

OPEN PROTOCOL FOR ELECTRICAL NETWORKS

My Open Web Net WHO = 1

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WHO = 1 LIGHTNING

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

1. Table WHAT

0	OFF	
0#speed	OFF at x speed	
1	ON	
1#speed	ON at x speed	
2	20%	
3	30%	
4	40%	
5	50%	
6	60%	
7	70%	
8	80%	
9	90%	
10	100%	
11	ON timed 1 min	
12	ON timed 2 min	
13	ON timed 3 min	
14	ON timed 4 min	
15	ON timed 5 min	
16	ON timed 15 min	
17	ON timed 30 sec	
18	ON timed 0,5 sec	
19	NO Load (only for dimmer)	
20	Blinking for 0,5 sec	
21	Blinking for 1 sec	
22	Blinking for 1,5 sec	
23	Blinking for 2 sec	
24	Blinking for 2,5 sec	
25	Blinking for 3 sec	
26	Blinking for 3,5 sec	
27	Blinking for 4 sec	
28	Blinking for 4,5 sec	
29	Blinking for 5 sec	
30	Up one level (only for dimmer)	
30#level#speed	Up y levels at x speed (only for dimmer)	
31	Down one level (only for dimmer)	
31#level#speed	Down y levels at x speed (only for dimmer)	

2. Table WHERE

0	General
1	Environment 1
9	Environment 9
11	Light Point 11
12	Light Point 12
	Light Foint 12
19	Light Point 10
21	Light Point 19
22	Light Point 21
	Light Point 22
29	Light Doint 20
	Light Point 29
31	Light Point 31
32	Light Point 32
	Links Deins 00
39	Light Point 39
41	Light Point 41
42	Light Point 42
•••	
49	Light Point 49
51	Light Point 51
52	Light Point 52
59	Light Point 59
61	Light Point 61
62	Light Point 62
69	Light Point 69
71	Light Point 71
72	Light Point 72
79	Light Point 79
81	Light Point 81
82	Light Point 82
89	Light Point 89
91	Light Point 91
92	Light Point 92
99	Light Point 99
#1	Group 1
#2	Group 2
	•
#9	Group 9
ĦЭ	Group a

3. Table Dimensions

1	Set y level at x speed
2	Timers

4. Open messages: commands session

4.1Light OFF command (WHAT 0)

Commands session	Open frame	Notes		
			is set in the PUL configuration, the General or nt command can't be performed by light points controlled by actuator.	
			WHERE:	
		0	General command (every light points in the system)	
	*1*0*WHERE##	1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)	
TCP/IP: Client -> Server		#1 - #9	Group command (every light point belonging to a specific group of the entire system)	
		11 -99	Point to Point command	
		0#4#I	General command on Local Bus (level 4) with I interface	
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.	
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.	
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.	
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		

Events session	Open frames	Notes
TCP/IP: Server -> Client	*1*0*WHERE##	WHERE = the address of the controlled Actuator. If it is a <i>General, Environment</i> or <i>Group</i> command, on the events connection, is sent the same frame as in the command session. If it i9s a <i>General</i> or <i>Environment</i> command, on the events connection, is not sent the actuators status. If it is a <i>Group</i> command, on the events connection, is sent the status of actuators belonging to a specific group. If it is a <i>Point to Point</i> command, on the events connection, is sent the light point commanded status.

4.2 Light off at x speed command (WHAT 0#speed)

Command session	Open frames	Notes			
		General o	tor is set in the PUL configuration, the return the Environment command can't be ed by light points controlled by the actuator.		
			WHERE:		
		0	General command (every light points in the system)		
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)		
		#1 - #9	Group command (every light point belonging to a specific group of the entire system)		
TCP/IP: Client -> Server	*1*0#speed*WHERE##	11 -99	Point to Point command		
Client -> Server		0#4#I	General command on Local Bus (level 4) with I interface		
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.		
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.		
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.		
		Speed: 0 - 255	Turn OFF the light at a pre- established speed. 0 = immediately 255 = maximum delay		
TCP/IP Server -> Client	*#*1## or *#*0##		if the command is sent to the Bus the command is not sent to the Bus		

