

## General Packet Header

0x000	0xA51C	16 Bit, Packet Magic (internal)
0x002	Value	16 Bit, Packet Size (internal)
0x004	0x0001	16 Bit, Packet Version (internal)
0x006	0x0000	16 Bit, Packet Special Bits (internal)
0x008	Specific Packet Header	

## Specific Packet Header Version 2

0x008	0x00000000			32 Bit, Authorisation ID (optional)
0x00C	0x0001	16 Bit, Packet Index (internal)	0x0002	16 Bit, Request ID (internal)
0x010	0x0000	16 Bit, Subsys/Device ID (optional)	0x0001	16 Bit, Num of Datablocks (internal)
0x014	0x0000	16 Bit, Packet Type (log. and phys., mandatory)	0x0000	16 Bit, Packet Type Param 1 (optional)
0x018	n * Datablock with Packet Data			

## Packet Data for specific Packet Header Ver.2

Offset+0x00	length	16 Bit, Block Length in Bytes (aka gross size)
+0x02	0x0001	16 Bit, Variable ID
+0x04	0x0002	16 Bit, Variable Type
+0x06	0x0001	16 Bit, Num of Elements
	X Bytes, Data itself ... (padded to 32bit boundary)	

## Packet Tail

Offset+0x00	0xC15A	16 Bit, Packet Tail ID (internal)
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### ***Packet ,Type' Code Table***

<i>upper byte (physical)</i>	<i>lower byte (logical)</i>	<i>description</i>	<i>C/C++ #defines</i>	
0x01	0x01	GET request	REQUEST_PHYS	GET_LOGICAL
0x01	0x02	SET request	REQUEST_PHYS	PUT_LOGICAL
0x01	0x03	CALL request	REQUEST_PHYS	CALL_LOGICAL
0x02	0x01	GET response	RESPONSE_PHYS	GET_LOGICAL
0x02	0x02	SET response	RESPONSE_PHYS	PUT_LOGICAL
0x02	0x03	CALL response	RESPONSE_PHYS	CALL_LOGICAL
0x03	0x01	TRAP	TELEGRAM_PHYS	TRAP_LOGICAL
0x03	0x02	UPDATE	TELEGRAM_PHYS	UPDATE_LOGICAL

### Color Legend, Example

0x000	0xA51C	Packet Magic 16 Bit	0x002A	Packet Size 16 Bit	• general packet header field
0x004	0x0001	Packet Version 16 Bit	0xFFFF	Packet Special Bits 16 Bit	• optional field (free for any user-defined value)
0x008	0x00000000			Authorisation ID 32 Bit	•
0x00C	0x0A20	Packet Index 16 Bit	0x1002	Request ID 16 Bit	• specific packet header field (filled internally)
0x010	0x0000	Subsys/Device ID 16 Bit	0x0002	Num of Datablocks 16 Bit	
0x014	Phys Packet Type 0x01 16 Bit	Logic Packet Type 0x01 16 Bit	0x0000	Packet Type Param 1 16 Bit	• specific packet header field (MUST be filled by user)
0x018	0x000C	Block Length in Bytes 16 Bit	0x0001	Variable ID 16 Bit	• data header field
0x01C	0x0007	Variable Type 16 Bit	0x0001	Number of Elements 16 Bit	
0x020	0x00001234 e.g. 4 Bytes (padded to 32bit if necessary)			Data itself	• data area
0x024	0x0010	Block Length in Bytes 16 Bit	0x0002	Variable ID 16 Bit	
0x028	0x000A	Variable Type 16 Bit	0x0008	Variable Size (net) 16 Bit	
0x02C				Data itself	
0x030	„H“ „e“ „l“ „l“ „o“ „_“ „!“ 0x0			Data itself e.g. 8 Bytes (padded to 32bit)	
0x034	0xC15A	16 Bit, Packet Tail ID			• packet tail field

## VARTYPE\_BINARY

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0201 (e.g.)	Variable ID 16 Bit
0x004	0x0001	Variable Type 16 Bit	0x0003 (e.g.)	Number of Elements 16 Bit
0x008	0x11 0x22 0x33 0x00 Data itself e.g. 3 bytes padded to 4 bytes			

## VARTYPE\_FLOAT

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0202 (e.g.)	Variable ID 16 Bit
0x004	0x0002	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit
0x008	0x346572AC Data itself 4 bytes			

## VARTYPE\_DOUBLE

0x000	0x0010	Gross size (bytes) 0x08+0x08	0x0203 (e.g.)	Variable ID 16 Bit
0x004	0x0003	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit
0x008				
0x00C				
	0x346572AC346572AC Data itself 8 bytes			

## VARTYPE\_INT8

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0204 (e.g.)	Variable ID 16 Bit
0x004	0x0004	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit
0x008	0x0000007F Data itself 4 bytes (padded)			

## VARTYPE\_UINT8

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0205 (e.g.)	Variable ID 16 Bit
0x004	0x0005	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit
0x008	0x000000FF Data itself 4 bytes (padded)			

**VARTYPE\_INT16**

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0206 (e.g.)	Variable ID 16 Bit	
0x004	0x0006	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit	
0x008	0x00007FFF				Data itself 4 bytes (padded)

**VARTYPE\_UINT16**

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0207 (e.g.)	Variable ID 16 Bit	
0x004	0x0007	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit	
0x008	0x0000FFFF				Data itself 4 bytes (padded)

**VARTYPE\_INT32**

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0208 (e.g.)	Variable ID 16 Bit
0x004	0x0008	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit
0x008	0x7FFFFFFFFF			Data itself 4 bytes

**VARTYPE\_UINT32**

0x000	0x000C	Gross size (bytes) 0x04+0x08	0x0209 (e.g.)	Variable ID 16 Bit	
0x004	0x0009	Variable Type 16 Bit	0x0001 (e.g.)	Number of Elements 16 Bit	
0x008	0xFFFFFFFF				Data itself 4 bytes

**VARTYPE\_TEXT**

0x000	0x0010	Gross size (bytes) 0x08+0x08	0x020A (e.g.)	Variable ID 16 Bit
0x004	0x000A	Variable Type 16 Bit	0x0007 (e.g.)	Number of Elements 16 Bit
0x008				
0x00C	„P“ „a“ „d“ „d“ „e“ „d“ 0x0 0x0 Data itself e.g. 7 bytes padded to 8 bytes			