| 11-Mar-2022 | | | Bytes Allocate | 252 | | | | | | | | | | | | | | | | MAX: 255 bytes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C3 Firmware | | | | | Yamcs | | | Grafana | Yamcs / Grafana | | | | | | | | | Grafana | |
| | Subsystem | Data | Raw Data Type | # Bytes | Beacon Offset | Calibrator function (raw to eng value) | Yamcs Eng Data Type | Yamcs Eng Units | Implemented? | Min | Severe Min | Critical Min | Warning Min | Watch Min | Watch Max | Warning Max | Critical Max | Severe Max | Max | Notes |
| APRS | Packet | APRS Header | UINT8 | 16 | 0 | | String | N/A | TRUE | - | - | - | - | - | - | - | - | - | - | APRS Header |
| APRS | Packet | Data type identifier | UINT8 | 3 | 10 | | String | N/A | TRUE | - | - | - | - | - | - | - | - | - | - | "{{z" User-Defined APRS packet format |
| APRS | Packet | Satellite ID | UINT8 | 1 | 13 | | Enum String | N/A | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | 0 = OreSat0, 1 = Oresat0.5, 2 = OreSat1 |
| APRS | Packet | Revision | UINT8 | 1 | 14 | | Integer | Count | TRUE | 0 | - | - | - | - | - | - | 1 | - | 255 | APRS version #; curently 1 |
| C3 | M4 | OreSat0 State | CHAR | 1 | 15 | | Enum String | N/A | TRUE | A | - | - | - | B | - | - | E | - | F | Character representing C3 critical state. A=predploy, B=Deploy, C=standby, D=beacon, E=EDL |
| C3 | M4 | Uptime | UINT32 | 4 | 16 | | Integer | Seconds | TRUE | - | - | - | - | - | - | - | - | - | - | Stick at 0xFFFFFF if we reach 194 days of uptime :) |
| C3 | RTC | Time | UINT32 | 4 | 1A | | Datetime string | N/A | TRUE | - | - | - | - | - | - | - | - | - | - | SCET coarse timestamp with UNIX epoch |
| C3 | WDT | # power cycles | UINT16 | 2 | 1E | | Integer | Count | TRUE | 0 | - | - | - | - | 2 | - | - | 10 | 65535 | Stored in FRAM; Stick at 0xFFFF until reset from ground |
| C3 | eMMC | % full | UINT8 | 1 | 20 | | Integer | % | TRUE | 0 | - | - | - | - | 50 | - | - | 80 | 100 | 0 - 100 % |
| C3 | L RX | Bytes received | UINT32 | 4 | 21 | | Integer | Count | TRUE | 0 | - | - | - | - | - | - | - | - | 2^32-1 | # of bytes received on the L band radio |
| C3 | L RX | Valid packets | UINT32 | 4 | 25 | | Integer | Count | TRUE | 0 | - | - | - | - | - | - | - | - | 2^32-1 | # of packets received on the L band radio |
| C3 | L RX | RSSI | UINT8 | 1 | 29 | | Integer | dB | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | Of last packet received; -126 to -45 dBm range; 1 dB step; after LNA, filters, and digital channel filter. |
| C3 | UHF RX | Bytes received | UINT32 | 4 | 2A | | Integer | Count | TRUE | 0 | - | - | - | - | - | - | - | - | 2^32-1 | # of bytes received on the UHF band radio |
| C3 | UHF RX | Valid packets | UINT32 | 4 | 2E | | Integer | Count | TRUE | 0 | - | - | - | - | - | - | - | - | 2^32-1 | # of packets received on the UHF band radio |
| C3 | UHF RX | RSSI | UINT8 | 1 | 32 | | Integer | dB | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | Of last packet received; -126 to -45 dBm range; 1 dB step; after LNA, filters, and digital channel filter. |
| C3 | FW Bank | Current and next bank | UINT8 | 1 | 33 | | Bitfield (mutiple enum | N/A | TRUE | 0 | - | - | - | - | - | - | - | - | 3 | Bit 0 = Current Bank, Bit 1 = Next Bank |
| C3 | L RX | Sequence number | UINT32 | 4 | 34 | | Integer | N/A | TRUE | 0 | - | - | - | - | - | - | - | - | 2^32-1 | This is the sequence number (sometimes called "salt") in the authentication scheme |
| C3 | L RX | Rejected packets | UINT32 | 4 | 38 | | Integer | N/A | TRUE | 0 | - | - | - | - | - | - | - | - | 2^32-1 | This is the number of rejected packets, due to noise, bit flips, or bad sequence number or MAC. |
| Battery | Pack 1 | VBatt | UINT16 | 2 | 3C | | Integer | mV | TRUE | 0 | - | 6000 | 6500 | 7000 | 8000 | 8400 | 8500 | - | 65535 | Total battery pack voltage |
| Battery | Pack 1 | VCell | UINT16 | 2 | 3E | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: voltage |
| Battery | Pack 1 | VCell Max | UINT16 | 2 | 40 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: maximum voltage (since ... last charge?) |
| Battery | Pack 1 | VCell Min | UINT16 | 2 | 42 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: minimum voltage (since ... last charge?) |
| Battery | Pack 1 | VCell 1 | UINT16 | 2 | 44 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Cell 1 voltage |
