OPEN PROTOCOL FOR ELECTRICAL NETWORKS

My Open Web Net
WHO = 24

Brand	Item
Legrand	
BTicino	

Document History

Version	Date	Author
1.0.0	30/03/2012	My Open Staff
Updating description:	First Version	

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WHO = 24 LIGHTING MANAGEMENT

In this document you can find the Open frames which implement lightning function of a My Home system.

1 Table WHAT

1#PROFILE_ID	Profile Frame
2#[0-1]	Slave Offset Enable/Disable

2 Table WHERE

RECIPIENT		SENDER
LM_zone_num **#** dev_type & sys_addr	**#00#**	LM_zone_num **#** dev_type & sys_addr

LM_zone_num

Code	Description
0	No zones
1000+zone number	Zone selection
1000	Every zones

dev_type

Code	Description
1	BMNE500/002645 device
99991	Lighting Console
9991	Virtual Configurator
4	Broadcast
8	Unknown

sys_addr

From number 1 to 9

2.1 Examples

- Configuration software: maintained level set frame: *#24*1001#8#00#0#8*#3*200##
- Lighting console: new maintained level value for a zone: *#24*1001#11#00#0#999911*#3*200## (Sys_addr of BMNE500 is 1, sys_addr of lighting console is 1 too)

- Lighting console: request of zone's maintained level value: *#24*1001#11#00#0#999911*3##
- BMNE500: response to Lighting console request of zone's maintained level value: *#24*0#99991#00#1001#11*3*200##
- BMview: request of Centralised LUX-value frame *#24*1000#4#00#0#8*18#65##
- BMNE500: answer for BMview request *#24*0#8#00#1001#11*18#65*297*0##

3 Table DIMENSIONS

1	Switch ON
2	Max Lux
3	Maintained Level
4	Automatic Switch ON
5	Switch ON Delay
6	Automatic Switch OFF
7	Switch OFF Delay
8	Delay Timer
9	Stand-by Timer
10	Stand-by value
11	Off value
12	Slave Offset (GAP) value
17	State (Automatic/Manual/Stop)
18	Centralised Lux value

4 Open messages: command session

4.1 Set up Switch On Level

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Client -> Server</td><td rowspan="3">*#24*WHERE*#1*Switch_on##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Switch_on
1-100</td><td>The increase of the luminosity intensity of the light point at switch on for presence; expressed as a percentage value:

1= lower luminosity intensity
100=maximum luminosity intensity</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*1*Switch_on##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Switch_on 1-100	The increase of the luminosity intensity of the light point at switch on presence; expressed as a percentage value: 1= lower luminosity intensity 100=maximum luminosity intensity

4.2 Set up Max Lux Level

Commands session	Open frames	Notes	
TCP/IP: Client -> Server	*#24*WHERE*#2*Max_lux##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Max_lux 1-2000	Maximum level supplied by lamps; expressed in LUX value: 1= lower luminosity intensity 2000=maximum luminosity intensity

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*2*Max_lux##	WHERE:	
		1000 + zone_num **#** dev_type & sys_addr **#**00**#** 1000 + zone_num **#** dev_type & sys_addr	
		Max_lux 1-2000	Maximum level supplied by lamps; expressed in LUX value: 1= lower luminosity intensity 2000=maximum luminosity intensity

4.3 Set up Maintained Level

Commands session	Open frames	Notes	
TCP/IP: Client -> Server	*#24*WHERE*#3*Maint_lev##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Maint_lev 0-2000	Default light level to be maintained; expressed as LUX value: 0= lower luminosity intensity 2000=maximum luminosity intensity

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Server -> Client</td><td rowspan="3">*#24*WHERE*3*Maint_lev##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Maint_lev
0-2000</td><td>Default light level to be maintained; expressed as LUX value:

0= lower luminosity intensity
2000=maximum luminosity intensity</td></tr>
</table>

4.4 Set Auto Switch On Enable/Disable

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Client -> Server</td><td rowspan="3">*#24*WHERE*#4*Auto_sw_on##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Auto_sw_on
0-1</td><td>Automatic switch on of lamps :

0= disable
1=enable</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes
TCP/IP: Server -> Client	*#24*WHERE*4* Auto_sw_on ##	WHERE:

