

<b>VELUX®</b> VELUX A/S Accessories		



**VELUX A/S Accessories**

---

---

---

 VELUX A/S Accessories		

# History

Version	Changes	Author	Date

		
VELUX A/S Accessories		

**Table of Contents**

1 Welcome.....
2 VELUX liability .....
3 Introduction .....
4 Gateway interface .....

8
8
9
10

Checksum

5 Authentication .....

13

6 General device commands .....

17

 <b>VELUX</b> ® VELUX A/S Accessories		

<b>7 Configuration service.....</b>	<b>24</b>
-------------------------------------	-----------

<b>8 Information Service.....</b>	<b>40</b>
-----------------------------------	-----------


 VELUX A/S Accessories		

**9 Activation Log..... 54**

**10 Command Handler ..... 56**

<b>VELUX®</b> VELUX A/S Accessories		

**11 Scenes ..... 85**

 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

**12 Contact input interface ..... 98**

**13 Appendix 1: Standard Parameter definition ..... 102**

**14 Appendix 2: List of actuator types and their use of Main Parameter and  
Functional Parameters..... 104**

**15 Appendix 3: List of Gateway commands ..... 107**

 VELUX A/S Accessories		

**1 Welcome**

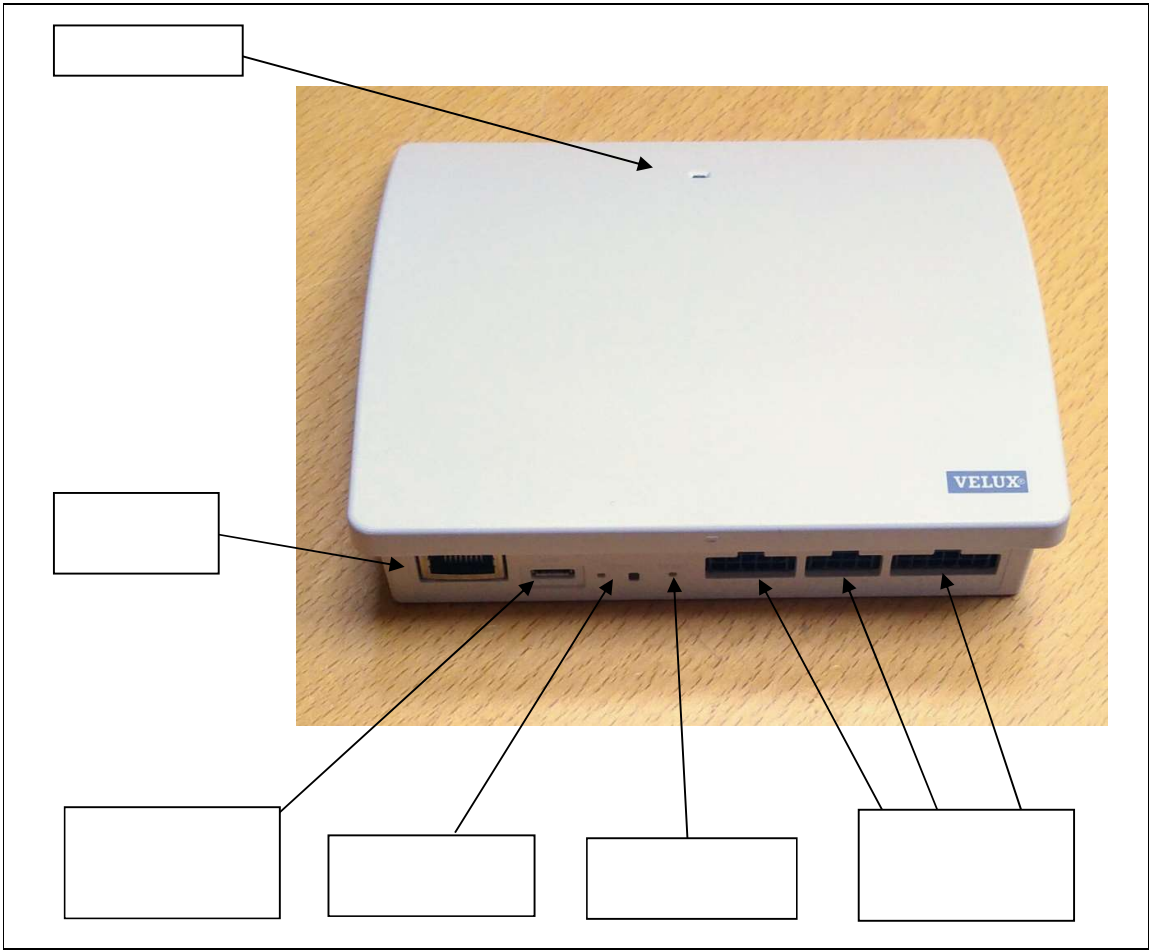
**2 VELUX liability**




<b>VELUX®</b> VELUX A/S Accessories		

**3 Introduction**

- 
- 



**Figure 1 – KLF 200 photo.**

 VELUX A/S Accessories		

## 4 Gateway interface

### 4.1 TCP/IP interface

### 4.2 Gateway command frame


Table 1 - Prototype of gateway command frame format.

#### 4.2.1 Command parameter

#### 4.2.2 Data field

### 4.3 Gateway command frame length


Table 2 – Length parameter added to Gateway Command frame.

#### 4.3.1 Length parameter


Figure 2 - Length parameter description.

### 4.4 Transport layer


Table 3 – Transport layer frame format.

 VELUX A/S Accessories		

4.4.1 ProtocolID parameter

4.4.2 Checksum parameter

Checksum

Checksum

4.5 SLIP wrapping

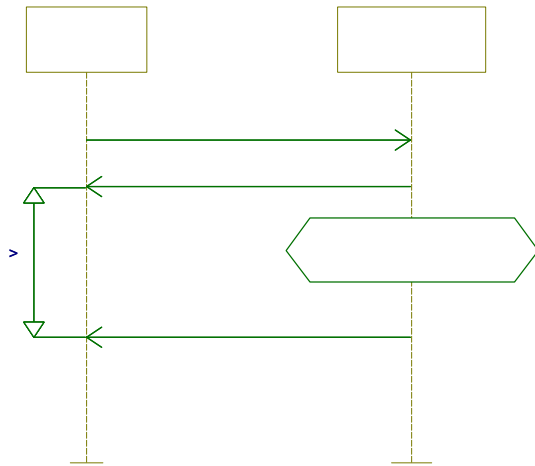



Figure 4 - Sequence diagram showing standard communication with REQ, CFM and NTF frames.

**Deviations from the rules above**

- 

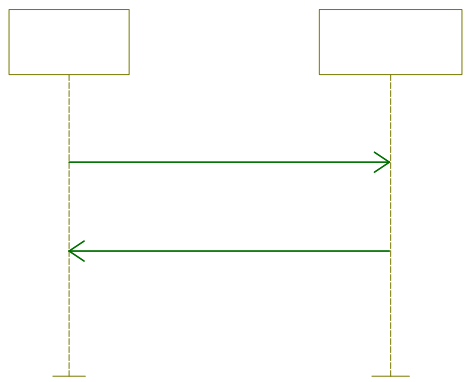
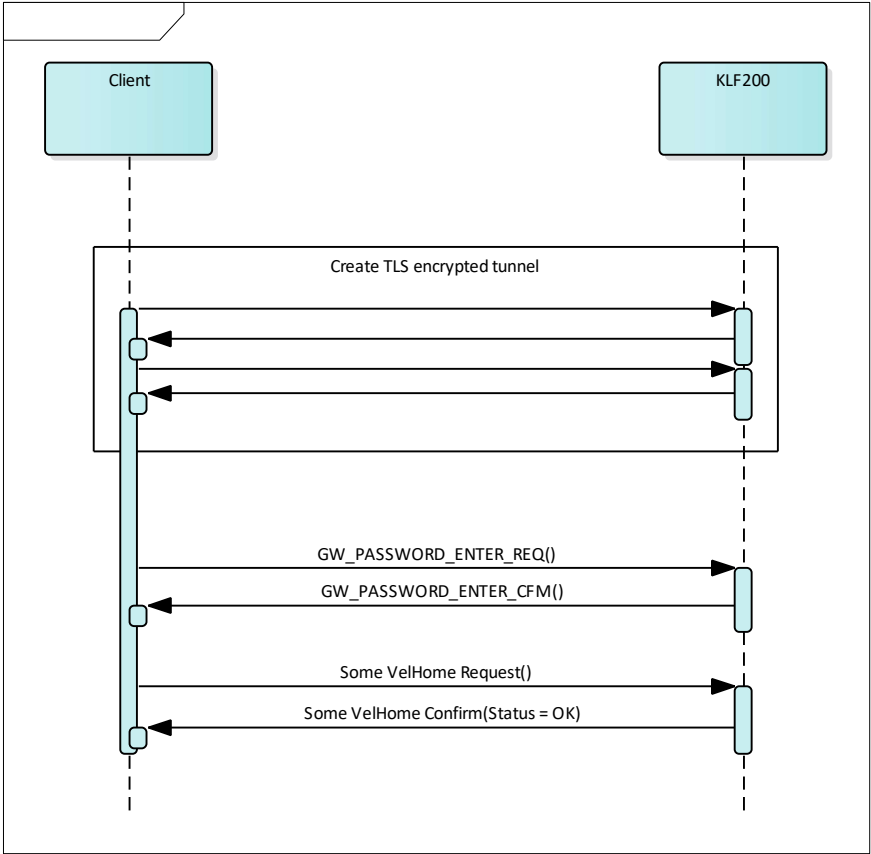


Figure 5 - Sequence diagram showing standard communication with REQ and Error frames.

- 
- 
- 
-

5 Authentication



5.1.1 GW\_PASSWORD\_ENTER\_REQ


Table 6 - GW\_PASSWORD\_ENTER\_REQ frame format.

5.1.1.1 Password

5.1.2 GW\_PASSWORD\_ENTER\_CFM


Table 7 - GW\_PASSWORD\_ENTER\_CFM frame format.

5.1.2.1 Status


Table 8 - Status parameter

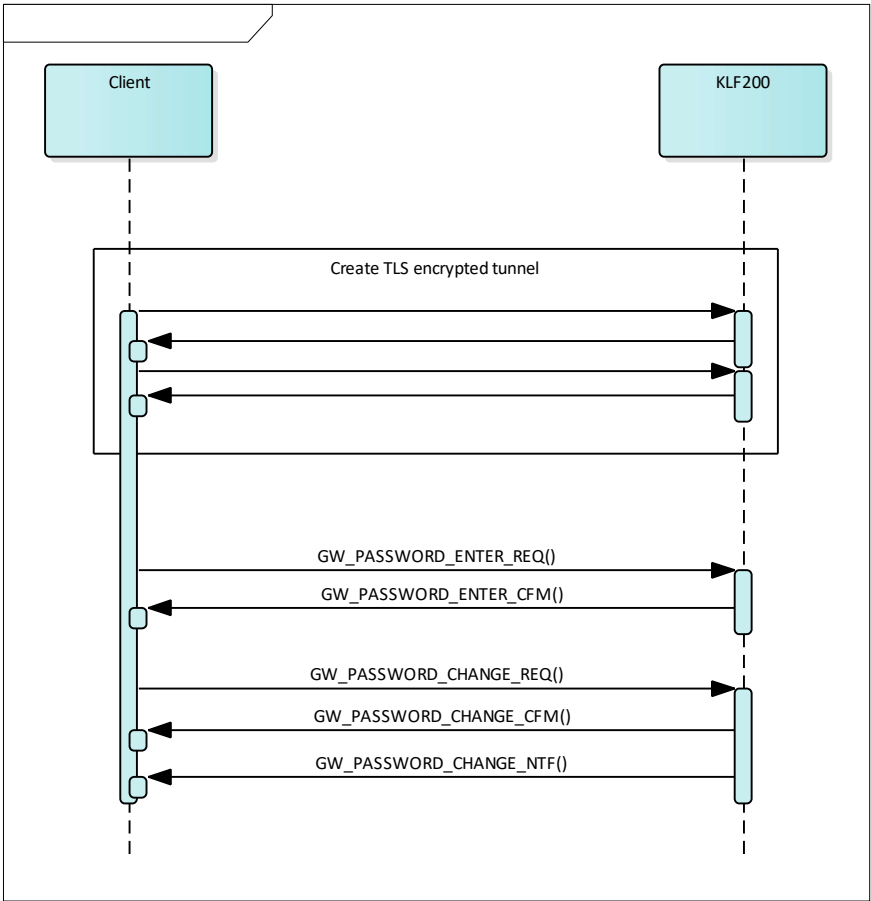


Figure 6 - Sequence diagram, change password.