| Battery | Pack 1 | VCell 2 | UINT16 | 2 | 46 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Cell 2 voltage |
| Battery | Pack 1 | VCell Avg | UINT16 | 2 | 48 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: average voltage (since ... last charge?) |
| Battery | Pack 1 | Temperature | INT16 | 2 | 4A | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 1 | Temperature Avg | INT16 | 2 | 4C | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 1 | Temperature Max | INT16 | 2 | 4E | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 1 | Temperature Min | INT16 | 2 | 50 | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 1 | Current | INT16 | 2 | 52 | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Instantaneous current |
| Battery | Pack 1 | Current Avg | INT16 | 2 | 54 | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Average current |
| Battery | Pack 1 | Current Max | INT16 | 2 | 56 | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Max current |
| Battery | Pack 1 | Current Min | INT16 | 2 | 58 | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Min current |
| Battery | Pack 1 | State | UINT8 | 1 | 5A | | Bitfield (mutiple enum | Bit field | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | Bit 0: heater on/off , B1: discharge disabled, B2: charge disabled, B3: discharge status, B4: charge statu |
| Battery | Pack 1 | Reported State of Charg | UINT8 | 1 | 5B | | Integer | % | TRUE | 0 | 5 | 12 | 25 | 50 | - | - | 101 | - | 255 | State of Charge (%) of the pack (reported capacity / full capacity) |
| Battery | Pack 1 | full capacity | UINT16 | 2 | 5C | | Integer | mAh | TRUE | 0 | - | 1000 | 1500 | 2000 | - | - | 3000 | - | 65535 | Best guess at the total storage capacity of the pack |
| Battery | Pack 1 | reported capacity | UINT16 | 2 | 5E | | Integer | mAh | TRUE | 0 | 100 | 250 | 500 | 1000 | 2600 | 2700 | - | - | 65535 | Best guess at the current capacity of the pack |
| Battery | Pack 2 | VBatt | UINT16 | 2 | 60 | | Integer | mV | TRUE | 0 | - | 6000 | 6500 | 7000 | 8000 | 8400 | 8500 | - | 65535 | Total battery pack voltage |
| Battery | Pack 2 | VCell | UINT16 | 2 | 62 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: voltage |
| Battery | Pack 2 | VCell Max | UINT16 | 2 | 64 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: maximum voltage (since ... last charge?) |
| Battery | Pack 2 | VCell Min | UINT16 | 2 | 66 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: minimum voltage (since ... last charge?) |
| Battery | Pack 2 | VCell 1 | UINT16 | 2 | 68 | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Cell 1 voltage |
| Battery | Pack 2 | VCell 2 | UINT16 | 2 | 6A | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Cell 2 voltage |
| Battery | Pack 2 | VCell Avg | UINT16 | 2 | 6C | | Integer | mV | TRUE | 0 | - | 3000 | 3250 | 3500 | 4000 | 4200 | 4250 | - | 65535 | Lowest cell in the pack: average voltage (since ... last charge?) |
| Battery | Pack 2 | Temperature | INT16 | 2 | 6E | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 2 | Temperature Avg | INT16 | 2 | 70 | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 2 | Temperature Max | INT16 | 2 | 72 | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 2 | Temperature Min | INT16 | 2 | 74 | | Integer | deg C | TRUE | -32768 | -5 | 0 | 5 | 10 | 40 | 50 | 60 | - | 32767 | Could change this to an INT8. |
| Battery | Pack 2 | Current | INT16 | 2 | 76 | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Instantaneous current |
| Battery | Pack 2 | Current Avg | INT16 | 2 | 78 | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Average current |
| Battery | Pack 2 | Current Max | INT16 | 2 | 7A | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Max current |
| Battery | Pack 2 | Current Min | INT16 | 2 | 7C | | Integer | mA | TRUE | -32768 | - | - | - | - | - | - | - | - | 32767 | Min current |
| Battery | Pack 2 | State | UINT8 | 1 | 7E | | Bitfield (mutiple enum | Bit field | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | Bit 0: heater on/off , B1: discharge disabled, B2: charge disabled, B3: discharge status, B4: charge statu |