Events session	Open frames	Notes
		WHERE = The address of the controlled actuator.
		If it is a <i>General</i> , <i>Environment</i> , or <i>Group</i> command, on the events connection, is sent the same frame as in the commands connection.
TCP/IP: Server -> Client	*1*0#speed*WHERE## *#1*DOVE*1*level*speed##	If it is a <i>Point to Point</i> command, on the events connection, is sent the status of the controlled light point.
		Level = 100 Light point luminous intensity. In this case is set up at 100 value that indicates the switching off status.
		Speed = [0 - 255] It indicates the speed of switching off a light point.

4.3 Switch on light command (WHAT 1)

Commands session	Open Frames	Notes	
		If the actuator is set in the PUL configuration, the <i>General</i> or the <i>Environment</i> command <u>can't be performed</u> by light points controlled by the actuator.	
		If a light	point is disabled the command can't be performed.
			WHERE:
		0	General command (every light points in the system)
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)
TCP/IP: Client -> Server	*1*1*WHERE##	#1 - #9	Group command (every light point belonging to a specific group of the entire system)
		11 -99	Point to Point command
		0#4#I	General command on Local Bus (level 4) with I interface
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.
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	

Events session	Open frame	Notes
TCP/IP: Server -> Client	*1*1*WHERE## TCP/IP: Only for dimmers	WHERE = The address of the controlled actuator. If it is a <i>General</i> , <i>Environment</i> , or <i>Group</i> command, on the events connection, is sent the same frame as in the commands connection. If it is a <i>General</i> or <i>Environment</i> command, on the events connection, it is not sent the status of the actuator. If it is a <i>Group</i> command it will be displayed the status of the actuators belonging to a specific group.
^1^[2-10]^WHERE## 0		0
	is sent and the what field returns of the dimmer parameter (what=210). If there is no load the frame *1*19*where## is sent for anomaly report.	

4.4 Light ON a light at X speed (WHAT 1#speed)

Commands session	Open frames		Notes
		General o	tor is set in the PUL configuration, the r the <i>Environment</i> command <u>can't be ed</u> by light points controlled by the actuator.
			WHERE:
		0	General command (every light points in the system)
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)
T00/10	*1*1#speed*WHERE##	#1 - #9	Group command (every light point belonging to a specific group of the entire system)
TCP/IP: Client -> Server		11 -99	Point to Point command
		0#4#I	General command on Local Bus (level 4) with I interface
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.
		Speed: 0 - 255	Switch on a light at e pre-established speed: 0 = immediately 255 = maximum delay
TCP/IP Server -> Client	*#*1## or *#*0##		if the command is sent to the Bus the command is not sent to the Bus

Events session	Open frames	Notes
TCP/IP: Server -> Client	*1*1#speed*WHERE## *#1*WHERE*1*level*speed##	WHERE= The address of the controlled actuator. If it is a <i>General</i> , <i>Environment</i> , or <i>Group</i> command, on the events connection, is sent the same frame as in the commands connection. If it is a <i>Point to Point</i> command, on the events session, it will be sent the status of the controlled light point. Level = 100 Light point luminosity intensity; in this case it is set at 100 because it indicates the switch off command.
		Speed =[0 - 255] It indicates the speed of switching OFF the light point.

4.5 Dimmer luminosity from 20% to 100% (WHAT 2-10)

Commands session	Open frames	Notes		
		or the Envir	ner is configured as PUL, the <i>General</i> conment command can't be performed. ner is disabled, the command can't be	
			<u>performed</u> .	
			WHERE:	
		0	General command (every light points in the system)	
	1[2–10] *DOVE##	1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)	
TCP/IP:		#1 - #9	Group command (every light point belonging to a specific group of the entire system)	
Client -> Server		11 -99	Point to Point command	
		0#4#I	General command on Local Bus (level 4) with I interface	
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.	
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.	
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.	
		Speed: 0 - 255	Switch on a light at e pre-established speed: 0 = immediately 255 = maximum delay	
TCP/IP Server -> Client	*#*1## or *#*0##		if the command is sent to the Bus the command is not sent to the Bus	