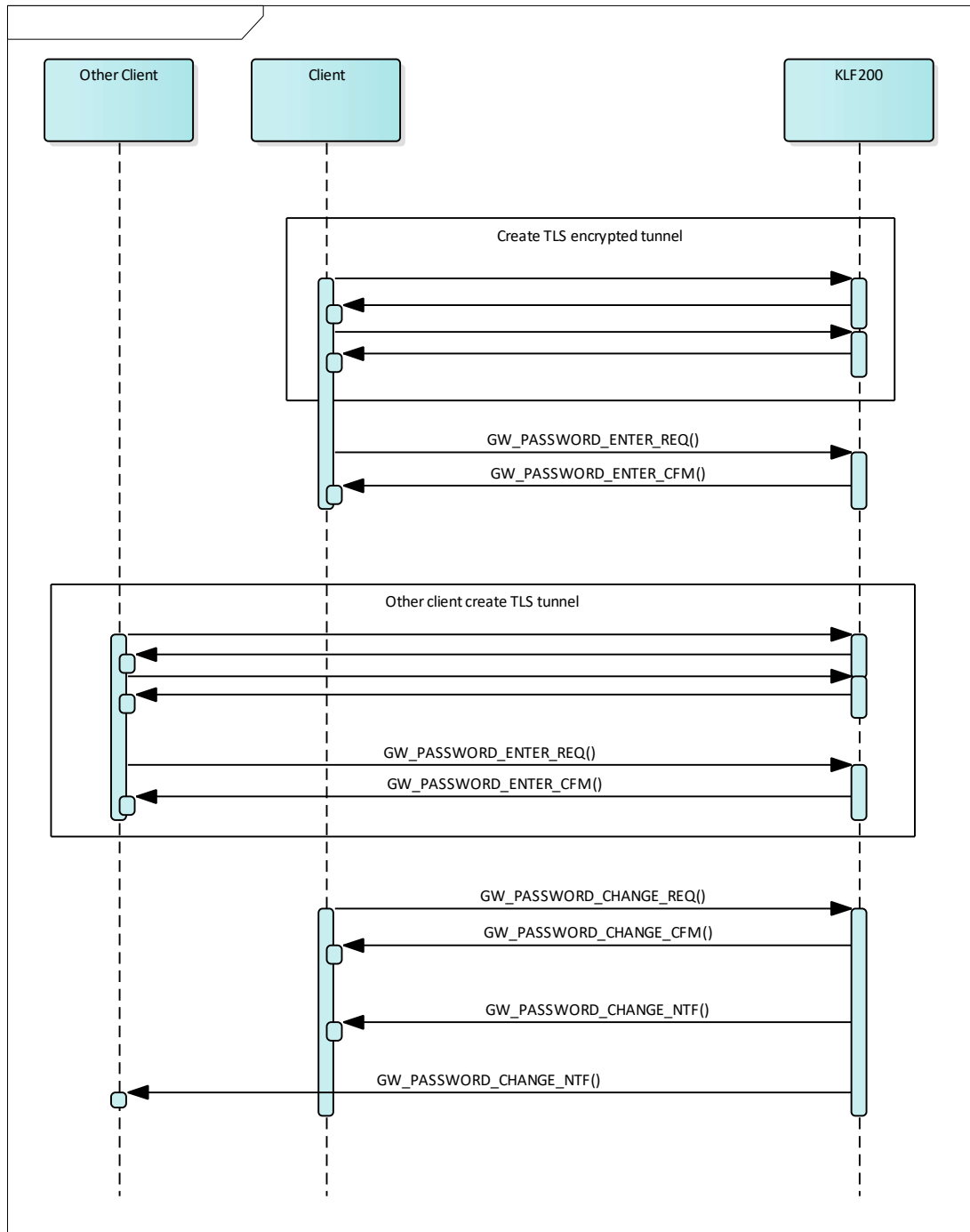


Figure 7 - Sequence diagram, change password and inform other client.

5.1.3 GW\_PASSWORD\_CHANGE\_REQ


Table 9 - GW\_PASSWORD\_CHANGE\_REQ frame format.

 VELUX A/S Accessories		

5.1.3.1
CurrentPassword and NewPassword

5.1.4
GW\_PASSWORD\_CHANGE\_CFM


=




Table 2: GW\_PASSWORD\_CHANGE\_CFM frame format.

5.1.4.1
Status




 VELUX A/S Accessories		

## 6 General device commands

### 6.1 Version information commands

#### 6.1.1 GW\_GET\_VERSION\_REQ


Table 13 - GW\_GET\_VERSION\_REQ frame format.

#### 6.1.2 GW\_GET\_VERSION\_CFM


Table 14 - GW\_GET\_VERSION\_CFM frame format.

##### 6.1.2.1 SoftwareVersion parameter


Table 15 - SoftwareVersion description

##### 6.1.2.2 HardwareVersion parameter

##### 6.1.2.3 ProductGroup parameter

##### 6.1.2.4 ProductType parameter

#### 6.1.3 GW\_GET\_PROTOCOL\_VERSION\_REQ


Table 16 - GW\_GET\_PROTOCOL\_VERSION\_REQ frame format.

#### 6.1.4 GW\_GET\_PROTOCOL\_VERSION\_CFM


Table 17 - GW\_GET\_PROTOCOL\_VERSION\_CFM frame format.

 VELUX A/S Accessories		

#### 6.1.4.1 MajorVersion parameter

#### 6.1.4.2 MinorVersion parameter

## 6.2 Gateway state

### 6.2.1 GW\_GET\_STATE\_REQ


Table 18 - GW\_GET\_STATE\_REQ frame format.

### 6.2.2 GW\_GET\_STATE\_CFM



Table 19 - GW\_GET\_STATE\_CFM frame format.

#### 6.2.2.1 GatewayState


Table 20 - GatewayState value Description

#### 6.2.2.2 SubState


Table 21 - Value description for SubState, when GatewayState is 1 or 2.

 VELUX A/S Accessories		

### 6.2.2.3 StateData

## 6.3 Leave learn state

### 6.3.1 GW\_LEAVE\_LEARN\_STATE\_REQ


Table 22 - GW\_LEAVE\_LEARN\_STATE\_REQ frame format.

### 6.3.2 GW\_LEAVE\_LEARN\_STATE\_CFM


Table 23 - GW\_LEAVE\_LEARN\_STATE\_CFM frame format.

#### 6.3.2.1 Status


Table 24 - Status parameter

## 6.4 Real Time Clock

### 6.4.1 GW\_SET\_UTC\_REQ


Table 25- GW\_SET\_UTC\_REQ frame format.

#### 6.4.1.1 Parameter utcTimeStamp

*unix timestamp*

### 6.4.2 GW\_SET\_UTC\_CFM


Table 26 - GW\_SET\_UTC\_CFM frame format.

### 6.4.3 GW\_RTC\_SET\_TIME\_ZONE\_REQ


Table 27 - GW\_RTC\_SET\_TIME\_ZONE\_REQ frame format.

#### 6.4.3.1 TimeZoneString parameter


 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

- 
- 
- 
- 
- 

#### 6.4.4 GW\_RTC\_SET\_TIME\_ZONE\_CFM


Table 28 - GW\_RTC\_SET\_TIME\_ZONE\_CFM frame format.

##### 6.4.4.1 Status parameter


 VELUX A/S Accessories		

--	--

Table 29 - Status parameter

### 6.4.5 GW\_GET\_LOCAL\_TIME\_REQ command


Table 30 - GW\_GET\_LOCAL\_TIME\_REQ frame format.

### 6.4.6 GW\_GET\_LOCAL\_TIME\_CFM command



Table 31 - GW\_GET\_LOCAL\_TIME\_CFM frame format.

#### 6.4.6.1 UtcTime parameter

#### 6.4.6.2 Second parameter

#### 6.4.6.3 Minute parameter

#### 6.4.6.4 Hour parameter

#### 6.4.6.5 DayOfMonth parameter

#### 6.4.6.6 Month parameter


#### 6.4.6.7 Year parameter

#### 6.4.6.8 WeekDay parameter

#### 6.4.6.9 DayOfYear parameter

#### 6.4.6.10 DaylightSavingFlag parameter


Table 32 - DaylightSavingFlag parameter description.

 VELUX A/S Accessories		

## 6.5 Reboot command set

### 6.5.1 GW\_REBOOT\_REQ


Table 33 - GW\_REBOOT\_REQ frame format.

### 6.5.2 GW\_REBOOT\_CFM


Table 34 - GW\_REBOOT\_CFM frame format.

## 6.6 Factory default command set

### 6.6.1 GW\_SET\_FACTORY\_DEFAULT\_REQ


Table 35 - GW\_SET\_FACTORY\_DEFAULT\_REQ frame format.

### 6.6.2 GW\_SET\_FACTORY\_DEFAULT\_CFM


Table 36 - GW\_SET\_FACTORY\_DEFAULT\_CFM frame format.

## 6.7 Network setup

## 6.8 Get network setup command set

### 6.8.1 GW\_GET\_NETWORK\_SETUP\_REQ



Table 37 - GW\_GET\_NETWORK\_SETUP\_REQ frame format.

### 6.8.2 GW\_GET\_NETWORK\_SETUP\_CFM


Table 38 - GW\_GET\_NETWORK\_SETUP\_CFM frame format.

#### 6.8.2.1 IPAddress parameter

#### 6.8.2.2 Mask parameter

 VELUX A/S Accessories		

### 6.8.2.3 DefGW parameter

### 6.8.2.4 DHCP parameter


Table 39 - DHCP parameter description.

## 6.9 Set network setup command set

### 6.9.1 GW\_SET\_NETWORK\_SETUP\_REQ


Table 40 - GW\_SET\_NETWORK\_SETUP\_REQ frame format.


### 6.9.2 GW\_SET\_NETWORK\_SETUP\_CFM


Table 41 - GW\_SET\_NETWORK\_SETUP\_CFM frame format.

## 6.10 GW\_ERROR\_NTF


Table 42 - GW\_ERROR\_NTF command frame format.


Table 43 - Error types.

 VELUX A/S Accessories		

## 7 Configuration service

### 7.1 System table

### 7.2 GW\_CS\_GET\_SYSTEMTABLE\_DATA\_REQ


Table 44 - GW\_CS\_GET\_SYSTEMTABLE\_DATA\_REQ frame format.

### 7.3 GW\_CS\_GET\_SYSTEMTABLE\_DATA\_CFM


Table 45 - GW\_CS\_GET\_SYSTEMTABLE\_DATA\_CFM frame format.

### 7.4 GW\_CS\_GET\_SYSTEMTABLE\_DATA\_NTF


Table 46 - GW\_CS\_GET\_SYSTEMTABLE\_DATA\_NTF frame format. Note  $n \in \{11; 22; \dots; 110\}$ .

#### 7.4.1.1 NumberOfEntry parameter

#### 7.4.1.2 SystemTableObjects parameter


Table 47 - Frame format of the parameter SystemTableObjects.

Class: General Actuator	
Byte Index	Description





 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

**Table 50 - NodeType data parameter description.**

**7.4.1.2.4 PowerSave Mode parameter**


**Table 51 - PowerSave Mode parameter description.**

**7.4.1.2.5 io-Membership parameter**

**7.4.1.2.6 RF support parameter**


**Table 52 - RF support parameter description.**

**7.4.1.2.7 Actuator Turnaround time parameter**


**Table 53 - Actuator Turnaround time parameter description.**

**7.4.1.2.8 io-Manufacturer Id parameter**


**Table 54 - io-Manufacturer Id parameter description.**

**7.4.1.2.9 Backbone reference number**

 VELUX A/S Accessories		

7.4.1.3 RemainingNumberOfEntry parameter

≠

7.4.2 GW\_CS\_GET\_SYSTEMTABLE\_DATA\_NTF frame if system table are empty.


Table 55 - GW\_CS\_GET\_SYSTEMTABLE\_DATA\_NTF frame format. Example where there are no nodes in the system table.

7.5 Discover nodes

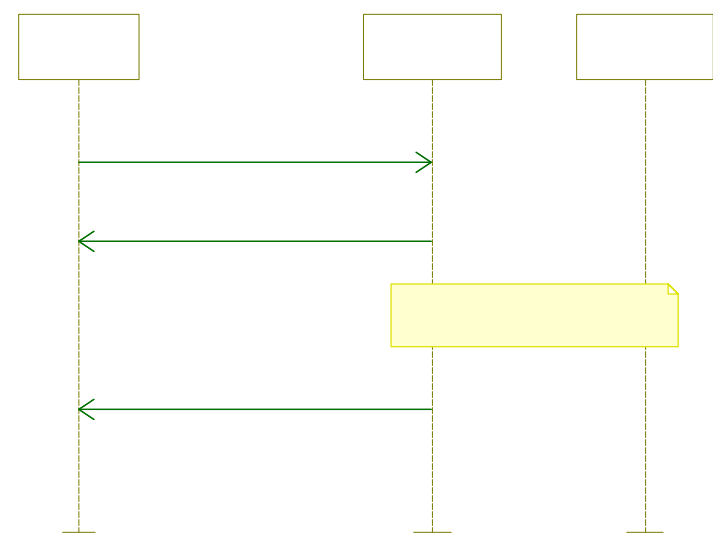



Figure 8 - Discover nodes sequence diagram.

7.5.1 GW\_CS\_DISCOVER\_NODES\_REQ


Table 56 - GW\_CS\_DISCOVER\_NODES\_REQ frame format.

7.5.1.1 NodeType parameter



 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

### 7.5.3.2 RFConnectionError

### 7.5.3.3 ioKeyErrorExistingNode

### 7.5.3.4 Removed

### 7.5.3.5 Open

### 7.5.3.6 DiscoverStatus


Table 60 - Parameter DiscoverStatus description.

## 7.6 Remove Nodes command set

### 7.6.1 GW\_CS\_REMOVE\_NODES\_REQ


Table 61 - GW\_CS\_REMOVE\_NODES\_REQ frame format.

 VELUX A/S Accessories		

**7.6.1.1 RemoveNodes**

**7.6.2 GW\_CS\_REMOVE\_NODES\_CFM**


Table 62 - GW\_CS\_REMOVE\_NODES\_CFM frame format.

**7.6.2.1 SceneDeleted**


Table 63 - Parameter SceneDeleted description.

**7.7 Virgin State command set**

- 
- 
- 
- 

**7.7.1 GW\_CS\_VIRGIN\_STATE\_REQ**


Table 64 - GW\_CS\_VIRGIN\_STATE\_REQ frame format.

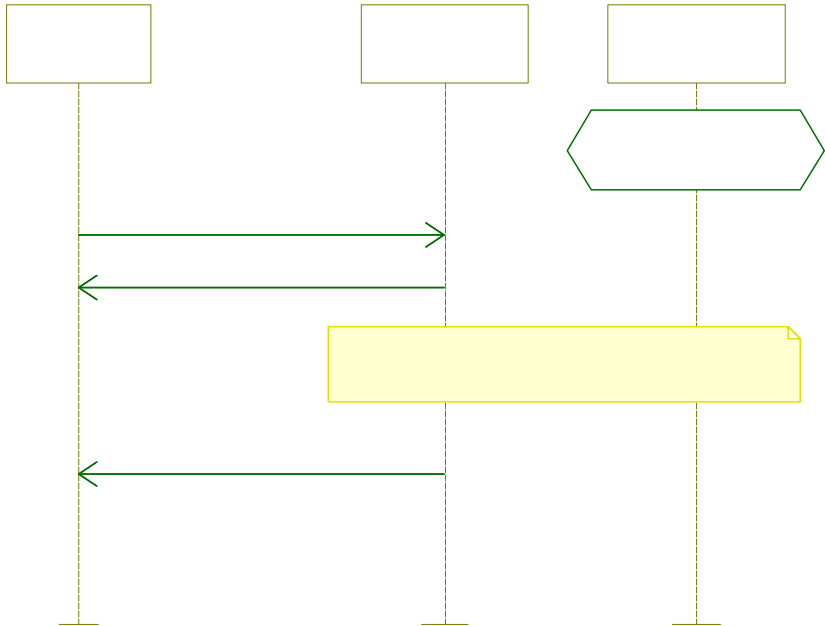
**7.7.2 GW\_CS\_VIRGIN\_STATE\_CFM**


Table 65 - GW\_CS\_VIRGIN\_STATE\_CFM frame format.