		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Auto_sw_on 0-1	Automatic switch on of lamps : 0= disable 1=enable

4.5 Set up Switch On Delay

Commands session	Open frames	Notes	
TCP/IP: Client -> Server	*#24*WHERE*#5*Sw_on_delay##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Sw_on_delay 0-300	Delay of answer occurring when the light level is varying; expressed in seconds

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*5*Sw_on_delay##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Sw_on_delay 0-300	Delay of answer occurring when the light level is varying; expressed in seconds

4.6 Set Auto Switch Off Enable/Disable

Commands session	Open frames	Notes	
TCP/IP: Client -> Server	*#24*WHERE*#6*Auto_sw_off##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Auto_sw_off 0-1	Automatic switch off of lamps : 0= disable 1=enable

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Server -> Client</td><td rowspan="3">*#24*WHERE*6* Auto_sw_off##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Auto_sw_off
0-1</td><td>Automatic switch off of lamps :

0= disable
1=enable</td></tr>
</table>

4.7 Set up Switch Off Delay

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Client -> Server</td><td rowspan="3">*#24*WHERE*#7*Sw_off_delay##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Sw_off_delay
0-900</td><td>Time after which the central unit switches off the lights if the automatic switch is selected; expressed in seconds</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*7*Sw_off_delay##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Sw_off_delay 0-900	Time after which the central unit switches off the lights if the automatic switch is selected; expressed in seconds

4.8 Set up Delay Timer

Commands session	Open frames	Notes	
TCP/IP: Client -> Server	*#24*WHERE*#8*Delay_timer##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Delay_timer 0-3600	Time after which, if the sensor does not detect any presence, it takes lights to OFF value; expressed in seconds

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*8*Delay_timer##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Delay_timer 0-3600	Time after which, if the sensor does not detect any presence, it takes lights to OFF value; expressed in seconds

4.9 Set up Stand-by Timer

Commands session	Open frames	Notes	
TCP/IP: Client -> Server	*#24*WHERE*#9*Standby_timer##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Standby_timer 0-900	Time after which, if the sensor does not detect any presence, it drops the light level to a level which is lower than the default one ; expressed in seconds

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*9*Standby_timer##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Standby_timer 0-900	Time after which, if the sensor does not detect any presence, it drops the light level to a level which is lower than the default one ; expressed in seconds

4.10 Set up Stand-by Value

Commands session	Open frames	Notes	
TCP/IP: Client -> Server	*#24*WHERE*#10*Standby_val##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Standby_val 0-100	Light level to which lights are dimmed after a certain stand-by timer;expressed as a percentage value: 1= lower luminosity intensity 100=maximum luminosity intensity

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Server -> Client</td><td rowspan="3">*#24*WHERE*10*Standby_val##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Standby_val
0-100</td><td>Light level to which lights are dimmed after a certain stand-by timer; expressed as a percentage value:

1= lower luminosity intensity
100=maximum luminosity intensity</td></tr>
</table>

4.11 Set up OFF Value

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Client -> Server</td><td rowspan="3">*#24*WHERE*#11*Off_val##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Off_val
0-100</td><td>It is the light value at switch OFF; expressed as a percentage value:

0= lower luminosity intensity
100=maximum luminosity intensity</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Server -> Client</td><td rowspan="3">*#24*WHERE*11*Off_val##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Off_val
0-100</td><td>It is the light value at switch OFF; expressed as a percentage value:

0= lower luminosity intensity
100=maximum luminosity intensity</td></tr>
</table>

4.12 Set up Slave Offset (GAP) value

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Client -> Server</td><td rowspan="3">*#24*WHERE*#12*Slave_offset##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Slave_offset
0-100</td><td>Level which dimmers in master mode shall reach before the switching-on of dimmers in slave mode; expressed as a percentage value</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Server -> Client</td><td rowspan="3">*#24*WHERE*12*Slave_offset##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Slave_offset
0-100</td><td>Level which dimmers in master mode shall reach before the switching-on of dimmers in slave mode; expressed as a percentage value</td></tr>
</table>

4.13 Set State

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="4">TCP/IP:
Client ->
Server</td><td rowspan="4">*#24*WHERE*#17*MOD*EXIT*TIME##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>MOD
0-2</td><td>Functioning mode of the zone:

0 STOP
1 AUTOMATIC
2 MANUAL</td></tr>
<tr><td>EXIT
1-5</td><td>Condition to return to Automatic mode:

1 TIME mode
2 FOR mode
3 PROFILE mode
4 NORMAL mode
5 NEVER mode</td></tr>
<tr><td>TIME
[0-23]*[0-59]*[0-59]</td><td>Time or duration for Exit mode (“time” or “for”)</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="5">TCP/IP: Server-> Client</td><td rowspan="5">*#24*WHERE*17*MOD*EXIT*TIME##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>MOD
0-2</td><td>Functioning mode of the zone:
0 STOP
1 AUTOMATIC
2 MANUAL</td></tr>
<tr><td>EXIT
1-5</td><td>Condition to return to Automatic mode:
1 TIME mode
2 FOR mode
3 PROFILE mode
4 NORMAL mode
5 NEVER mode</td></tr>
<tr><td>TIME
[0-23]*[0-59]*[0-59]</td><td>Time or duration for Exit mode (“time” or “for”)</td></tr>
</table>

4.14 Set Centralised lux-value

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="5">TCP/IP:
Client ->
Server</td><td rowspan="5">*#24*WHERE*#18*
Sensor_addr*Lux_level*Err ##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Sensor_addr</td><td>Address of the sensor</td></tr>
<tr><td>Lux_level</td><td>Light intensity wants to set; expressed in LUX value</td></tr>
<tr><td>Err
0-2</td><td>0 - all sensors have every parameters needed
1 - sensor is not in configuration
2 - sensor present but doesn't have all parameters needed</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="5">TCP/IP:
Server ->
Client</td><td rowspan="5">*#24*WHERE*18*
Sensor_addr*Lux_level*Err ##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Sensor_addr</td><td>Address of the sensor</td></tr>
<tr><td>Lux_level</td><td>Light intensity seted; expressed in LUX value</td></tr>
<tr><td>Err
0-2</td><td>0 - all sensors have every parameters needed
1 - sensor is not in configuration
2 - sensor present but doesn't have all parameters needed</td></tr>
</table>

4.15 Activation Profile Frame

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="4">TCP/IP:
Client -> Server</td><td rowspan="4">*24*1#Profile_ID*WHERE##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Profile_ID</td><td>Identification profile number</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

4.16 Enable/Disable Slave Offset

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Client -> Server</td><td rowspan="3">*24*2#Slave_offset_flag*WHERE##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Slave_offset_flag
0-1</td><td>Enable/disable Slave Offset

0 Disable
1 Enable</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

5 Open messages: Request commands

5.1 Switch ON level request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*1##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*1*Switch_on##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Switch_on 1-100	The increase of the luminosity intensity of the light point at switch on presence; expressed as a percentage value: 1= lower luminosity intensity 100=maximum luminosity intensity

5.2 Max Lux Level request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*2##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*2*Max_lux##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Max_lux 1-2000	Maximum level supplied by lamps; expressed in LUX value: 1= lower luminosity intensity 2000=maximum luminosity intensity

5.3 Maintained Level request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*3##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*3*Maint_lev##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Maint_lev 0-2000	Default light level to be maintained; expressed as LUX value: 0= lower luminosity intensity 2000=maximum luminosity intensity

5.4 Request Auto Switch On Enable/Disable

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*4##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*4* Auto_sw_on ##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Auto_sw_on 0-1	Automatic switch on of lamps : 0= disable 1=enable

5.5 Switch On Delay request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*5##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*5*Sw_on_delay##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Sw_on_delay 0-300	Delay of answer occurring when the light level is varying; expressed in seconds

5.6 Request Auto Switch Off Enable/Disable

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*6##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*6* Auto_sw_off##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Auto_sw_off 0-1	Automatic switch off of lamps : 0= disable 1=enable

5.7 Switch Off Delay request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*7##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*7*Sw_off_delay##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Sw_off_delay 0-900	Time after which the central unit switches off the lights if the automatic switch is selected; expressed in seconds

5.8 Delay Timer request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*8##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*8*Delay_timer##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Delay_timer 0-3600	Time after which, if the sensor does not detect any presence, it takes lights to OFF value; expressed in seconds

