

Common name	Protocol	Port	Decoded	Sample	Comment	Links to documents		
Event driven data output								
1	Raw data	TCP/IP	10002	no	0x1a,0x31 : 6 byte MLAT, 1 byte signal level, 2 byte Mode-AC 0x1a,0x32 : 6 byte MLAT, 1 byte signal level, 7 byte Mode-S short frame 0x1a,0x33 : 6 byte MLAT, 1 byte signal level, 14 byte Mode-S long frame 0x1a,0x34 : 6 byte MLAT	This is a CRC-checked mirror of the data as it comes from the FPGA, DF-11, DF-17 and DF-18. Includes Mode-A/C data with respect to the configuration setting.	Manual	
2	Verified Raw Data	TCP/IP + UDP/IP	10003	no	0x1a,0x31 : 6 byte MLAT, 1 byte signal level, 2 byte Mode-AC 0x1a,0x32 : 6 byte MLAT, 1 byte signal level, 7 byte Mode-S short frame 0x1a,0x33 : 6 byte MLAT, 1 byte signal level, 14 byte Mode-S long frame 0x1a,0x34 : 6 byte MLAT	Binary formatted raw data with all Mode-S data formats CRC-prechecked (eliminates transmission of the erroneous frames, reduces load on the network). All data from the FPGA is disassembled into messages and verified if correct. Includes Mode A/C data.	Manual	
3	ADS-B Raw Data	TCP/IP + UDP/IP	10004	no	0x1a,0x32 : 6 byte MLAT, 1 byte signal level, 7 byte Mode-S short frame 0x1a,0x33 : 6 byte MLAT, 1 byte signal level, 14 byte Mode-S long frame 0x1a,0x34 : 6 byte MLAT	Binary formatted raw data, pre-checked DF-11, DF-17 and DF-18 only: minimum load for the transmission path but contains most information. No Mode-A/C data.	Manual	
4	Non ADS-B Raw Data	TCP/IP + UDP/IP	10005	no	0x1a,0x32 : 6 byte MLAT, 1 byte signal level, 7 byte Mode-S short frame 0x1a,0x33 : 6 byte MLAT, 1 byte signal level, 14 byte Mode-S long frame 0x1a,0x34 : 6 byte MLAT	Binary formatted raw data, only raw data frames of those aircraft where the location (latitude and longitude) is unknown. Used for special MLAT purposes. No Mode-A/C data.	Manual	
5	Verified Mode-S Raw Data	TCP/IP + UDP/IP	10006	no	0x1a,0x32 : 6 byte MLAT, 1 byte signal level, 7 byte Mode-S short frame 0x1a,0x33 : 6 byte MLAT, 1 byte signal level, 14 byte Mode-S long frame 0x1a,0x34 : 6 byte MLAT	Binary formatted raw data with all Mode-S data formats CRC-prechecked (eliminates transmission of the erroneous frames, reduces load on the network). All data from the FPGA is disassembled into messages and verified if correct. No Mode A/C data.	Manual	
6	Port 30003 format (Pseudo NMEA)	TCP/IP + UDP/IP	30003	yes	SEL,,496,2286,4CA4E5,27215,2010/02/19,18:06:07.710,2010/02/19,18:06:07.710,RYR1427 ID,,496,7162,405637,27928,2010/02/19,18:06:07.115,2010/02/19,18:06:07.115,EZY691A AIR,,496,5906,400F01,27931,2010/02/19,18:06:07.128,2010/02/19,18:06:07.128 STA,,5,179,400AE7,10103,2008/11/28,14:58:51.153,2008/11/28,14:58:51.153,RM CLK,,496,-1,-1,2010/02/19,18:18:19.036,2010/02/19,18:18:19.036 MSG,1,145,256,7404F2,11267,2008/11/28,23:48:18.611,2008/11/28,23:53:19.161,RJA1118,,,,,,,,	ASCII output format for different types of packets received. No Mode A/C data.	Format definition	Analyzer
7	Asterix CAT 021 (V0.23) + CAT 023 + CAT 247	UDP/IP		yes	binary, according to Eurocontrol Specification	available as an option	Eurocontrol CAT021 V0.23	Application Note
8	Asterix CAT 021 (V1.8) + CAT 023 + CAT 247	UDP/IP		yes	binary, according to Eurocontrol Specification	available as an option	Eurocontrol CAT021 V1.8	
9	Asterix CAT 021 (V2.4) + CAT 023 + CAT 247	UDP/IP		yes	binary, according to Eurocontrol Specification	available as an option	Eurocontrol CAT021 V2.4	
State driven data output								
10	HTML Aircraft Table (caller: http://[PlaneTRack]/aircraftlist.html)	HTTP (HTML)	80	yes	Live demo see link last column	A list of received aircraft can be fetched via a built-in Web server. This list can be sorted ascending and descending in each column by simply clicking on the arrows. Distances are automatically calculated from aircraft positions and home coordinates.	Manual	