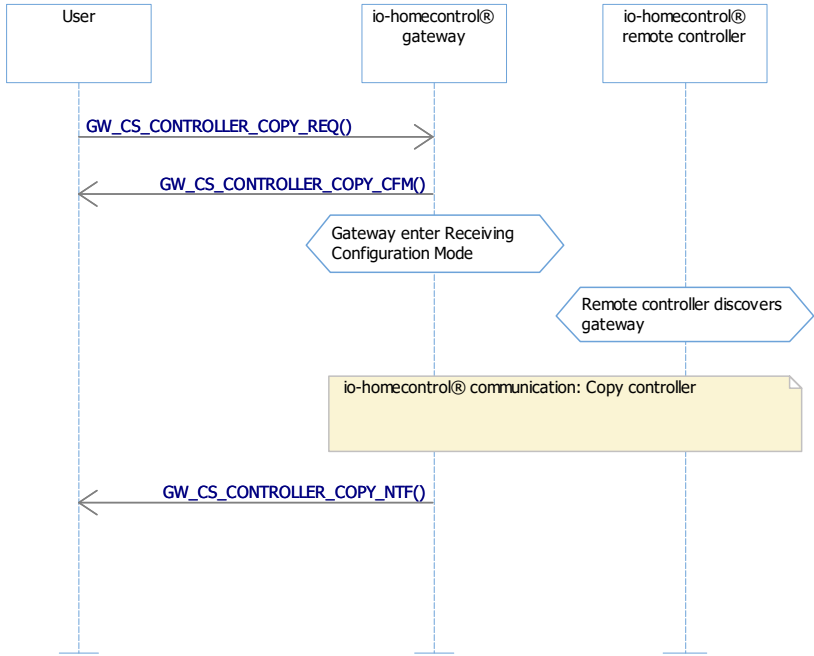
**7.8 Controller Copy command set**

-

•



**Figure 9 - Sequence diagram -Normal controller copy from remote controller to gateway (ControllerCopyMode = 0).**



**Figure 10 - Sequence diagram -Normal controller copy from gateway to remote controller (ControllerCopyMode = 1).**

 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

### 7.8.1 GW\_CS\_CONTROLLER\_COPY\_REQ


Table 66 - GW\_CS\_CONTROLLER\_COPY\_REQ frame format


Table 67 - ControllerCopyMode parameter description.

### 7.8.2 GW\_CS\_CONTROLLER\_COPY\_CFM


Table 68 - GW\_CS\_CONTROLLER\_COPY\_CFM frame format.

### 7.8.3 GW\_CS\_CONTROLLER\_COPY\_NTF


Table 69 - GW\_CS\_CONTROLLER\_COPY\_NTF frame format.


Table 70 - Parameter ControllerCopyStatus description with Transmitting Configuration Mode


Table 71 - Parameter ControllerCopyStatus description with Receiving Configuration Mode

### 7.8.4 GW\_CS\_CONTROLLER\_COPY\_CANCEL\_NTF


Table 72 - GW\_CS\_CONTROLLER\_COPY\_CANCEL\_NTF frame format.




 VELUX A/S Accessories		

Figure 11 - Sequence diagram - Cancel controller copy.

## 7.9 Generate new system Key

### 7.9.1 GW\_CS\_GENERATE\_NEW\_KEY\_REQ


Table 73 - GW\_CS\_GENERATE\_NEW\_KEY\_REQ frame format.

### 7.9.2 GW\_CS\_GENERATE\_NEW\_KEY\_CFM


Table 74 - GW\_CS\_GENERATE\_NEW\_KEY\_CFM frame format.

### 7.9.3 GW\_CS\_GENERATE\_NEW\_KEY\_NTF


Table 75 - GW\_CS\_GENERATE\_NEW\_KEY\_NTF frame format.

#### 7.9.3.1 ChangeKeyStatus parameter

--


 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		


Table 76 - Parameter ChangeKeyStatus description.

### 7.9.3.2 KeyChanged parameter

### 7.9.3.3 KeyNotChanged parameter

## 7.10 Receive Key command set

### 7.10.1 GW\_CS\_RECEIVE\_KEY\_REQ


Table 77 - GW\_CS\_RECEIVE\_KEY\_REQ frame format.

### 7.10.2 GW\_CS\_RECEIVE\_KEY\_CFM


Table 78 - GW\_CS\_RECEIVE\_KEY\_CFM frame format.

### 7.10.3 GW\_CS\_RECEIVE\_KEY\_NTF


Table 79 - GW\_CS\_RECEIVE\_KEY\_NTF frame format.

#### 7.10.3.1 ChangeKeyStatus parameter


Table 80 - Parameter ChangeKeyStatus description.

#### 7.10.3.2 KeyChanged parameter

#### 7.10.3.3 KeyNotChanged parameter

 VELUX A/S Accessories		

7.11 Update new key in actuators with old key

7.11.1 GW\_CS\_REPAIR\_KEY\_REQ


Table 81 - GW\_CS\_REPAIR\_KEY\_REQ frame format.

7.11.2 GW\_CS\_REPAIR\_KEY\_CFM


Table 82 - GW\_CS\_REPAIR\_KEY\_CFM frame format.

7.11.3 GW\_CS\_REPAIR\_KEY\_NTF


Table 83 - GW\_CS\_REPAIR\_KEY\_NTF frame format.

7.12 Product Generic Configuration (PGC)

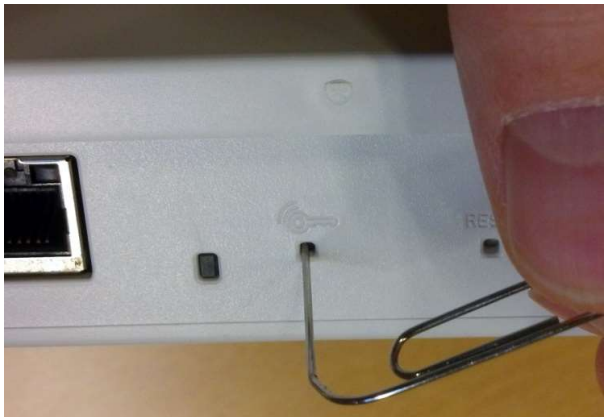


Figure 12 - Straightened paper clip used to enable the PGC button.

7.12.1 Button presses overview

	Get the 2W io-SystemKey

 VELUX A/S Accessories		

	Give the 2W io-SystemKey
	Generate a new 2W io-SystemKey

Table 84 - Button presses overview

7.12.2 PGC job descriptions

7.12.2.1 Get the 2W io-SystemKey


- \_\_\_\_\_
- 
- 
- 
- 

7.12.2.2 Give the 2W io-SystemKey

- \_\_\_\_\_
- ≤
- \_\_\_\_\_
- \_\_\_\_\_
- 
- 

7.12.2.3 Generate a new 2W io-SystemKey

- \_\_\_\_\_
- ≤
- \_\_\_\_\_
- \_\_\_\_\_
- 
-

 VELUX A/S Accessories		

### 7.12.3 LED feedback overview






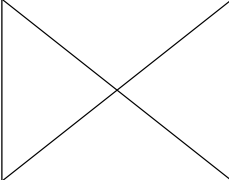


Function	Feedback Function	Feedback SUCCES	Feedback ERROR	Feedback PARTLY SUCCESS
Get the 2W io-SystemKey				
Give the 2W io-SystemKey	 ~			
Generate a new 2W io-SystemKey				

Table 85 - LED feedback overview

### 7.12.4 GW\_CS\_PGC\_JOB\_NTF


Table 86 - GW\_CS\_PGC\_JOB\_NTF frame format.

#### 7.12.4.1 PgcJobState


Table 87 - Parameter PgcJobState description

#### 7.12.4.2 PgcJobStatus


Table 88 - Parameter PgcJobStatus description

<div> <div>VELUX®</div> <div>VELUX A/S Accessories</div> </div>		

**7.12.4.3**
**PgcJobType**


Table 89 - Parameter PgcJobType description

**7.13 System table change notification**

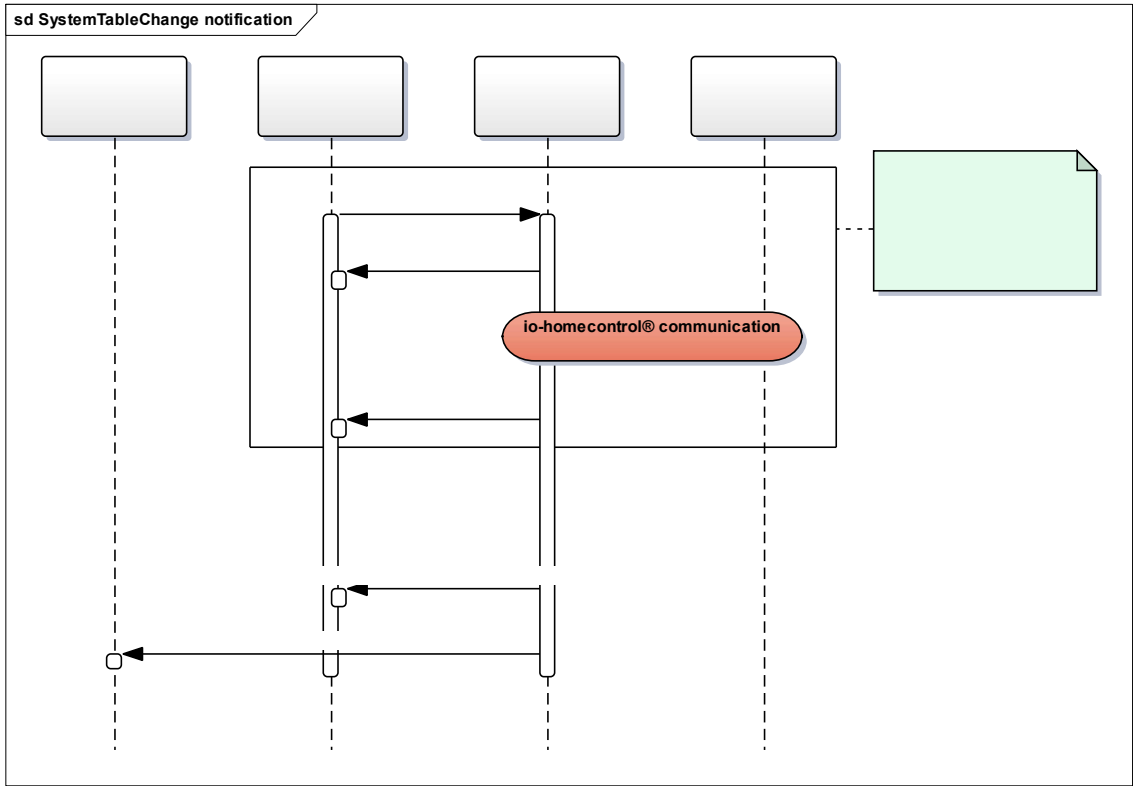



Figure 13 - GW\_CS\_SYSTEM\_TABLE\_UPDATE\_NTF is sent to all clients.

**7.13.1 GW\_CS\_SYSTEM\_TABLE\_UPDATE\_NTF**


Figure 14 - GW\_CS\_SYSTEM\_TABLE\_UPDATE\_NTF frame format.

**7.13.1.1**
**AddedNodesBitArray** parameter

 VELUX A/S Accessories		

#### 7.13.1.2 RemovedNodesBitArray parameter

## 7.14 Open actuator for configuration

### 7.14.1 GW\_CS\_ACTIVATE\_CONFIGURATION\_MODE\_REQ


Table 90 - GW\_CS\_ACTIVATE\_CONFIGURATION\_MODE\_REQ frame format.

#### 7.14.1.1 ActivateConfiguration parameter

### 7.14.2 GW\_CS\_ACTIVATE\_CONFIGURATION\_MODE\_CFM


Table 91 - GW\_CS\_ACTIVATE\_CONFIGURATION\_MODE\_CFM frame format.


#### 7.14.2.1 Activated parameter

#### 7.14.2.2 NoContact parameter

#### 7.14.2.3 OtherError parameter

#### 7.14.2.4 Status parameter


Table 92 - Status parameter description.

 VELUX A/S Accessories		

## 8 Information Service

### 8.1 House Status Monitor service


Table 93 – How often information is requested from actuator, depending of its type and state.

### 8.2 Enable or disable House Status Monitor.

#### 8.2.1 GW\_HOUSE\_STATUS\_MONITOR\_ENABLE\_REQ


Table 94 - GW\_HOUSE\_STATUS\_MONITOR\_ENABLE\_REQ frame format.

#### 8.2.2 GW\_HOUSE\_STATUS\_MONITOR\_ENABLE\_CFM


Table 95 - GW\_HOUSE\_STATUS\_MONITOR\_ENABLE\_CFM frame format.

#### 8.2.3 GW\_HOUSE\_STATUS\_MONITOR\_DISABLE\_REQ



 VELUX A/S Accessories		


Table 96 - GW\_HOUSE\_STATUS\_MONITOR\_DISABLE\_REQ frame format.

8.2.4 GW\_HOUSE\_STATUS\_MONITOR\_DISABLE\_CFM


Table 97 - GW\_HOUSE\_STATUS\_MONITOR\_DISABLE\_CFM frame format.

8.3 Node information

8.3.1 GW\_GET\_NODE\_INFORMATION\_REQ


Table 98 - GW\_GET\_NODE\_INFORMATION\_REQ frame format

8.3.1.1 NodeID

8.3.2 GW\_GET\_NODE\_INFORMATION\_CFM


Table 99 - GW\_GET\_NODE\_INFORMATION\_CFM frame format

8.3.2.1 Status


Table 100 - Status parameter


8.3.2.2 NodeID

8.3.3 GW\_GET\_NODE\_INFORMATION\_NTF





Table 101 - GW\_GET\_NODE\_INFORMATION\_NTF frame format

 VELUX A/S Accessories		

#### 8.3.3.1 NodeID

#### 8.3.3.2 Order

#### 8.3.3.3 Placement

#### 8.3.3.4 Name

#### 8.3.3.5 Velocity

	<i>DEFAULT</i>	
	<i>SILENT</i>	
	<i>FAST</i>	
	-	
	<i>VELOCITY_NOT_AVAILABLE</i>	

**Table 102 - Velocity parameter**

#### 8.3.3.6 NodeTypeSubType

#### 8.3.3.7 ProductType

#### 8.3.3.8 NodeVariation


	<i>NOT_SET</i>	
	<i>TOPHUNG</i>	
	<i>KIP</i>	
	<i>FLAT_ROOF</i>	
	<i>SKY_LIGHT</i>	

**Table 103 - NodeVariation parameter**

#### 8.3.3.9 PowerMode



**Table 104 - State parameter**

 VELUX A/S Accessories		

**8.3.3.10      SerialNumber**

**8.3.3.11      State**



**Table 105 - State parameter**

**8.3.3.12      CurrentPosition**

**8.3.3.13      Target**

**8.3.3.14      FP1CurrentPosition**

**8.3.3.15      BuildNumber**

**8.3.3.16      FP2CurrentPosition**

 VELUX A/S Accessories		

8.3.3.17
FP3CurrentPosition

8.3.3.18
FP4CurrentPosition

8.3.3.19
RemainingTime

8.3.3.20
TimeStamp

8.3.3.21
NbrOfAlias

8.3.3.22
Alias


Table 106 - Frame format of the parameter Alias.