Events session	Open frames	Notes
Events session TCP/IP:	*1*[2-10]*DOVE##	WHERE= The address of the controlled actuator. If it is a <i>General</i> , <i>Environment</i> , or <i>Group</i> command, on the events connection <u>is sent</u> the same frame as in the commands connection. If it is a <i>General</i> or <i>Environment</i> command, on the events connection, it <u>is not sent</u> the status of the actuator.
Server -> Client	oppure *1*19*DOVE##	If it is a <i>Group</i> command <u>it will be displayed</u> the status of the actuators belonging to a specific group. If it is a <i>Point to Point</i> command, on the events session, <u>it will be sent</u> the status of the controlled light point.
		If there is no load is sent the *1*19*WHERE## frame in the event of an anomaly report.

4.6 Temporization command (WHAT 11-18)

Command session	Open frames		Notes
			ctuator is set in the PUL configuration, the ral or the Environment command can't be ed by light points controlled by the actuator. In point is disabled the command can't be performed. WHERE:
		0	General command (every light points in the system)
TCP/IP: Client -> Server *1*[11-18]*WHE		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)
	Client -> Server	#1 - #9	Group command (every light point belonging to a specific group of the entire system)
		11 -99	Point to Point command
		0#4#I	General command on Local Bus (level 4) with I interface
		1-9#4#I	Environment command on Local Bus (level 4) with I interface.
		#1-#9#4#I	Group command on Local Bus (level 4) with I interface.
		11-99#4#I	Point to Point command on Local Bus (level 4) with I interface.

Events session	Open frames	Notes
TCP/IP: Server -> Client	*1*1*WHERE## Only for dimmers *1*[2-10]*WHERE## or *1*19*WHERE##	WHERE = The address of the controlled actuator. If it is a General, Environment, or Group command, on the events connection, is sent the same frame as in the commands connection. If it is a General or Environment command, on the events connection, it is not sent the status of the actuator. If it is a Group command it will be displayed the status of the actuators belonging to a specific group. If it is a Point to Point command, on the events session, it will be sent the status of the controlled light point. If the light point is a dimmer then it will be display the following frame: *1*[2-10]*WHERE## Where the field WHAT returns the dimmer's parameter [2-10]. If there is no load is sent the *1*19*WHERE## frame in the event of an anomaly report.

4.7 Light blinking command (WHAT 20-29)

Command session	Open frames		Notes	
			If the actuator is set in the PUL configuration, the <i>General</i> or the <i>Environment</i> command <u>can't be performed</u> by light points controlled by the actuator. If a light point is <i>disabled</i> the command <u>can't be</u> performed.	
			WHERE:	
		0	General command (every light points in the system)	
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)	
		#1 - #9	Group command (every light point belonging to a specific group of the entire system)	
		11 -99	Point to Point command	
		0#4#I	General command on Local Bus (level 4) with I interface	
			1-9#4#I	Environment command on Local Bus (level 4) with I interface.
		#1-#9#4#I	Group command on Local Bus (level 4) with I interface.	
		11-99#4#I	Point to Point command on Local Bus (level 4) with I interface.	

Envents session	Open frames	Notes
TCP/IP: Server -> Client	*1*[20-29]*DOVE##	WHERE = The address of the controlled actuator. If it is a <i>General, Environment</i> , or <i>Group</i> command, on the events connection is sent the same frame as in the commands connection. If it is a <i>General</i> or <i>Environment</i> command, on the events connection it is not sent the status of the actuator. If it is a <i>Group</i> command it will be displayed the status of the actuators belonging to a specific group. If <i>Point to Point</i> command, on the events session, it will be sent the status of the controlled light point.

