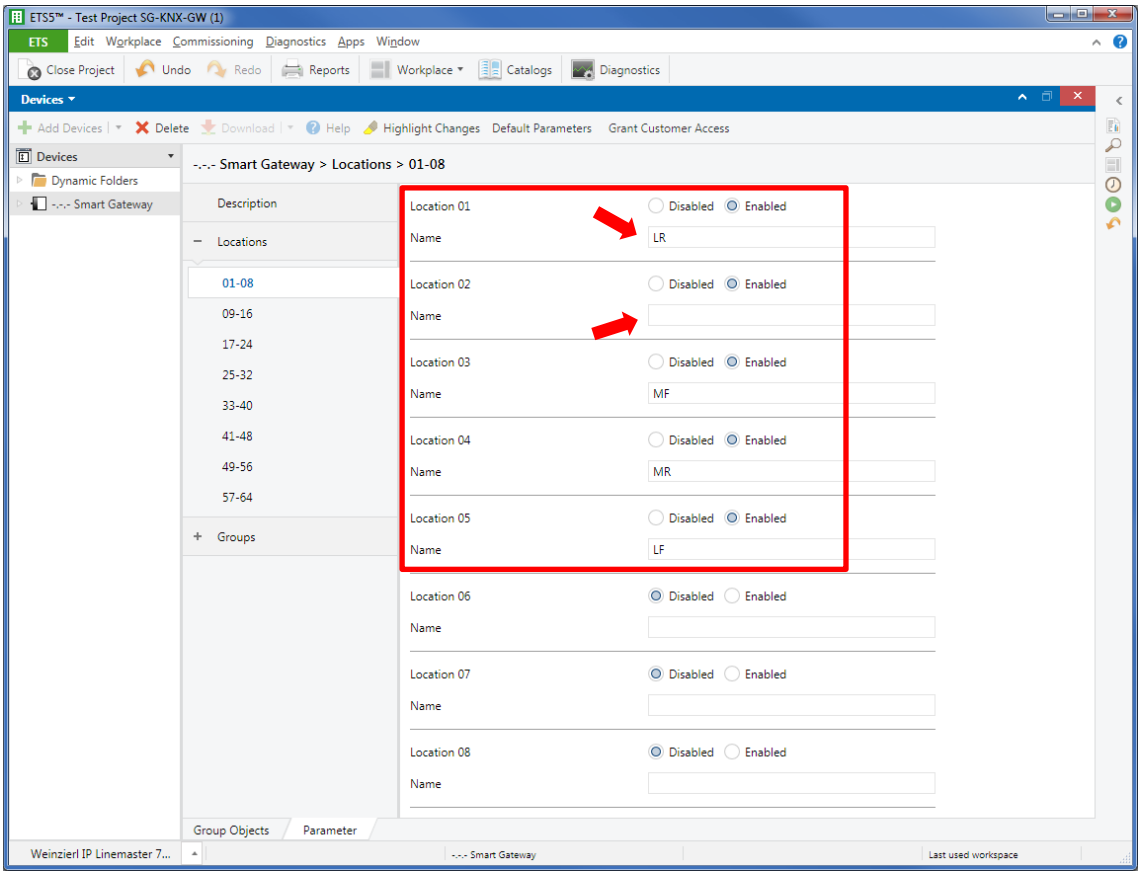


The valid LOCATION IDs need to be manually copied from the Gateway Web GUI into ETS to activate the corresponding LOCATION group objects.
If a KNX network is connected to the Gateway, the LOCATION ID is displayed on the Edit-LOCATION page:

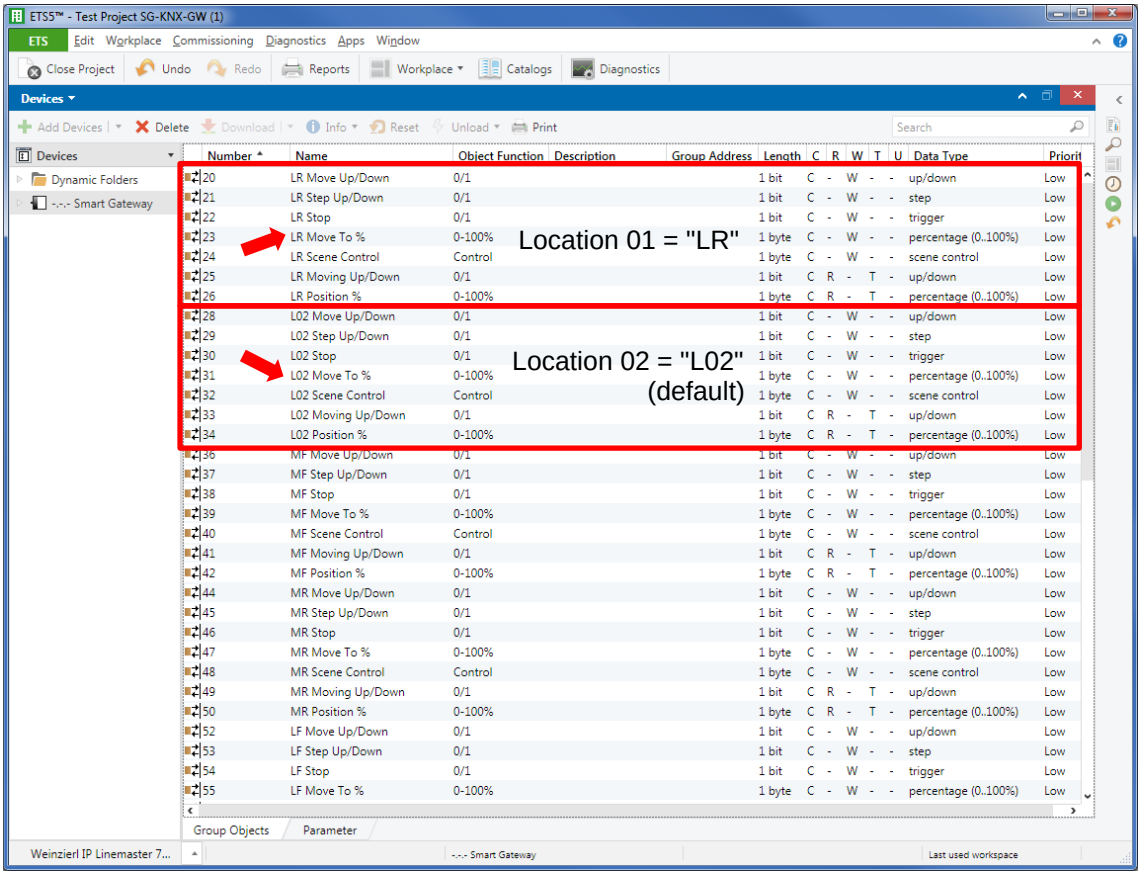


The IDs are not contiguous and are allocated when the LOCATION is created. The ID is then fixed for the life of the LOCATION. If (for example) from a new Gateway, the first 50 LOCATIONs will have IDs 1-50. If LOCATIONS 2-49 are deleted, the remaining LOCATION IDs will be 1 & 50. LOCATION 01 and LOCATION 50 must be enabled in ETS.

The IDs correspond to the LOCATION IDs in ETS, and must be enabled to gain access to the group objects (datapoints):



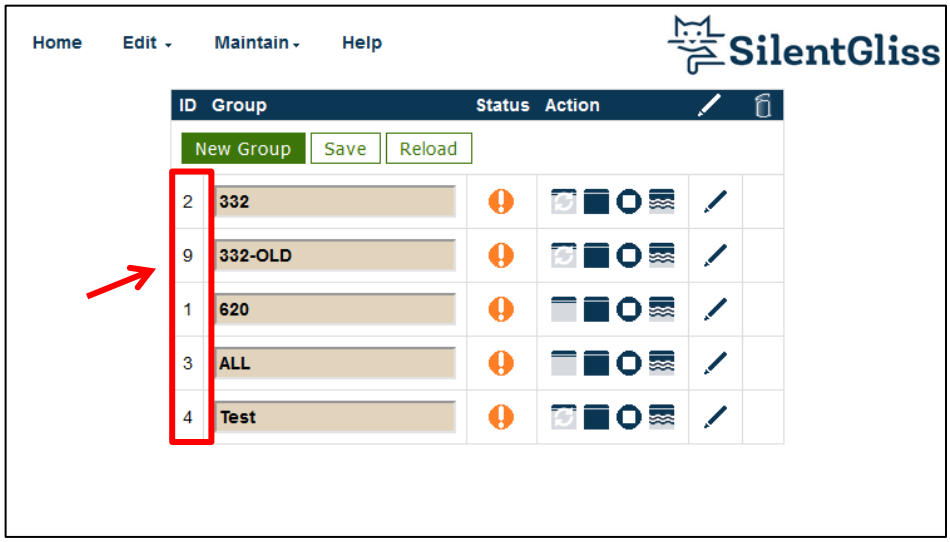
Enabling the 'LOCATION' makes the corresponding group objects visible. Naming the LOCATION changes the start of the group object name to help identification:



Disabling the LOCATION hides the corresponding group objects.
There are no name restrictions, and the same name could be applied to more than one LOCATION.
Enabling more LOCATIONs than are configured on the gateway is not a problem, but will create more group objects than necessary and therefore make configuration and management more prone to error.

2.3 GROUPS

Displays 64 GROUP enable/disable and name organised in 8 tabs of 8 GROUPS:
The valid GROUP IDs need to be manually copied from the Gateway Web GUI into ETS to activate the corresponding GROUP group objects.
If a KNX network is connected to the Gateway, the GROUP ID is displayed on the Edit-GROUP page:



The IDs are not contiguous and are allocated when the GROUP is created. The ID is then fixed for the life of the GROUP. In the example above, GROUPs 1-9 have been created and then 5-8 have been deleted. GROUPs 01-04 and GROUP 09 must be enabled in ETS to gain access to the group objects (datapoints):
Naming the GROUP changes the start of the group object name to help identification:
Disabling the GROUP hides the corresponding group objects.
There are no name restrictions, and the same name could be applied to more than one GROUP.
Enabling more GROUPs than are configured on the gateway is not a problem, but will create more group objects than necessary and therefore make configuration and management more prone to error.

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