Table 107 - Alias structure.


8.3.3.22.1
Type

8.3.3.22.2
Value

8.3.4
GW\_SET\_NODE\_VARIATION\_REQ


Table 108 - GW\_SET\_NODE\_VARIATION\_REQ frame format

8.3.4.1
NodeID

 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

### 8.3.4.2 NodeVariation

	<i>NOT_SET</i>	
	<i>TOPHUNG</i>	
	<i>KIP</i>	
	<i>FLAT_ROOF</i>	
	<i>SKY_LIGHT</i>	

Table 109 - NodeVariation parameter

### 8.3.5 GW\_SET\_NODE\_VARIATION\_CFM


Table 110 - GW\_SET\_NODE\_VARIATION\_CFM frame format

#### 8.3.5.1 Status


Table 111 - Status parameter

#### 8.3.5.2 NodeID

### 8.3.6 GW\_SET\_NODE\_NAME\_REQ


Table 112 - GW\_SET\_NODE\_NAME\_REQ frame format

#### 8.3.6.1 NodeID


#### 8.3.6.2 Name

### 8.3.7 GW\_SET\_NODE\_NAME\_CFM


Table 113 - GW\_SET\_NODE\_NAME\_CFM frame format

#### 8.3.7.1 Status


Table 114 - Status parameter

 VELUX A/S Accessories		

### 8.3.7.2 NodeID

## 8.3.8 GW\_NODE\_INFORMATION\_CHANGED\_NTF



Table 115 - GW\_NODE\_INFORMATION\_CHANGED\_NTF frame format.

### 8.3.8.1 Parameter description

## 8.3.9 GW\_NODE\_STATE\_POSITION\_CHANGED\_NTF




Table 116 - GW\_NODE\_INFORMATION\_CHANGED\_NTF frame format.

## 8.3.10 GW\_GET\_ALL\_NODES\_INFORMATION\_REQ


Table 117 - GW\_GET\_ALL\_NODES\_INFORMATION\_REQ frame format.

## 8.3.11 GW\_GET\_ALL\_NODES\_INFORMATION\_CFM


Table 118 - GW\_GET\_ALL\_NODES\_INFORMATION\_CFM

### 8.3.11.1 Status


Table 119 - Status parameter

 VELUX A/S Accessories		

### 8.3.12 GW\_GET\_ALL\_NODES\_INFORMATION\_NTF


Table 120 - GW\_GET\_ALL\_NODES\_INFORMATION\_NTF frame format.

#### 8.3.12.1 Parameter description

### 8.3.13 GW\_GET\_ALL\_NODES\_INFORMATION\_FINISHED\_NTF


Table 121 - GW\_GET\_ALL\_NODES\_INFORMATION\_CFM frame format.

### 8.3.14 GW\_SET\_NODE\_ORDER\_AND\_PLACEMENT\_REQ


Table 122 - GW\_SET\_NODE\_ORDER\_AND\_PLACEMENT\_REQ frame format.

#### 8.3.14.1 NodeID

#### 8.3.14.2 Order

#### 8.3.14.3 Placement

### 8.3.15 GW\_SET\_NODE\_ORDER\_AND\_PLACEMENT\_CFM



Table 123 - GW\_SET\_NODE\_ORDER\_AND\_PLACEMENT\_CFM frame format

<b>VELUX®</b> VELUX A/S Accessories		

**8.3.15.1      Status**

--	--



 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

#### 8.4.3.1 GroupID

#### 8.4.3.2 Order

#### 8.4.3.3 Placment

#### 8.4.3.4 Name

#### 8.4.3.5 Velocity

	<i>DEFAULT</i>	
	<i>SILENT</i>	
	<i>FAST</i>	
	-	

**Table 129 – Velocity parameter.**

#### 8.4.3.6 NodeVariation

	<i>NOT_SET</i>	
	<i>TOPHUNG</i>	
	<i>KIP</i>	
	<i>FLAT_ROOF</i>	
	<i>SKY_LIGHT</i>	

**Table 130 – NodeVariation parameter.**


#### 8.4.3.7 GroupType

	<i>USER_GROUP</i>	
	<i>ROOM</i>	
	<i>HOUSE</i>	

**Table 131 – GroupType parameter.**

#### 8.4.3.8 NbrOfObjects

#### 8.4.3.9 ActuatorBitArray

 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

#### 8.4.3.10 Revision

### 8.4.4 GW\_NEW\_GROUP\_REQ



Table 132 – GW\_NEW\_GROUP\_REQ frame format.

#### 8.4.4.1 GroupType

	<i>USER_GROUP</i>	
	<i>ROOM</i>	
	<i>HOUSE</i>	
	<i>ALL-GROUP</i>	

Table 133 – GroupType parameter.

**Note:**

#### 8.4.4.2 Parameter description for remaining parameters

### 8.4.5 GW\_NEW\_GROUP\_CFM


Table 134 – GW\_NEW\_GROUP\_CFM frame format.

#### 8.4.5.1 Status


Table 135 – Status parameter description.

#### 8.4.5.2 GroupID

 VELUX A/S Accessories		

8.4.6 GW\_SET\_GROUP\_INFORMATION\_REQ



Table 136 – GW\_SET\_GROUP\_INFORMATION\_REQ frame format.

8.4.6.1 GroupID

8.4.6.2 GroupType

8.4.6.3 Parameter description for remaining parameters

8.4.7 GW\_SET\_GROUP\_INFORMATION\_CFM


Table 137 – GW\_SET\_GROUP\_INFORMATION\_CFM frame format.

8.4.7.1 Status



Table 138 – Status parameter.

8.4.7.2 GroupID

8.4.8 GW\_DELETE\_GROUP\_REQ


Table 139 – GW\_DELETE\_GROUP\_REQ frame format.

8.4.8.1 GroupID

 VELUX A/S Accessories		

## 8.4.9 GW\_DELETE\_GROUP\_CFM


Table 140 – GW\_DELETE\_GROUP\_CFM frame format.

### 8.4.9.1 GroupID

### 8.4.9.2 Status


Table 141 – Status parameter.

## 8.4.10 GW\_GROUP\_DELETED\_NTF


Table 142 – GW\_GROUP\_DELETED\_NTF frame format.

## 8.4.11 GW\_GET\_ALL\_GROUPS\_INFORMATION\_REQ


Table 143 – GW\_GET\_ALL\_GROUPS\_INFORMATION\_REQ frame format.

### 8.4.11.1 UseFilter

### 8.4.11.2 GroupType

	<i>USER_GROUP</i>	
	<i>ROOM</i>	
	<i>HOUSE</i>	


Table 144 – GroupType parameter.

## 8.4.12 GW\_GET\_ALL\_GROUPS\_INFORMATION\_CFM


Table 145 – GW\_GET\_ALL\_GROUPS\_INFORMATION\_CFM frame format.

### 8.4.12.1 Status


Table 146 – Status parameter description

 VELUX A/S Accessories		

#### 8.4.13 GW\_GET\_ALL\_GROUPS\_INFORMATION\_NTF



Table 147 - GW\_GET\_ALL\_GROUPS\_INFORMATION\_NTF frame format.

##### 8.4.13.1 Parameter description

#### 8.4.14 GW\_GET\_ALL\_GROUPS\_INFORMATION\_FINISHED\_NTF


Table 148 - GW\_GET\_ALL\_GROUPS\_INFORMATION\_FINISHED\_NTF frame format.

#### 8.4.15 GW\_GROUP\_INFORMATION\_CHANGED\_NTF


Table 149 - GW\_GROUP\_INFORMATION\_CHANGED\_NTF frame format when a group is deleted.





Table 150 - GW\_GROUP\_INFORMATION\_CHANGED\_NTF frame format when group information has changed.

##### 8.4.15.1 ChangeType


Table 151 - ChangeType value description

##### 8.4.15.2 Parameter description

 VELUX A/S Accessories		

## 9 Activation Log

### 9.1.1 GW\_GET\_ACTIVATION\_LOG\_HEADER\_REQ


Table 152 - GW\_GET\_ACTIVATION\_LOG\_HEADER\_REQ frame format.

### 9.1.2 GW\_GET\_ACTIVATION\_LOG\_HEADER\_CFM


Table 153 - GW\_GET\_ACTIVATION\_LOG\_HEADER\_CFM frame format.

#### 9.1.2.1 MaxLineCount parameter

#### 9.1.2.2 LineCount parameter

### 9.1.3 GW\_CLEAR\_ACTIVATION\_LOG\_REQ


Table 154 - GW\_CLEAR\_ACTIVATION\_LOG\_REQ frame format.

### 9.1.4 GW\_CLEAR\_ACTIVATION\_LOG\_CFM


Table 155 - GW\_CLEAR\_ACTIVATION\_LOG\_CFM frame format.

### 9.1.5 GW\_GET\_ACTIVATION\_LOG\_LINE\_REQ


Table 156 - GW\_GET\_ACTIVATION\_LOG\_LINE\_REQ frame format.

#### 9.1.5.1 Line parameter


### 9.1.6 GW\_GET\_ACTIVATION\_LOG\_LINE\_CFM



Table 157 - GW\_GET\_ACTIVATION\_LOG\_LINE\_CFM frame format.

#### 9.1.6.1 TimeStamp parameter

#### 9.1.6.2 Parameter Data 5 to 17

 VELUX A/S Accessories		

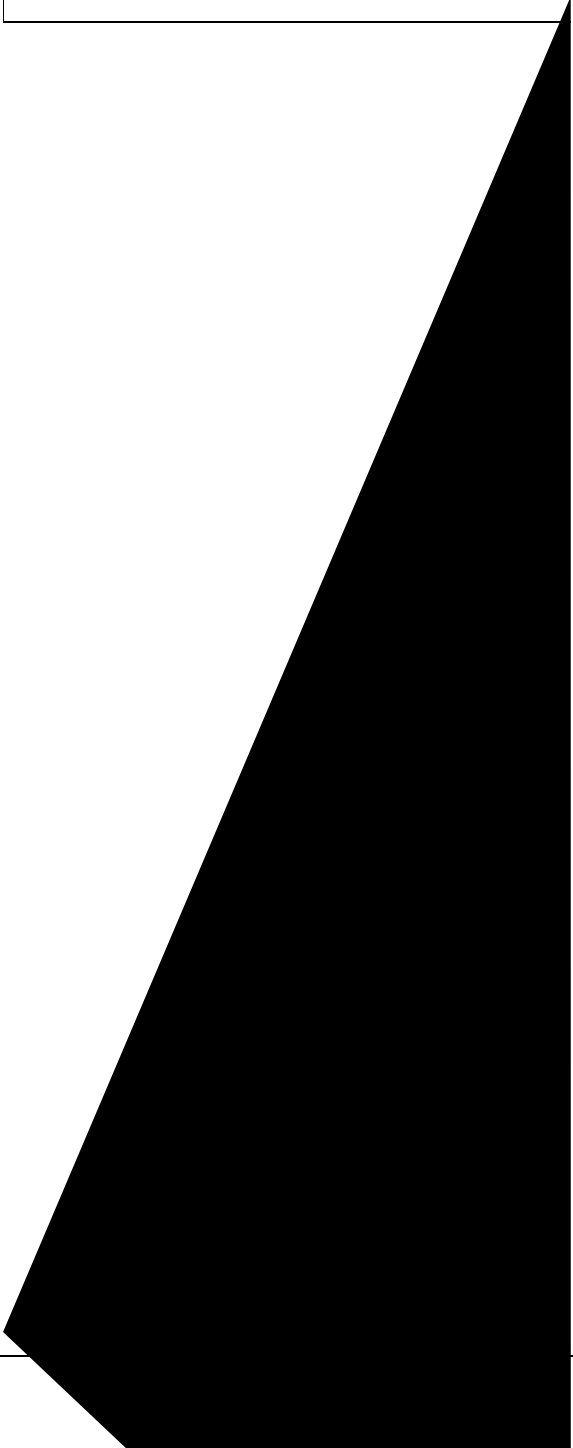
### 9.1.7 GW\_GET\_MULTIPLE\_ACTIVATION\_LOG\_LINES\_REQ


Table 158 - GW\_GET\_MULTIPLE\_ACTIVATION\_LOG\_LINES\_REQ frame format.

#### 9.1.7.1 Timestamp parameter

### 9.1.8 GW\_GET\_MULTIPLE\_ACTIVATION\_LOG\_LINES\_MTF


□



<b>VELUX®</b> VELUX A/S Accessories		

10 Command Handler

- 
- 
- 
- 
- 
- 
- 

10.1 Send activating command

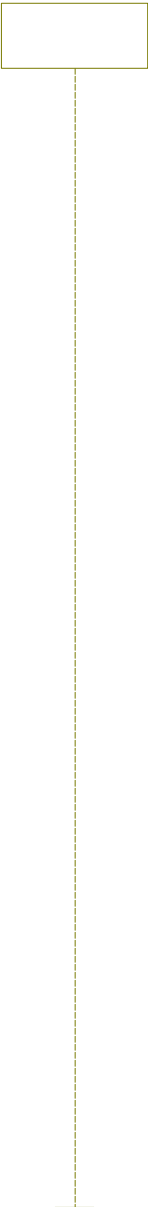


Figure 15 - Sequence diagram, Send activating command.



 VELUX A/S Accessories		

10.1.1
GW\_COMMAND\_SEND\_REQ




Table 163 - GW\_COMMAND\_SEND\_REQ frame format.