| Battery | Pack 2 | Reported State of Charg | UINT8 | 1 | 7F | | Integer | % | TRUE | 0 | 5 | 12 | 25 | 50 | - | - | 101 | - | 255 | State of Charge (%) of the pack (reported capacity / full capacity) |
| Battery | Pack 2 | full capacity | UINT16 | 2 | 80 | | Integer | mAh | TRUE | 0 | - | 1000 | 1500 | 2000 | - | - | 3000 | - | 65535 | Best guess at the total storage capacity of the pack |
| Battery | Pack 2 | reported capacity | UINT16 | 2 | 82 | | Integer | mAh | TRUE | 0 | 100 | 250 | 500 | 1000 | 2600 | 2700 | - | - | 65535 | Best guess at the current capacity of the pack |
| Solar-X | | Voltage avg | UINT16 | 2 | 84 | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array voltage since power up (NOT bus voltage!) |
| Solar-X | | Current avg | INT16 | 2 | 86 | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Average of the solar array current since power up (NOT bus current) |
| Solar-X | | Power avg | UINT16 | 2 | 88 | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array power output since power up |
| Solar-X | | Voltage max | UINT16 | 2 | 8A | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array voltage since power up (NOT bus voltage!) |
| Solar-X | | Current max | INT16 | 2 | 8C | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Maximum of the solar array current since power up (NOT bus current) |
| Solar-X | | Power max | UINT16 | 2 | 8E | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array power output since power up |
| Solar-X | | Energy | UINT16 | 2 | 90 | | Integer | J | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Total energy (power over time) output of the solar array since power up |
| Solar-Y | | Voltage avg | UINT16 | 2 | 92 | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array voltage since power up (NOT bus voltage!) |
| Solar-Y | | Current avg | INT16 | 2 | 94 | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Average of the solar array current since power up (NOT bus current) |
| Solar-Y | | Power avg | UINT16 | 2 | 96 | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array power output since power up |
| Solar-Y | | Voltage max | UINT16 | 2 | 98 | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array voltage since power up (NOT bus voltage!) |
| Solar-Y | | Current max | INT16 | 2 | 9A | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Maximum of the solar array current since power up (NOT bus current) |
| Solar-Y | | power max | UINT16 | 2 | 9C | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array power output since power up |
| Solar-Y | | Energy | UINT16 | 2 | 9E | | Integer | J | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Total energy (power over time) output of the solar array since power up |
| Solar+X | | Voltage avg | UINT16 | 2 | A0 | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array voltage since power up (NOT bus voltage!) |
| Solar+X | | Current avg | INT16 | 2 | A2 | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Average of the solar array current since power up (NOT bus current) |
| Solar+X | | Power avg | UINT16 | 2 | A4 | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array power output since power up |
| Solar+X | | Voltage max | UINT16 | 2 | A6 | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array voltage since power up (NOT bus voltage!) |
| Solar+X | | Current max | INT16 | 2 | A8 | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Maximum of the solar array current since power up (NOT bus current) |
| Solar+X | | power max | UINT16 | 2 | AA | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array power output since power up |

| 11-Mar-2022 | | | Bytes Allocate | 252 | | | | | | | | | | | | | | | MAX: 255 bytes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C3 Firmware | | | | | Yamcs | | | Grafana | Yamcs / Grafana | | | | | | | | Grafana | |
| | Subsystem | Data | Raw Data Type | # Bytes | Beacon Offset | Calibrator function (raw to eng value) | Yamcs Eng Data Type | Yamcs Eng Units | Implemented? | Min | Severe Min | Critical Min | Warning Min | Watch Min | Watch Max | Warning Max | Critical Max | Severe Max | Max | Notes |
| Solar+X | | Energy | UINT16 | 2 | AC | | Integer | J | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Total energy (power over time) output of the solar array since power up |