4.8 UP/DOWN dimmer level command (WHAT 30-31)

Command session	Open frames	Notes		
			nand can be performed only by dimmer actuators. actor is set in the PUL configuration, the	
		General	or the <i>Environment</i> command <u>can't be</u> by light points controlled by the actuator.	
		If a dimr	mer is <i>disabled</i> the command <u>can't be</u> performed.	
			WHERE:	
		0	General command (every light points in the system)	
TCP/IP:	TCP/IP: Client -> Server *1*[2–10] *WHERE##	1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)	
		#1 - #9	Group command (every light point belonging to a specific group of the entire system)	
		11 -99	Point to Point command	
		0#4#I	General command on Local Bus (level 4) with I interface	
			1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.	
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.	

Events session	Open frames	Notes
TCP/IP: Server -> Client	*1*[2-10]*WHERE## oppure *1*19*WHERE##	WHERE = The address of the controlled actuator. If it is a <i>General, Environment</i> , or <i>Group</i> command, on the events connection, is sent the same frame as in the commands connection. If it is a <i>General</i> or <i>Environment</i> command, on the events connection it is not sent the status of the actuator. If it is a <i>Group</i> command it will be displayed the status of the actuators belonging to a specific group. If it is a <i>Point to Point</i> command, on the events session, it will be sent the status of the controlled light point.

4.9 UP/DOWN dimmer of levels at X speed (WHAT 30-31#livello#speed)

Commands session	Open frames	Notes				
		If the actuator is set in the PUL configuration, the <i>General</i> or the <i>Environment</i> command <u>can't be performed</u> by light points controlled by the actuator.				
			WHERE:			
		0	General command (every light points in the system)			
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)			
	TCP/IP: nt -> Server *1*0*DOVE##	#1 - #9	Group command (every light point belonging to a specific group of the entire system)			
		11 -99	Point to Point command			
TCP/IP:		0#4#I	General command on Local Bus (level 4) with I interface			
Client -> Server		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.			
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.			
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.			
		Livello: 1-100	The increase of the luminosity intensity of the light point; expressed as a percentage value: 1= Switching on 100= Switching off			
		Speed: 0 - 255	Set the speed to increase the luminousity: 0 = immediate 255 = maximum delay			

ACK: if the command is sent to the Bus **NACK:** if the command is not sent to the Bus

Events session	Open frames	Notes
TCP/IP: Server -> Client	*1*30-31#speed*WHERE## *#1*WHERE*1*level*speed##	WHERE = The address of the controlled actuator. If it is a <i>General, Environment</i> , or <i>Group</i> command, on the events connection is sent the same frame as in the commands connection. If it is a <i>Point to Point</i> command, on the events session, it will be sent the status of the controlled light point. Level = [1-100] Luminous intensity at which the dimmer is set up. Speed = [0 - 255] It indicates the speed of a light point switching on.

4.10 Light status request command

Commmands session	Frame Open	Note		
	*1*0*DOVE##	WHERE:		
		0	General command (every light points in the system)	
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)	
		#1 - #9	Group command (every light point belonging to a specific group of the entire system)	
TCP/IP:		11 -99	Point to Point command	
Client -> Server		0#4#I	General command on Local Bus (level 4) with I interface	
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.	
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.	
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.	

Commands session	Open frames	Notes
TCP/IP: Server -> Client	*1*WHAT*WHERE ₁ ## *1*WHAT*WHERE _n ## *#*1## 0 *#*0##	WHAT = [0-18],[20-29] (light point status). WHERE= [11-99] (light points addresses situated on the Raiser) =[11-99#4#I] (light point addresses situated on the Local Buses) If a General type request is sent, it returns the light points status that belong to Raiser or the Local Bus. If an Environment type request is sent, it returns the light points status that belong to the specific Environment. If a Group type request is sent, it returns the light points status that belong to the specific Group. If a single light point request is sent, it returns the single light point status. If there are not light points, NACK is returned. If the actuator is set in the PUL configuration, the General; Environment or Group command does not return any answer by light points controlled by the actuator. If a light point is disabled, the status is not sent.
Sessione Eventi	Frame Open	Note
TCP/IP: Server -> Client	*1*COSA*DOVE1## *1*COSA*DOVEn##	See upper comments