10.1.1.1
SessionID parameter

10.1.1.2
CommandOriginator parameter

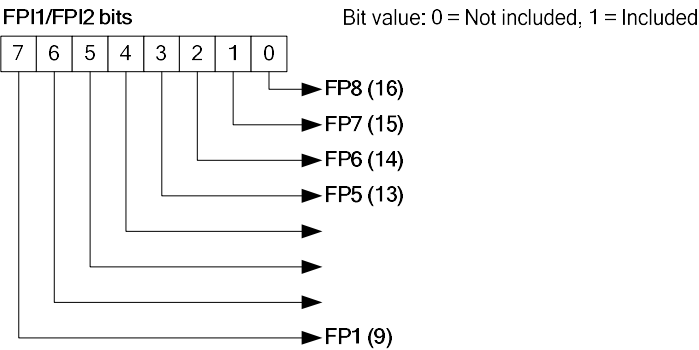

Table 164 - CommandOriginator parameter description

10.1.1.3
PriorityLevel parameter



<b>VELUX®</b> VELUX A/S Accessories		

**10.1.1.5      FPI1 and FPI2 parameters**




 VELUX A/S Accessories		


Table 167 - PriorityLevelLock parameter

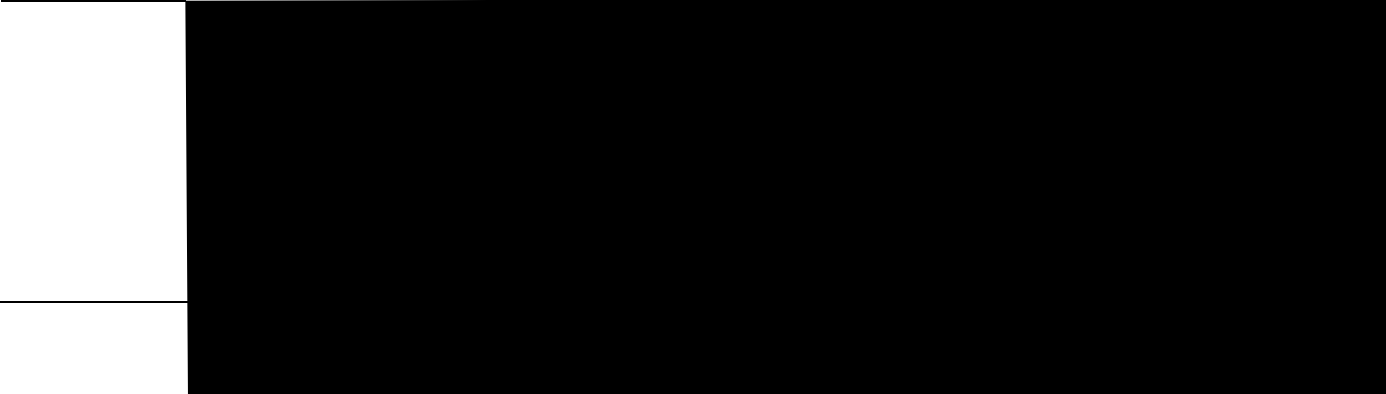
10.1.1.10      **PLI\_0\_3 and PLI\_4\_7 parameters**  
**Priority level information**


Table 168 - Priority Level Information numbers.

**Priority Level Lock Information Bytes**


Table 169 - Priority level lock bytes.

10.1.1.11      **LockTime parameter**


 VELUX A/S Accessories		


Table 171 - GW\_COMMAND\_SEND\_CFM frame format.

#### 10.1.2.1 Status parameter


Table 172 - Status parameter description.

#### 10.1.2.2 SessionID parameter

### 10.1.3 GW\_COMMAND\_RUN\_STATUS\_NTF




Table 173 - GW\_COMMAND\_RUN\_STATUS\_NTF frame format.

#### 10.1.3.1 SessionID parameter

#### 10.1.3.2 StatusID parameter


Table 174 - StatusID parameter description.

#### 10.1.3.3 Index parameter

 <b>VELUX</b> ® VELUX A/S Accessories		

#### 10.1.3.4 NodeParameter parameter

	MP	
	FP1	
	FP2	
	FP3	
	FP4	
	FP5	
	FP6	
	FP7	
	FP8	
	FP9	
	FP10	
	FP11	
	FP12	
	FP13	
	FP14	
	FP15	
	FP16	
	NOT_USED	

Table 175 - NodeParameter description.

#### 10.1.3.5 ParameterValue parameter


#### 10.1.3.6 RunStatus parameter

	EXECUTION_COMPLETED	
	EXECUTION_FAILED	
	EXECUTION_ACTIVE	

Table 176 - RunStatus parameter description.


#### 10.1.3.7 StatusReply parameter

	UNKNOWN_STATUS_REPLY	
	COMMAND_COMPLETED_OK	
	NO_CONTACT	
	MANUALLY_OPERATED	
	BLOCKED	
	WRONG_SYSTEMKEY	
	PRIORITY_LEVEL_LOCKED	
	REACHED_WRONG_POSITION	
	ERROR_DURING_EXECUTION	
	NO_EXECUTION	
	CALIBRATING	
	POWER_CONSUMPTION_TOO_HIGH	

 <b>VELUX</b> ® <b>VELUX A/S Accessories</b>		

	<i>POWER_CONSUMPTION_TOO_LOW</i>	
	<i>LOCK_POSITION_OPEN</i>	
	<i>MOTION_TIME_TOO_LONG__</i> <i>COMMUNICATION_ENDED</i>	
	<i>THERMAL_PROTECTION</i>	
	<i>PRODUCT_NOT_OPERATIONAL</i>	
	<i>FILTER_MAINTENANCE_NEEDED</i>	
	<i>BATTERY_LEVEL</i>	
	<i>TARGET_MODIFIED</i>	
	<i>MODE_NOT_IMPLEMENTED</i>	
	<i>COMMAND_INCOMPATIBLE_TO_MOVEMENT</i>	
	<i>USER_ACTION</i>	
	<i>DEAD_BOLT_ERROR</i>	
	<i>AUTOMATIC_CYCLE_ENGAGED</i>	
	<i>WRONG_LOAD_CONNECTED</i>	
	<i>COLOUR_NOT_REACHABLE</i>	
	<i>TARGET_NOT_REACHABLE</i>	
	<i>BAD_INDEX_RECEIVED</i>	
	<i>COMMAND_OVERRULED</i>	
	<i>NODE_WAITING_FOR_POWER</i>	
	<i>INFORMATION_CODE</i>	
	<i>PARAMETER_LIMITED</i>	
	<i>LIMITATION_BY_LOCAL_USER</i>	
	<i>LIMITATION_BY_USER</i>	
	<i>LIMITATION_BY_RAIN</i>	
	<i>LIMITATION_BY_TIMER</i>	
	<i>LIMITATION_BY_UPS</i>	
	<i>LIMITATION_BY_UNKNOWN_DEVICE</i>	
	<i>LIMITATION_BY_SAAC</i>	
	<i>LIMITATION_BY_WIND</i>	
	<i>LIMITATION_BY_MYSELF</i>	
	<i>LIMITATION_BY_AUTOMATIC_CYCLE</i>	
	<i>LIMITATION_BY_EMERGENCY</i>	

**Table 177 - StatusReply parameter description.**

 VELUX A/S Accessories		

#### 10.1.3.8 InformationCode parameter

### 10.1.4 GW\_COMMAND\_REMAINING\_TIME\_NTF


Table 178 - GW\_COMMAND\_REMAINING\_TIME\_NTF frame format.

#### 10.1.4.1 SessionID parameter

#### 10.1.4.2 Index parameter

#### 10.1.4.3 NodeParameter parameter

#### 10.1.4.4 Seconds parameter

### 10.1.5 GW\_SESSION\_FINISHED\_NTF


Table 179 - GW\_SESSION\_FINISHED\_NTF frame format.

#### 10.1.5.1 SessionID parameter

### 10.1.6 GW\_COMMAND\_SEND\_REQ frame examples








**Table 182 - GW\_COMMAND\_SEND\_REQ example 3.**

[illegible]

**Table 183 - GW\_COMMAND\_SEND\_REQ example 4.**

[illegible]

**Table 184 - GW\_COMMAND\_SEND\_REQ example 5.**

10.2 STOP

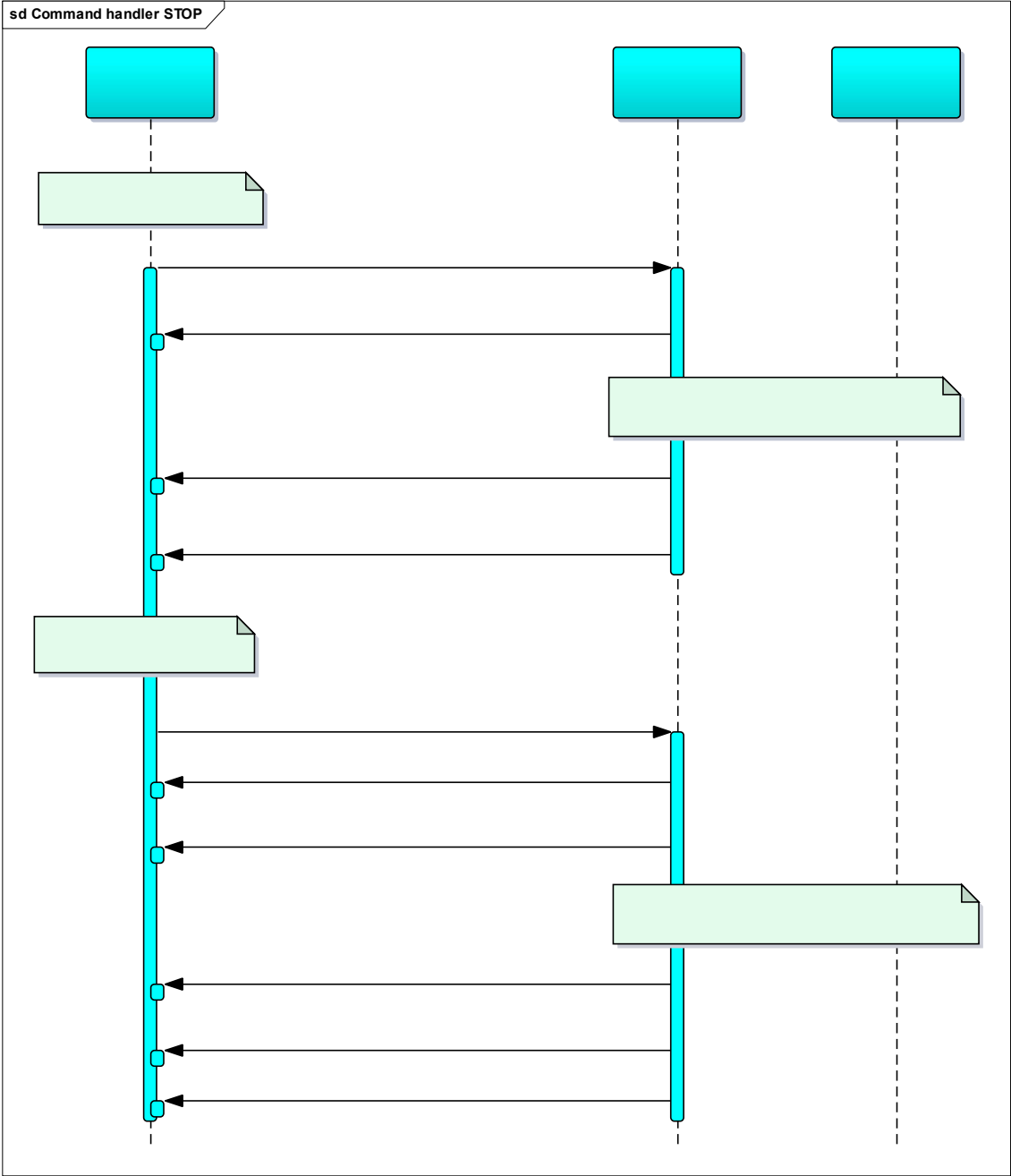


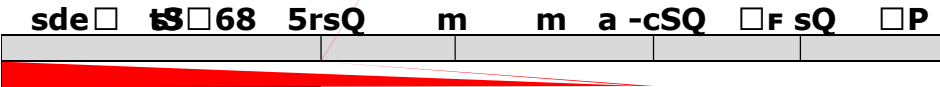
Figure 17 - Sequence diagram, Stop activated node.


<div> <div>VELUX®</div> <div>VELUX A/S Accessories</div> </div>		

10.3 Status request

Figure 18 - Sequence diagram, Status request

10.3.1 GW\_STATUS\_REQUEST\_REQ



 VELUX A/S Accessories		

--	--

Table 186 - StatusType parameter.

#### 10.3.1.4.1 Target position

#### 10.3.1.4.2 Current position

#### 10.3.1.4.3 Remaining time

#### 10.3.1.4.4 Main info.

#### 10.3.1.5 FPI1 and FPI2 parameters

### 10.3.2 GW\_STATUS\_REQUEST\_CFM


Table 187 - GW\_STATUS\_REQUEST\_CFM frame format.

#### 10.3.2.1 Status parameter

#### 10.3.2.2 SessionID parameter

### 10.3.3 GW\_STATUS\_REQUEST\_NTF



Table 188 - GW\_STATUS\_REQUEST\_NTF frame format, when StatusType = "Target Position" or "Current Position" or "Remaining Time".


 VELUX A/S Accessories		




Table 189 - GW\_STATUS\_REQUEST\_NTF frame format, when StatusType = "Main Info".

#### 10.3.3.1 SessionID parameter

#### 10.3.3.2 bStatusID parameter


Table 190 - StatusID parameter description.

#### 10.3.3.3 NodeIndex parameter

#### 10.3.3.4 RunStatus parameter

#### 10.3.3.5 StatusReply parameter

#### 10.3.3.6 StatusType parameter

#### 10.3.3.7 StatusCount parameter

#### 10.3.3.8 ParameterData parameter


 VELUX A/S Accessories		


Table 191 - ParameterData entry format.

**10.3.3.8.1    NodeParameter parameter**

**10.3.3.8.2    ParameterValue parameter**

**10.3.3.9        TargetPosition parameter**

**10.3.3.10      CurrentPosition parameter**

**10.3.3.11      RemainingTime parameter**

**10.3.3.12      LastMasterExecutionAddress parameter**

**10.3.3.13      LastCommandOriginator parameter**

**10.3.4 GW\_SESSION\_FINISHED\_NTF**

```

sequenceDiagram
    participant L1
    participant L2
    participant L3
    L1->>L2: 
    L2-->>L1: 
    L1-->>L2: 
    L2->>L1: 
    L2->>L1: 
    L2->>L1: 
    Note over L2: S
  
```

**Figure 19 - Sequence diagram for send WINK command.**



  


**Table 192 - GW\_WINK\_SEND\_REQ frame format.**

#### 10.4.1.4 WinkState parameter


**Table 193 - WinkState parameter description.**



 VELUX A/S Accessories		

#### 10.4.1.5 WinkTime parameter


Table 194 - bWinkTime parameter description.

