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	lengh	*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

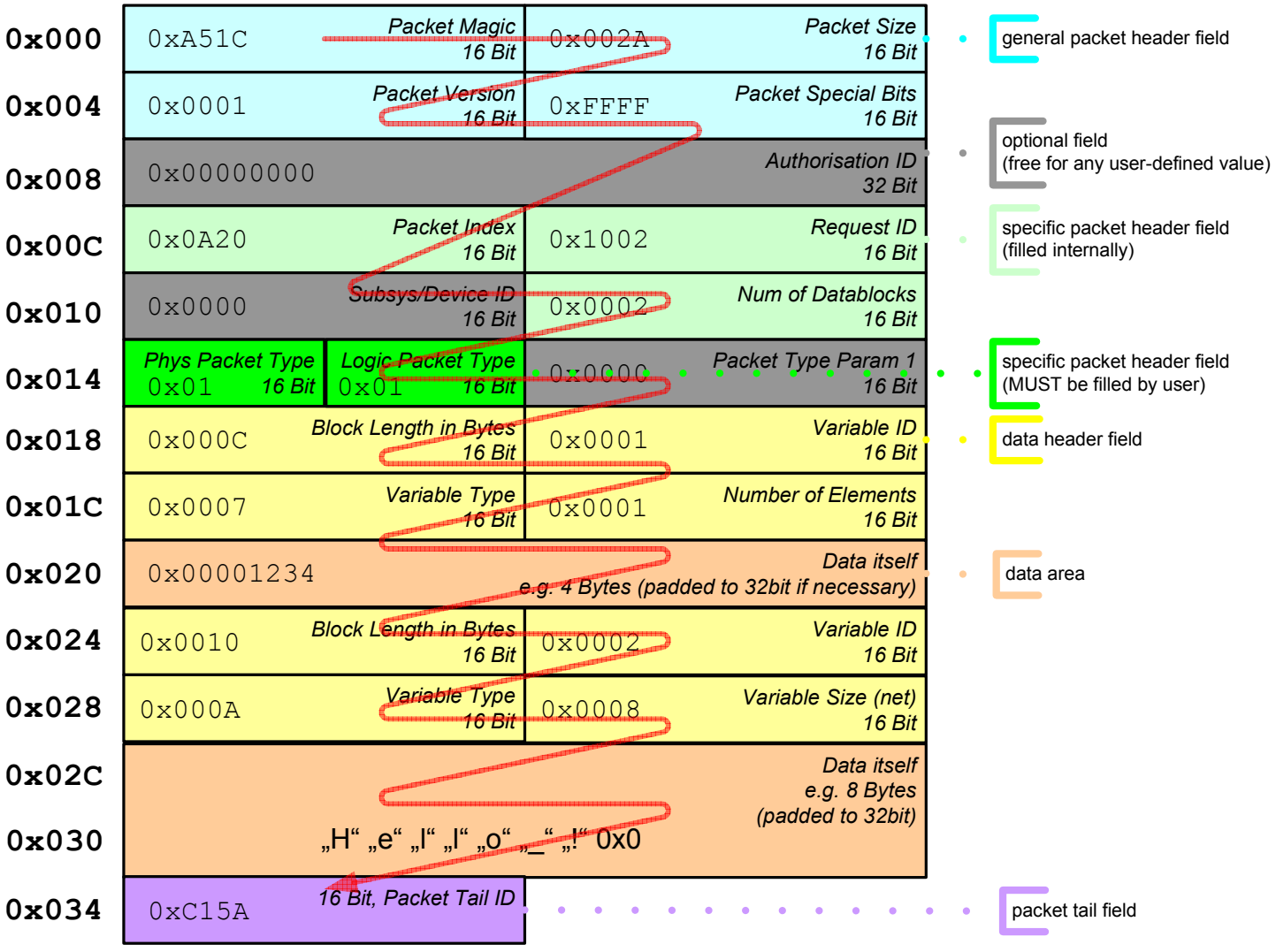
Offset+0x00	0xC15A	*16 Bit, Packet Tail ID (internal)*

Packet ‚Type' Code Table

upper byte (physical)	lower byte (logical)	description	C/C++ #defines	
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

requests
responses
telegrams

Color Legend, Example



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	0x7FFFFFFF			*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*