4.11 Set up the level at X speed

Commands session	Opne frames		Notes
		the Gener	or is set in the PUL configuration, all or the Environment command formed by light points controller by the actuator.
			WHERE:
	*#1*WHERE*#1*level*speed##	0	General command (every light points in the system)
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)
		#1 - #9	Group command (every light point belonging to a specific group of the entire system)
		11 -99	Point to Point command
TCP/IP: Client -> Server		0#4#I	General command on Local Bus (level 4) with I interface
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.
		Livello: 100-200	The increase of the luminosity intensity of the light point; expressed as a percentage value: 100= switching off 200=maximum luminosity intensity
		Speed: 0 - 255	Turn off the light at a pre- established speed: 0 = immediately 255 = maximum delay

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

Sessione Eventi	Frame Open	Note
TCP/IP: Server -> Client	*1*1#speed*WHERE## *#1*DOVE*1*level*speed##	WHERE = The address of the controlled actuator. If it is a General, Environment, or Group command, on the events connection is sent the same frame as in the commands connection. If it is a Point to Point command, on the events session, it will be sent the status of the controlled light point. Level = [100-200] Luminous intensity at which the dimmer is set up. Speed = [0 - 255] It indicates the speed of a light point switching on.

4.12 Temporization command

Command session	Open frames		Notes
		the General	r is set in the PUL configuration, for the <i>Environment</i> command formed by light points controller by the actuator.
			WHERE:
		0	General command (every light points in the system)
		1 - 9	Environment command (only light points belonging to the specific Raiser of the Environment)
	TCP/IP: Client -> Server *#1*WHERE*#2*hour*min*sec##	#1 - #9	Group command (every light point belonging to a specific group of the entire system)
		11 -99	Point to Point command
		0#4#I	General command on Local Bus (level 4) with I interface
		1 - 9#4#I	Environment command on Local Bus (level 4) with I interface.
		#1 -#9#4#I	Group command on Local Bus (level 4) with I interface.
		11 - 99#4#I	Point to Point command on Local Bus (level 4) with I interface.
		Hour: 0-255	It indicate show many hours the actuator has to stay ON.
		Minutes: 0-59	It indicate show many minutes the actuator has to stay ON.
		Second: 0-59	It indicate show many seconds the actuator has to stay ON.

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

Sessione Eventi	Frame Open	Note
		WHERE = The address of the controlled dimmer.
	*#1*WHERE*#2*hour*min*sec##	If it is a <i>General</i> , <i>Environment</i> , or <i>Group</i> command, on the events connection is sent the same frame as in the commands connection.
TCP/IP: *#1*WHERE*1*level*speed## Server -> Client (only for dimmers with 100 levels)	*#1*WHERE*1*level*speed## (only for dimmers with 100	If it is a <i>Point to Point</i> command, on the events session, it will be sent the status of the controlled light point.
	Level = [100-200] Luminous intensity at which the dimmer is set up.	
		Speed = [0 - 255] It indicates the speed of a light point switching on

5. Open messages: Events session

5.1Light status

Events session	Open frames	Notes
TCP/IP: Server -> Client	*1*WHAT*WHERE##	WHAT = [0-18]. [20-29], [0,1,30,31]#speed (light point status). WHERE = [11-99] (light point address on the Raiser) [11-99#4#I] (light point address on the Local bus). This frame is sent as a consequence of an event that is occurred; such as the switching On of a Light). In the events session it will be displayed frame that indicates a variation in the status of a the light point chosen.

5.2 Luminous intensity change

Events session	Open frames	Notes
TCP/IP: Server -> Client	*#1*WHERE*1*level*speed ##	WHERE = [11-99] (light point address on the Raiser) [11-99#4#I] (light point address on the Local bus). Level = [100-200] Luminous intensity at which the dimmer is set up.
		Speed = [0 - 255] It indicates the speed of a light point switching on.

5.3Light temporization

Events session	Open frames	Notes
TCP/IP: Server -> Client	*#1*WHERE*2*hour*min*sec ##	WHERE = [11-99] (light point address on the Raiser) [11-99#4#I] (light point address on the Local bus). Hour = [0-255] Minutes = [0-59] Seconds = [0-59]

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