#### 10.4.1.6 IndexArrayCount parameter

#### 10.4.1.7 IndexArray parameter

### 10.4.2 GW\_WINK\_SEND\_CFM


Table 195 - GW\_WINK\_SEND\_CFM frame format.

#### 10.4.2.1 Status parameter


Table 196 - Status parameter description.

### 10.4.3 GW\_COMMAND\_RUN\_STATUS\_NTF

### 10.4.4 GW\_WINK\_SEND\_NTF


Table 197 - GW\_WINK\_SEND\_NTF frame format.

## 10.5 Limitation

10.5.1 Set limitation

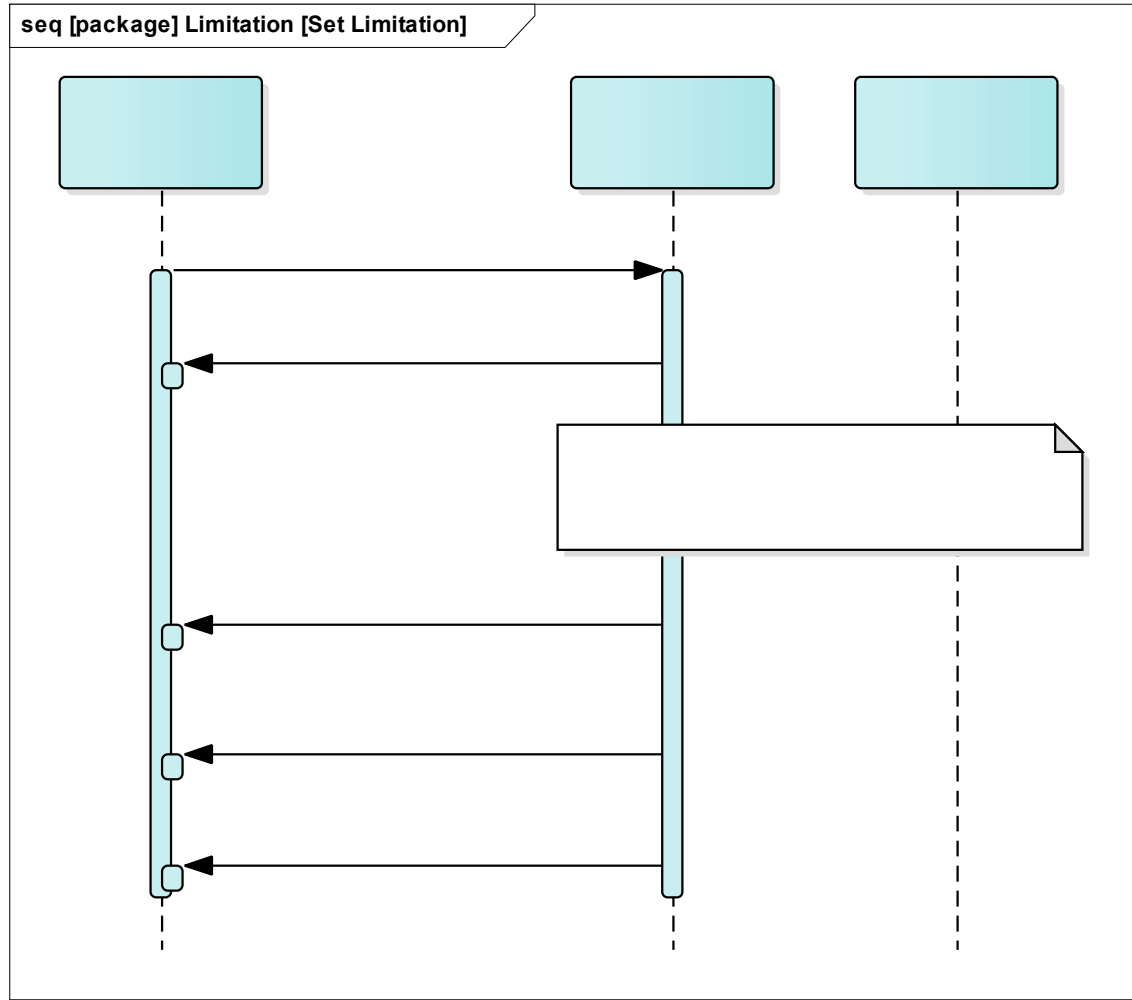


Figure 20 - Sequence diagram, Set limitation. Note: GW\_LIMITATION\_STATUS\_NTF is only send if the limitation is set successfully.

10.5.2 GW\_SET\_LIMITATION\_REQ



Table 198 - GW\_SET\_LIMITATION\_REQ frame format.

10.5.2.1 SessionID parameter

10.5.2.2 CommandOriginator parameter





 VELUX A/S Accessories		

**10.5.4.4 MinValue parameter**

**10.5.4.5 MaxValue parameter**

**10.5.4.6 LimitationOriginator parameter**

**10.5.4.7 LimitationTime parameter**

**10.5.5 GW\_COMMAND\_RUN\_STATUS\_NTF**

**10.5.6 GW\_SESSION\_FINISHED\_NTF**

**10.5.7 Get limitation**

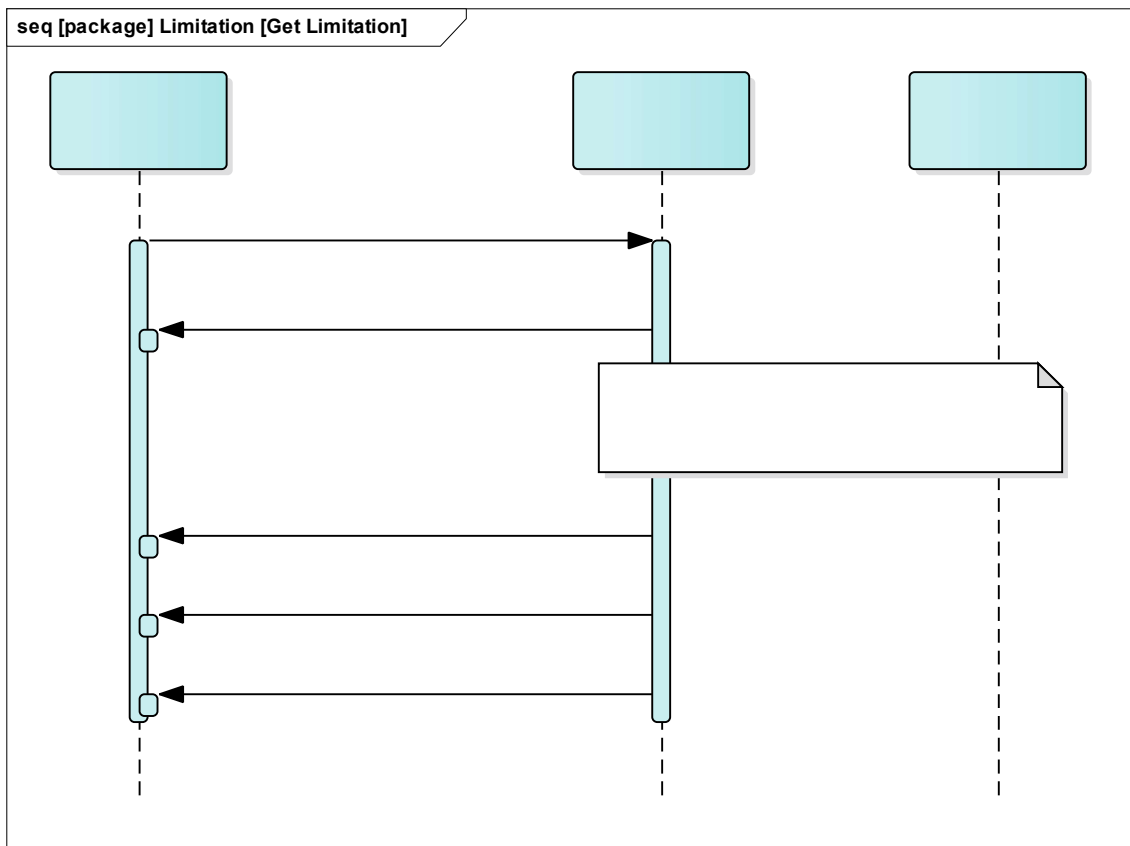



Figure 21 - Sequence diagram , Get limitation.

<b>VELUX®</b> VELUX A/S Accessories		

10.5.8 **GWS\_GET\_FET\_LIMITATION\_STATUS\_REQ** MI ☐

012ans

--	--	--	--

 VELUX A/S Accessories		

## 10.5.12 GW\_SESSION\_FINISHED\_NTF

## 10.6 Mode

### 10.6.1 GW\_MODE\_SEND\_REQ



Table 208 - GW\_MODE\_SEND\_REQ frame format.

*SessionID, COmmandOriginator, PriorityLevel, IndexArrayCount, IndexArray, PriorityLevelLock, PL-0\_3, PL\_4\_7 LockTime*

#### 10.6.1.1 ModeNumber parameter

#### 10.6.1.2 ModeParameter parameter

### 10.6.2 GW\_MODE\_SEND\_CFM


Table 209 - GW\_MODE\_SEND\_CFM frame format.

#### 10.6.2.1 Status parameter


 VELUX A/S Accessories		

--	--

Table 210 - Status parameter description.

**10.6.2.2      SessionID parameter**

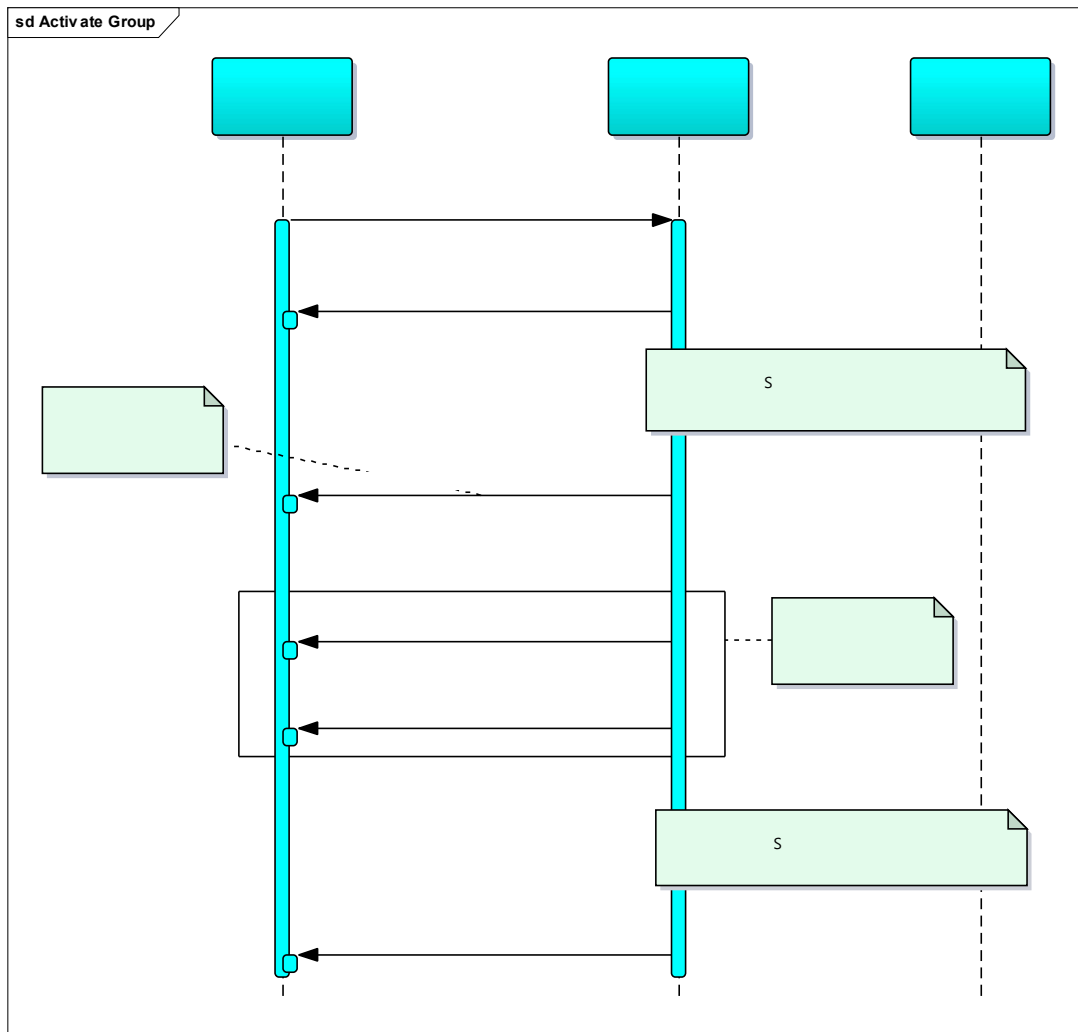
**10.6.3 GW\_COMMAND\_RUN\_STATUS\_NTF**

**10.6.4 GW\_COMMAND\_REMAINING\_TIME\_NTF**

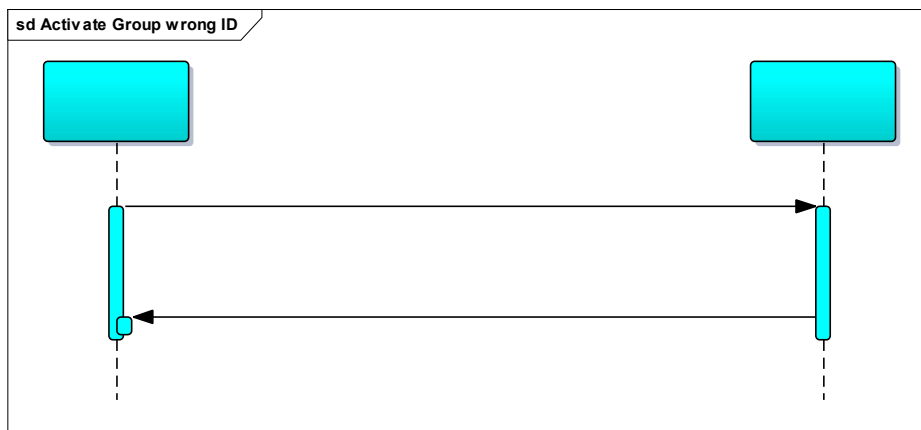
**10.6.5 GW\_SESSION\_FINISHED\_NTF**

**10.7 Product Group Activation**






**Figure 22 – Activate group sequence diagram.**



**Figure 23 – Activate group with wrong ID sequence diagram.**

### 10.7.1 GW\_ACTIVATE\_PRODUCTGROUP\_REQ

--	--	--	--	--

 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

--	--	--	--	--


Table 211 - GW\_ACTIVATE\_PRODUCTGROUP\_REQ frame format.

