# PROTOCOL

# MESSAGE\_TYPE FIELD:

0X0 0X1 0X2 0X3	SERVER ERROR → try reload page GET PROPERTY QUERY MESSAGE GET PROPERTY RESPONSE MESSAGE GET PROPERTY RESPONSE SHORT
0X4	CETT NOT ENTITIES ONSE SHORT
0X5	
0X6	
0X7	
0X8	
0X9	
0X10	PUSH MESSAGE SUBSCRIBE
0X11	PUSH MESSAGE SINGLE UPDATE
0X12	PUSH MESSAGE MULTI-UPDATE 1
0X13	PUSH MESSAGE MULTI-UPDATE 2
0X14	
0X15	

### **GET MESSAGES**

## **GET PROPERTY QUERY MESSAGE**

MESSAGE TYPE 0x1		
PROPE	RTY_ID	Equal 0 = get all properties

### **GET PROPERTY RESPONSE MESSAGE**

MESSAGE TYP	E 0x2			
PROPERTY_ID			Unique sequential identifier	
NAME_LENGTH				
NAME	>>>>>>>	>>>>>>	>>>>>	(max255 character)
VALUE_TYPE				
VALUE	>>>>>>>	>>>>>>	>>>>>	Lenght defined by tvalue type
MAX UPDATE FREQUENCY				1*
MIN UPDATE FREQUENCY				2*
MAX QUEUE LATENCY DI ACCODAMENTO MAX				3*
DESCRIPTION	ON_LENGTH			
DESCRIPTION	>>>>>>	>>>>>>	>>>>>	(max65535 character)
TIME STAMP MSB			Last update timestamp	
TIME STAMP LSB			msb secondi lsb microsecondi	

	VALUE_TYPE
0X0	RESERVED
0X1	
0X2	INT
0X3	FLOAT
0X4	DOUBLE
0X5	BYTE[] addictional lenght??
0x10	NOTIMESTAMP byte
	•••

1\* max trasmission per second else enqueue or drop
 2\* Force server to retrasmit unvaried propeties
 3\* Limit time that a packet could wait in the queue

#### **PUSH MESSAGE SUBSCRIBE**

PACKET TYPE(0x10)

MAX UPDATE FREQUENCY
MIN UPDATE FREQUENCY
MAX QUEUE LATENCY DI ACCODAMENTO MAX

TIPO LIPO ATE CONCENTITO CO

TIPO UPDATE CONSENTITO??

OPZIONI TIMESTAMP(no time stamp, risoluzione time stamp, num sequenziali...?)

#### **PUSH MESSAGE SINGLE UPDATE**

PACKET TYPE(0x11)

### **PUSH MESSAGE MULTI-UPDATE 1**

PACKET TYPE(0x12)

TIME\_STAMP\_MSB

PROPERTY\_ID

**X**LENGHT

#### **PUSH MESSAGE MULTI-UPDATE 1.1**

PACKET TYPE(0x12)

TIME STAMP MSB

PROPERTY ID

LENGHT

TIME STAMP LSB2

TIME STAMP LSB3

	PROPERTY_ID
LENGHT	
VALUE	>>>>>>>>>>>>>>
	TIME STAMP LSB

### **PUSH MESSAGE MULTI-UPDATE 1.2**

PACKET TYPE(0x12) TIME\_STAMP\_MSB Lenght n TIME STAMP LSB 1 TIME STAMP LSB 2 TIME STAMP LSB n PROPERTY\_ID LENGHT TIME STAMP index TIME STAMP index TIME STAMP index PROPERTY ID LENGHT 

### **PUSH MESSAGE MULTI-UPDATE 2**

TIME STAMP index

PACKET TYPE	(0x13)				
TIME_STAMP_MSB					
		TIME STAMP LSB			
LENGHT					
	PROPERTY ID				
VALUE	>>>>>>	>>>>>>			
	PROPERTY_ID				
VALUE	>>>>>>>	>>>>>>			
PROPERTY_ID					
VALUE	>>>>>>>	>>>>>>>			

#### **PUSH MESSAGE MULTI-UPDATE 2.1**

PACKET TY TIME_S		
	STAMP_MSB	
		STAMP LSB
LENGHT	- · · · · · · · · · · · · · · · · · · ·	
	PROPERTY ID	
VALUE	>>>>>>>>>>>>>>>	>>>>>>
	PROPERTY ID	
VALUE	>>>>>>>>>>>>>>	>>>>>>
	PROPERTY_ID	
VALUE	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>
	TIME	STAMP LSB
LENGHT		
	PROPERTY_ID	
VALUE	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>
	TIME	STAMP LSB
LENGHT		
	PROPERTY_ID	
VALUE	>>>>>>>>>>>	>>>>>
	PROPERTY_ID	
VALUE	>>>>>>>>	>>>>>>
	PROPERTY_ID	
VALUE	>>>>>>>>>	>>>>>>
PUSH MESS	GAGE MULTI-UPDATE 2.2	
PACKET TY	PE(0x13)	
PACKET TY		
PACKET TY	PE(0x13) STAMP_MSB	
PACKET TY	PE(0x13)	
PACKET TY	PE(0x13) STAMP_MSB PROPERTY_ID 1	
PACKET TY	PE(0x13) STAMP_MSB PROPERTY_ID 1	
PACKET TY	PE(0x13) STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N	STAMP LSB
PACKET TY	PE(0x13) STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N	STAMP LSB
PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I	PE(0x13)  STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME	
PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I VALUE	PE(0x13)  STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME	
PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I VALUE ROPERTY_I	PE(0x13)  STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME	
PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I VALUE VALUE	PE(0x13)  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME	>>>>>>
PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I VALUE ROPERTY_I VALUE	PE(0x13)  STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME	>>>>>>
LENGHT ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE	PE(0x13)  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME  adex  >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
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LENGHT ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE	PE(0x13)  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME  adex  >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE	PE(0x13)  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME  andex  and	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I LENGHT LENGHT	PE(0x13)  STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME  adex  >>>>>>>>>>>>>>  TIME	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
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PACKET TY TIME_S Lenght n  LENGHT ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE ROPERTY_I VALUE LENGHT ROPERTY_I VALUE	PE(0x13)  STAMP_MSB  PROPERTY_ID 1 PROPERTY_ID 2 PROPERTY_ID N TIME  Index	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Ρ	ROPERTY_Inde	X	
	VALUE	>>>>>>	>>>>>>>>>
PROPERTY_Index			
	VALUE	>>>>>>	>>>>>>>>>

# NOTE

NOTE

2038bug Segnalazione esplicita tagli?