

HAC Data Protokoll

Byte Header																																																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Target MAC						Seq. Nr.	Flag	Datenlänge (abhängig von Flag)																																Free, 64 is Max Physical Hardwarelimit																							
MAC Adresse des Ziels						Seq. Nr.	Flag	Datenlänge ist abhängig von den																																																							

Flag Bits															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Schwermetalle	Chrom	Nickel	Zinn	Zink	Kupfer	Aluminium	Silber	Gold	Platin	Iridium	Rhodium	Palladium	Selen	Tellur	Antimon
Schwermetalle	Chrom	Nickel	Zinn	Zink	Kupfer	Aluminium	Silber	Gold	Platin	Iridium	Rhodium	Palladium	Selen	Tellur	Antimon
Schwermetalle	Chrom	Nickel	Zinn	Zink	Kupfer	Aluminium	Silber	Gold	Platin	Iridium	Rhodium	Palladium	Selen	Tellur	Antimon

Datatypes																								
Byte	0-255																							
Int16	-32768 - 32767																							
Int32	-2147483648 - 2147483647																							
IP	000000000000 - 255.255.255.255																							
MAC-Addr.	000000000000 - 999999999999																							
RGB 3Bit	Bits																							
	1	2	3	4	5	6	7	8	9	10	11	12	Green			Blue								
RGBW 3Bit	Bits																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Green			Blue			White	

Byte Header (Nothing Ack)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag				

Byte Header (Switch Data)									
1	2	3	4	5	6	7	8	9	10
Target MAC					Seq. Nr.	Flag	Data	Data	Data

Byte Header (Socket Data)													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Target MAC					Seq. Nr.	Flag	Voltage	Current					

Byte Header (Sensor Data)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Target MAC					Seq. Nr.	Flag	Temp	Humidity	CO2	PM2.5	PM10				

Byte Header (E-Relays)													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Target MAC					Seq. Nr.	Flag	Relay 1	Relay 2	Relay 3	Relay 4			

Byte Header (RGB LED 1)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag				

Byte Header (RGB LED 4)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag	R1	G1	B1	W1

Byte Header (RGB LED 8)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Target MAC					Seq. Nr.	Flag	R1	G1	B1	W1	R2	G2	B2	W2	

Byte Header (RGB LED 16)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Target MAC					Seq. Nr.	Flag	R1	G1	B1	W1	R2	G2	B2	W2	

Byte Header (RGBW LED 1)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag				

Byte Header (RGBW LED 4)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag	R1	G1	B1	W1

Byte Header (RGBW LED 8)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Target MAC					Seq. Nr.	Flag	R1	G1	B1	W1	R2	G2	B2	W2	

Byte Header (RGBW LED 16)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Target MAC					Seq. Nr.	Flag	R1	G1	B1	W1	R2	G2	B2	W2	

Byte Header (RGBW LED 32)																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Target MAC					Seq. Nr.	Flag	R1	G1	B1	W1	R2	G2	B2	W2	R3	G3	B3	W3			

Byte Header (Dim Light)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag				

Byte Header (Update MAC)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Target MAC					Seq. Nr.	Flag	New MAC								

Byte Header (Update IP)									
1	2	3	4	5	6	7	8	9	10
Target MAC					Seq. Nr.	Flag	New IP		

Byte Header (Update IP Mask)													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Target MAC					Seq. Nr.	Flag	New Mask						

Byte Header (Update Gateway)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Target MAC					Seq. Nr.	Flag	New Gateway								

Byte Header (Update Interval)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag				

Byte Header (Update Mode)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag				

Byte Header (Request Data)										
1	2	3	4	5	6	7	8	9	10	
Target MAC					Seq. Nr.	Flag				