**10.7.1.1        SessionID parmeter**


**10.7.1.2        CommandOriginator parameter**

**10.7.1.3        PriorityLevel parameter**

**10.7.1.4        ProductGroupID parameter**

**10.7.1.5        ParameterID parameter**

**10.7.1.6        Position parameter**

 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

#### 10.7.1.7 Velocity parameter

	<i>DEFAULT</i>	
	<i>SILENT</i>	
	<i>FAST</i>	
	-	

Table 212 - Velocity parameter description.

#### 10.7.1.8 PriorityLevelLock parameter



Table 213 - PriorityLevelLock parameter

#### 10.7.1.9 PL\_0\_3 and PL\_4\_7 parameters

##### Priority level information



Table 214 - Priority Level Information numbers.

##### Priority Level Lock Information Bytes



Table 215 - Priority level lock bytes.

#### 10.7.1.10 LockTime parameter


 <b>VELUX</b> VELUX A/S Accessories		


Table 216 - LockTime parameter description.

### 10.7.2 GW\_ACTIVATE\_PRODUCTGROUP\_CFM


Table 217 - GW\_ACTIVATE\_PRODUCTGROUP\_CFM frame format.

#### 10.7.2.1 SessionID parameter

#### 10.7.2.2 Status parameter


Table 218 - Status parameter description.

# 11 Scenes

- 
- 
- 
- 

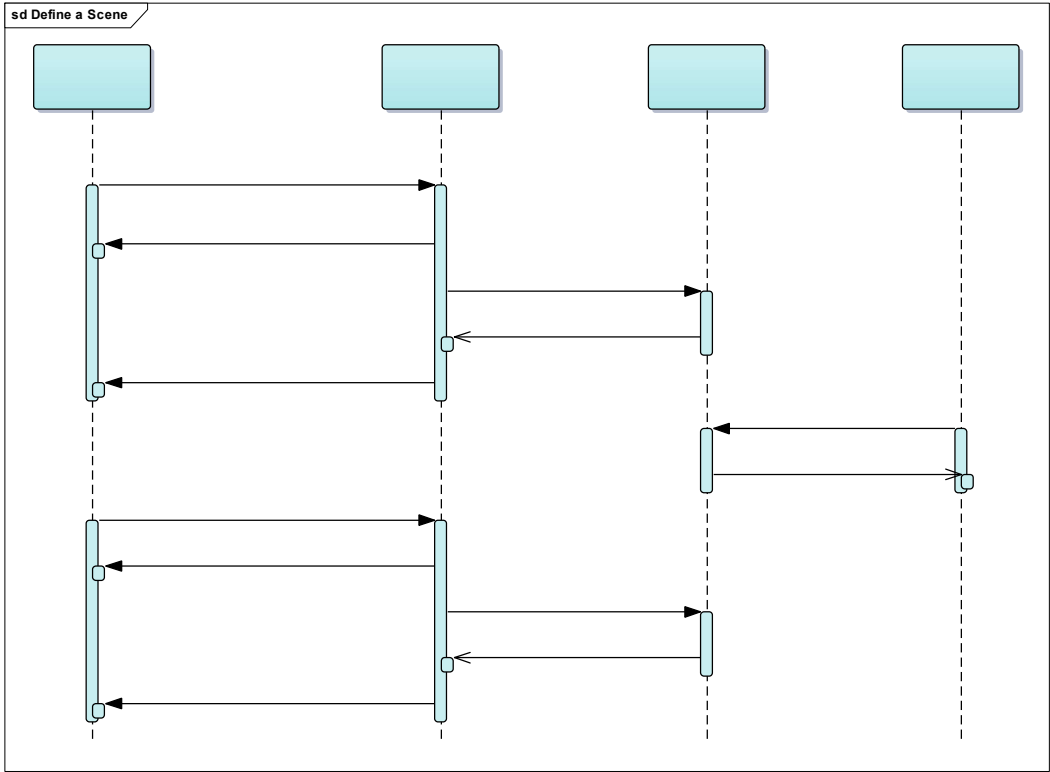


Figure 24 - Sequence diagram show how a scene is defined.

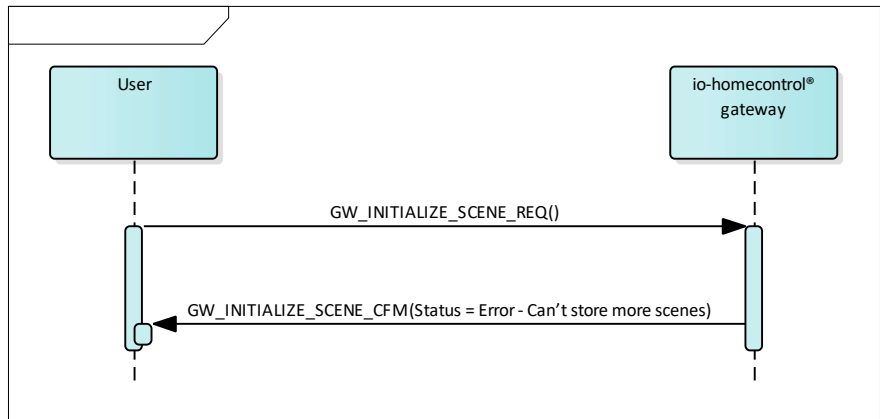


Figure 25 - Sequence diagram show when out of memory for scene slot.

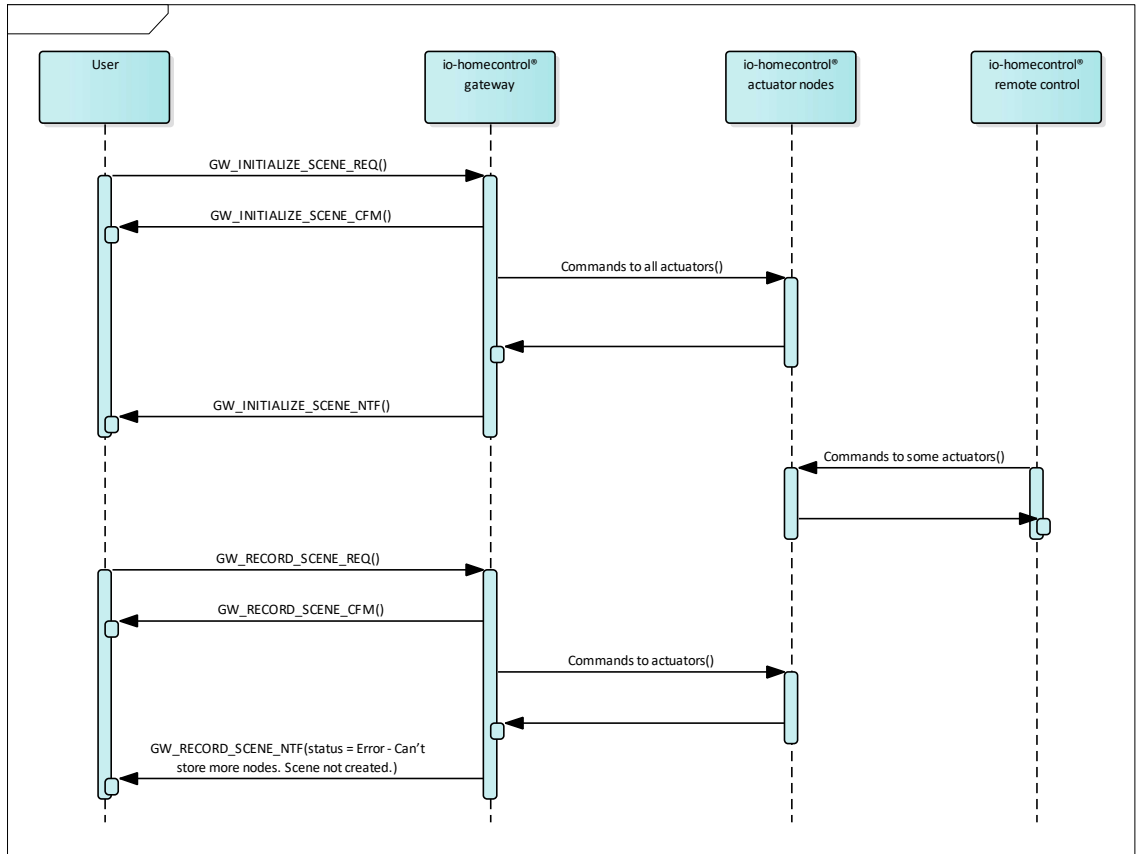



Figure 26 - Sequence diagram show when out of memory for node slot.

## 11.1 Define a new scene

 VELUX A/S Accessories		

### 11.1.1 Prepare Gateway and io-homecontrol® nodes

#### 11.1.2 GW\_INITIALIZE\_SCENE\_REQ


Table 219 - GW\_INITIALIZE\_SCENE\_REQ frame format.

#### 11.1.3 GW\_INITIALIZE\_SCENE\_CFM


Table 220 - GW\_INITIALIZE\_SCENE\_CFM frame format.

##### 11.1.3.1 Status


Table 221 - Status parameter description.

#### 11.1.4 GW\_INITIALIZE\_SCENE\_NTF


Table 222 - GW\_INITIALIZE\_SCENE\_NTF frame format.

##### 11.1.4.1 Status


Table 223 – Status parameter description.

##### 11.1.4.2 NodeState

## 11.2 Initialize scene Cancel command set

#### 11.2.1 GW\_INITIALIZE\_SCENE\_CANCEL\_REQ


Table 224 - GW\_INITIALIZE\_SCENE\_CANCEL\_REQ frame format.


<b>VELUX A/S Accessories</b>		



 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		

**11.4.3.1      Status**


**Table 231 – Status parameter description.**

 VELUX A/S Accessories		

#### 11.5.2.1 Status


Table 234 - Status parameter description.

#### 11.5.2.2 SceneID

### 11.6 Rename a scene

#### 11.6.1 GW\_RENAME\_SCENE\_REQ


Table 235 - GW\_RENAME\_SCENE\_REQ frame format.

##### 11.6.1.1 SceneID parameter

##### 11.6.1.2 SceneName parameter

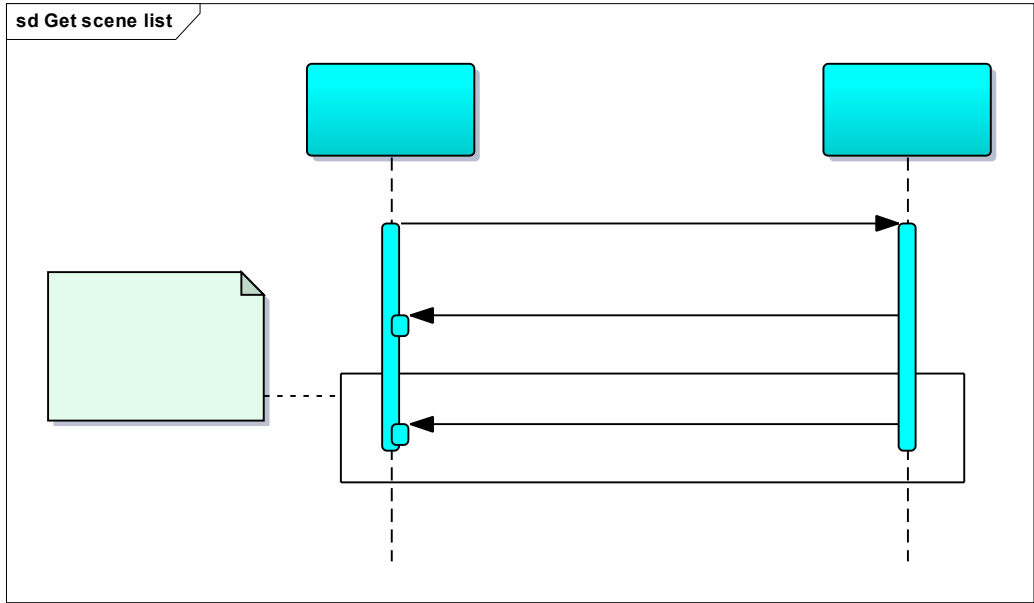

Table 236 - GW\_RENAME\_SCENE\_CFM frame format.

##### 11.6.1.3 Status


Table 237 - Status parameter description.

##### 11.6.1.4 SceneID

11.7 Get a list of scenes



11.7.1 GW\_GET\_SCENE\_LIST\_REQ


Table 238 - GW\_GET\_SCENE\_LIST\_REQ frame format.

11.7.2 GW\_GET\_SCENE\_LIST\_CFM


Table 239 - GW\_GET\_SCENE\_LIST\_CFM frame format.

11.7.2.1 TotalNumberOfObjects

11.7.3 GW\_GET\_SCENE\_LIST\_NTF


Table 240 - GW\_GET\_SCENE\_LIST\_NTF frame format. Note n ∈ {65; 130; 195}.


Table 241 - GW\_GET\_SCENE\_LIST\_NTF frame format for empty scene list.

11.7.3.1 NumberOfObject parameter

<div> <div>VELUX®</div> <div>VELUX A/S Accessories</div> </div>		

### 11.7.3.2      SceneListObjects parameter


Table 242 - Frame format of the parameter SceneListObjects.


Table 243 - Scene list object structure.