5.9 Stand-by Timer request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*9##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*9*Standby_timer##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Standby_timer 0-900	Time after which, if the sensor does not detect any presence, it drops the light level to a level which is lower than the default one ; expressed in seconds

5.10 Stand-by Value request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*10##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*10*Standby_val##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Standby_val 0-100	Light level to which lights are dimmed after a certain stand-by timer; expressed as a percentage value: 0= lower luminosity intensity 100=maximum luminosity intensity

5.11 OFF Value request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*#11*Off_val##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*11*Off_val##	WHERE:	
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Off_val 0-100	It is the light value at switch OFF; expressed as a percentage value: 0= lower luminosity intensity 100=maximum luminosity intensity

5.12 Slave Offset (GAP) value request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*12*##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Commands session	Open frames	Notes	
TCP/IP: Server -> Client	*#24*WHERE*12*Slave_offset##	WHERE: zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr	
		Slave_offset 0-100	Level which dimmers in master mode shall reach before the switching-on of dimmers in slave mode; expressed as a percentage value

5.13 State request

Commands session	Open frames	Notes
TCP/IP: Client -> Server	*#24*WHERE*17##	WHERE:
		zone_num **#** dev_type & sys_addr **#**00**#** zone_num **#** dev_type & sys_addr

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="5">TCP/IP: Server-> Client</td><td rowspan="5">*#24*WHERE*17*MOD*EXIT*TIME##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>MOD
0-2</td><td>Functioning mode of the zone:
0 STOP
1 AUTOMATIC
2 MANUAL</td></tr>
<tr><td>EXIT
1-5</td><td>Condition to return to Automatic mode:
1 TIME mode
2 FOR mode
3 PROFILE mode
4 NORMAL mode
5 NEVER mode</td></tr>
<tr><td>TIME
[0-23]*[0-59]*[0-59]</td><td>Time or duration for Exit mode (“time” or “for”)</td></tr>
</table>

5.14 Centralised lux-value request

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="3">TCP/IP:
Client ->
Server</td><td rowspan="3">*#24*WHERE*18*Sensor_addr##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Sensor_addr</td><td>Address of the sensor</td></tr>
</table>

TCP/IP Server -> Client	*#*1## or *#*0##	**ACK:** if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="5">TCP/IP:
Server ->
Client</td><td rowspan="5">*#24*WHERE*18*
Sensor_addr*Lux_level*Err##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Sensor_addr</td><td>Address of the sensor</td></tr>
<tr><td>Lux_level</td><td>Light intensity detected;
expressed in LUX value</td></tr>
<tr><td>Err
0-2</td><td>0 - all sensors have every parameters needed (NO errors)
1 - sensor is not in configuration
2 - sensor present but doesn't have all parameters needed</td></tr>
</table>

6 Open messages: Event sessions

6.1 State change

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="5">TCP/IP: Server-> Client</td><td rowspan="5">*#24*WHERE*17*MOD*EXIT*TIME##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>MOD
0-2</td><td>Functioning mode of the zone:
0 STOP
1 AUTOMATIC
2 MANUAL</td></tr>
<tr><td>EXIT
1-5</td><td>Condition to return to Automatic mode:
1 TIME mode
2 FOR mode
3 PROFILE mode
4 NORMAL mode
5 NEVER mode</td></tr>
<tr><td>TIME
[0-23]*[0-59]*[0-59]</td><td>Time or duration for Exit mode (“time” or “for”)</td></tr>
</table>

6.2 Centralised lux-value

<table>
<tr><th>Commands session</th><th>Open frames</th><th colspan="2">Notes</th></tr>
<tr><td rowspan="5">TCP/IP:
Server ->
Client</td><td rowspan="5">*#24*WHERE*18*
Sensor_addr*Lux_level*Err##</td><td colspan="2">WHERE:</td></tr>
<tr><td colspan="2">zone_num # dev_type & sys_addr
#00#
zone_num # dev_type & sys_addr</td></tr>
<tr><td>Sensor_addr</td><td>Address of the sensor</td></tr>
<tr><td>Lux_level</td><td>Light intensity detected; expressed in LUX value</td></tr>
<tr><td>Err
0-2</td><td>0 - all sensors have every parameters needed (no errors)
1 - sensor is not in configuration
2 - sensor present but doesn't have all parameters needed</td></tr>
</table>

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