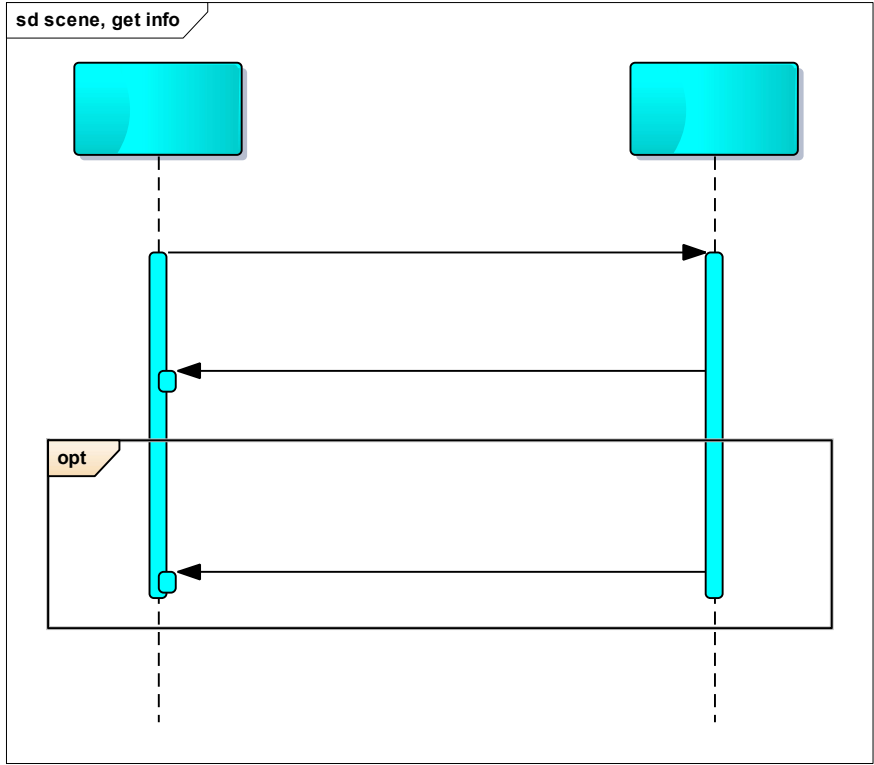
### 11.7.3.3      SceneID parameter


### 11.7.3.4      SceneName parameter

### 11.7.3.5      RemainingNumberOfObject parameter

≠

## 11.8 Get information of one scene



 VELUX A/S Accessories		

### 11.8.1 GW\_GET\_SCENE\_INFOAMATION\_REQ


Table 244 - GW\_GET\_SCENE\_INFOAMATION\_REQ frame format.

#### 11.8.1.1 SceneID parameter

### 11.8.2 GW\_GET\_SCENE\_INFORMATION\_CFM


Table 245 - GW\_GET\_SCENE\_INFOMRATION\_CFM frame format.

#### 11.8.2.1 Status


Table 246 - Status parameter description.

#### 11.8.2.2 SceneID

### 11.8.3 GW\_GET\_SCENE\_INFORMATION\_NTF



Table 247 - GW\_GET\_SCENE\_INFORMATION\_NTF frame format. Note  $n \in \{70; 74; 78; \dots; 246\}$ .

#### 11.8.3.1 NumberOfNodesObjects

#### 11.8.3.2 NodeObjects


Table 248 - One NodeObject instance.

#### 11.8.3.3 RemaningNodeObjects

 VELUX A/S Accessories		

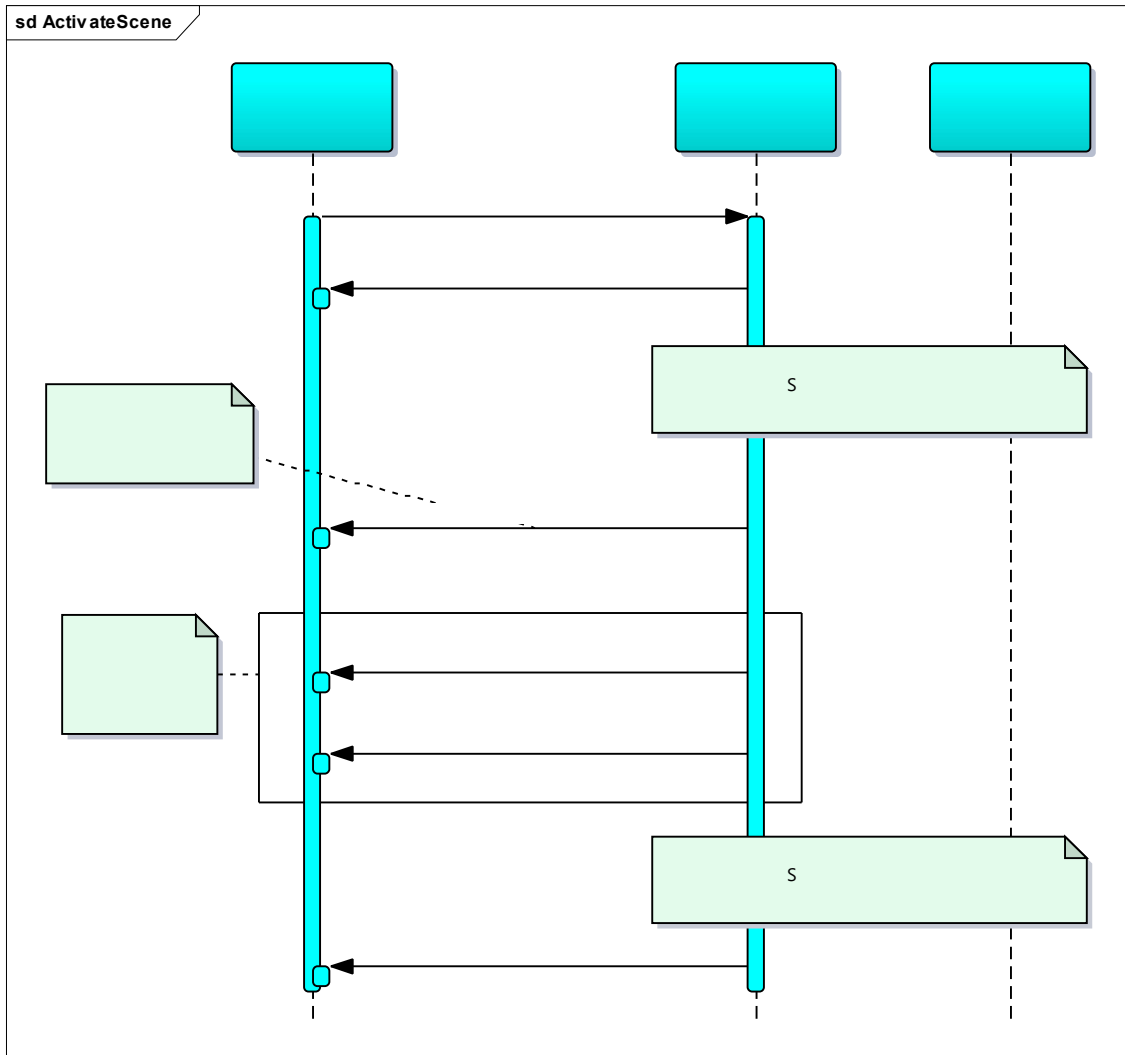
**11.9 Scene information change notification**

**11.9.1 GW\_SCENE\_INFORMATION\_CHANGED\_NTF**

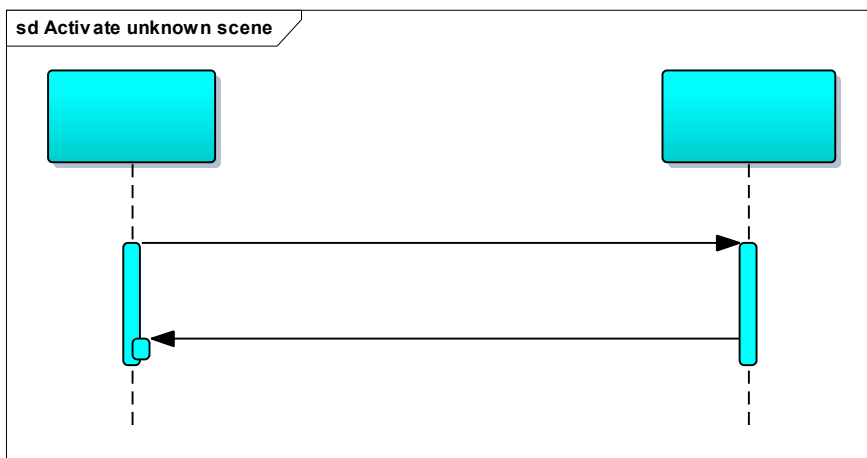

Table 249 - GW\_SCENE\_INFORMATION\_CHANGED\_NTF frame format.

**11.9.1.1 ChangeType**



## 11.10 Activate a scene



**Figure 28 – Activate scene sequence diagram.**



**Figure 29 – Activate unknown scene sequence diagram.**

 VELUX A/S Accessories		

### 11.10.1 GW\_ACTIVATE\_SCENE\_REQ


Table 251 - GW\_ACTIVATE\_SCENE\_REQ frame format.

#### 11.10.1.1 SessionID parameter

#### 11.10.1.2 CommandOriginator parameter

#### 11.10.1.3 PriorityLevel parameter

#### 11.10.1.4 SceneID parameter

#### 11.10.1.5 Velocity parameter

	DEFAULT	
	SILENT	
	FAST	
	-	

Table 252 - Velocity parameter description.

### 11.10.2 GW\_ACTIVATE\_SCENE\_CFM



Table 253 - GW\_ACTIVATE\_SCENE\_CFM frame format.

#### 11.10.2.1 Status


Table 254 - Status parameter description.

#### 11.10.2.2 SessionID



 VELUX A/S Accessories		

### 11.10.3 GW\_COMMAND\_RUN\_STATUS\_NTF

### 11.10.4 GW\_COMMAND\_REMAINING\_TIME\_NTF

### 11.10.5 GW\_SESSION\_FINISHED\_NTF

## 11.11 Stop an activated scene

### 11.11.1 GW\_STOP\_SCENE\_REQ


Table 255 - GW\_STOP\_SCENE\_REQ frame format.

#### 11.11.1.1 SessionID parameter

#### 11.11.1.2 CommandOriginator parameter

#### 11.11.1.3 PriorityLevel parameter

#### 11.11.1.4 SceneID parameter

### 11.11.2 GW\_STOP\_SCENE\_CFM


Table 256 - GW\_STOP\_SCENE\_CFM frame format.

#### 11.11.2.1 Status


Table 257 - Status parameter description.

#### 11.11.2.2 SessionID

### 11.11.3 GW\_SESSION\_FINISHED\_NTF

 VELUX A/S Accessories		

# 12 Contact input interface

## 12.1.1 GW\_SET\_CONTACT\_INPUT\_LINK\_REQ




Table 258 - GW\_SET\_CONTACT\_INPUT\_LINK\_REQ frame format for empty scene list.

### 12.1.1.1 ContactInputID parameter

### 12.1.1.2 ContactInputAssignment parameter



Table 259 - ContactInputAssignment value description.

### 12.1.1.3 ActionID parameter

### 12.1.1.4 ParameterID parameter

### 12.1.1.5 Position parameter

### 12.1.1.6 Velocity parameter

 <b>VELUX</b> <sup>®</sup> VELUX A/S Accessories		


**Table 260 - Velocity parameter description.**

#### **12.1.1.7      CommandOriginator parameter**


**Table 261 - CommandOriginator parameter description**


#### **12.1.1.8      PriorityLevel parameter**

#### **12.1.1.9      LockPriorityLevel parameter**


**Table 262 - LockPriorityLevel parameter description.**

#### **12.1.1.10      PLI\_3, PLI\_4, PLI\_5, PLI\_6 and PLI\_7 parameters**


**Table 263 - PLI\_3, PLI\_4, PLI\_5, PLI\_6 and PLI\_7 parameter value description.**

 VELUX A/S Accessories		

#### 12.1.1.11 SuccessOutputID parameter


Table 264 – SuccessOutputID parameter value description.

#### 12.1.1.12 ErrorOutputID parameter


Table 265 - ErrorOutputID parameter value description.

#### 12.1.2 GW\_SET\_CONTACT\_INPUT\_LINK\_CFM


Table 266 - GW\_SET\_CONTACT\_INPUT\_LINK\_CFM frame format for empty scene list.

##### 12.1.2.1 Status parameter


Table 267 - Status parameter

#### 12.1.3 GW\_REMOVE\_CONTACT\_INPUT\_LINK\_REQ


Table 268 - GW\_REMOVE\_CONTACT\_INPUT\_LINK\_REQ frame format for empty scene list.

#### 12.1.4 GW\_REMOVE\_CONTACT\_INPUT\_LINK\_CFM


Table 269 - GW\_REMOVE\_CONTACT\_INPUT\_LINK\_CFM frame format.


##### 12.1.4.1 Status parameter


Table 270 - Status parameter

#### 12.1.5 GW\_GET\_CONTACT\_INPUT\_LINK\_LIST\_REQ


Table 271 - GW\_GET\_CONTACT\_INPUT\_LINK\_LIST\_REQ frame format.



 VELUX A/S Accessories		

## 13 Appendix 1: Standard Parameter definition

Relative			
Percent+-			
Target			
Current			
Default			
Ignore			

Table 275 - Access Methods.

### 13.1 Relative

### 13.2 Percent+-


### 13.3 Target

### 13.4 Current











<b>VELUX®</b> VELUX A/S Accessories		

**13.5 Default**

**13.6 Ignore**

 VELUX A/S Accessories		

## 14 Appendix 2: List of actuator types and their use of Main Parameter and Functional Parameters

					Generic Function: MP Speed	Generic Function: Tilting Speed	Generic Function: Tilting
 1		Interior Venetian Blind					
 2		Roller Shutter					
 2.1			Adjustable slats rolling shutter				
2.2			With projection				
 3		Vertical Exterior Awning					
 4		Window opener					
 4.1			Window opener with integrated rain sensor				
 5		Garage door opener					
●/○ 5.58							
 6		Light					
●/○ 6.58			Light only supporting on/off				
 7		Gate opener					
●/○ 7.58							
 9		Door lock					
9.1		Window lock					



<b>VELUX®</b> VELUX A/S Accessories		
















 <b>10</b>		<b>Vertical Interior Blinds</b>					
 <b>13</b>		<b>Dual Roller Shutter</b>					
 <b>15</b>		<b>On/Off switch</b>					
 <b>16</b>		<b>Horizontal awning</b>					
 <b>17</b>		<b>Exterior Venetian blind</b>					
 <b>18</b>		<b>Louver blind</b>					
 <b>19</b>		<b>Curtain track</b>					
 <b>20</b>		<b>Ventilation point</b>					
 <b>20.1</b>			<b>Air inlet</b>				
 <b>20.2</b>			<b>Air transfer</b>				
 <b>20.3</b>			<b>Air outlet</b>				
 <b>21</b>		<b>Exterior heating</b>					
 <b>21.58</b>							
 <b>24</b>		<b>Swinging Shutters</b>					
 <b>24.1</b>			<b>Swinging Shutter with independent handling of the leaves</b>				

Table 276 - Actuator list.





[illegible]

[illegible]

[illegible]

 <b>VELUX</b> <sup>®</sup> <b>VELUX A/S Accessories</b>		


**Table 278 - List of KLF 200 API commands.**