| Solar+Y | | Voltage avg | UINT16 | 2 | AE | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array voltage since power up (NOT bus voltage!) |
| Solar+Y | | Current avg | INT16 | 2 | B0 | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Average of the solar array current since power up (NOT bus current) |
| Solar+Y | | Power avg | UINT16 | 2 | B2 | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Average of the solar array power output since power up |
| Solar+Y | | Voltage max | UINT16 | 2 | B4 | | Integer | mV | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array voltage since power up (NOT bus voltage!) |
| Solar+Y | | Current max | INT16 | 2 | B6 | | Integer | mA | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | Maximum of the solar array current since power up (NOT bus current) |
| Solar+Y | | power max | UINT16 | 2 | B8 | | Integer | mW | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Maximum of the solar array power output since power up |
| Solar+Y | | Energy | UINT16 | 2 | BA | | Integer | J | TRUE | 0 | - | - | - | - | - | - | - | - | 65535 | Total energy (power over time) output of the solar array since power up |
| Star Tracker | | eMMC Capacity | UINT8 | 1 | BC | | Integer | % | TRUE | 0 | - | - | - | - | - | 50 | 70 | 80 | 100 | |
| Star Tracker | | readable files | UINT8 | 1 | BD | | Integer | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | |
| Star Tracker | | updater status | UINT8 | 1 | BE | | Enum String | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | States: 0=standby, 1=updating, 2=update_failed, 3=status_file |
| Star Tracker | | updates cached | UINT8 | 1 | BF | | Integer | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | |
| Star Tracker | | Right Ascension | INT16 | 2 | C0 | | Integer | | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | |
| Star Tracker | | Declination | INT16 | 2 | C2 | | Integer | | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | |
| Star Tracker | | Roll | INT16 | 2 | C4 | | Integer | | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | |
| Star Tracker | | Timestamp of last meas | UINT32 | 4 | C6 | | Integer | ms since midni | TRUE | 0 | - | - | - | - | - | - | - | - | 86400000 | |
| GPS | | eMMC Capacity | UINT8 | 1 | CA | | Integer | % | TRUE | 0 | - | - | - | - | - | 50 | 70 | 80 | 100 | |
| GPS | | readable files | UINT8 | 1 | CB | | Integer | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | |
| GPS | | updater status | UINT8 | 1 | CC | | Enum String | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | States: 0=standby, 1=updating, 2=update_failed, 3=status_file |
| GPS | | updates cached | UINT8 | 1 | CD | | Integer | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | |
| GPS | | gps status | UINT8 | 1 | CE | | Enum String | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | States: 0=standby, 1=locked, 2=hardware_error, 3=parser_error |
| GPS | | num of sats locked | UINT8 | 1 | CF | | Integer | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | 12 is max of SkyTraq |
| GPS | | X position | INT32 | 4 | D0 | | Integer | cm | TRUE | SMOL | - | - | - | - | - | - | - | - | BEEG | |
| GPS | | Y postition | INT32 | 4 | D4 | | Integer | cm | TRUE | SMOL | - | - | - | - | - | - | - | - | BEEG | |
| GPS | | Z position | INT32 | 4 | D8 | | Integer | cm | TRUE | SMOL | - | - | - | - | - | - | - | - | BEEG | |
| GPS | | X velocity | INT32 | 4 | DC | | Integer | cm/s | TRUE | SMOL | - | - | - | - | - | - | - | - | BEEG | |
| GPS | | Y velocity | INT32 | 4 | E0 | | Integer | cm/s | TRUE | SMOL | - | - | - | - | - | - | - | - | BEEG | |
| GPS | | Z velocity | INT32 | 4 | E4 | | Integer | cm/s | TRUE | SMOL | - | - | - | - | - | - | - | - | BEEG | |
| GPS | | Timestamp of last packe | UINT32 | 4 | E8 | | Integer | ms since midni | TRUE | 0 | - | - | - | - | - | - | - | - | 86400000 | |
| ADS | Gyro | Roll dot | INT16 | 2 | EC | | Integer | deg/sec? | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | |
| ADS | Gyro | Pitch dot | INT16 | 2 | EE | | Integer | deg/sec? | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | |
| ADS | Gyro | Yaw dot | INT16 | 2 | F0 | | Integer | deg/sec? | TRUE | -32,768 | - | - | - | - | - | - | - | - | 32767 | |
| ADS | Gyro | IMU temp | INT8 | 1 | F2 | | Integer | Deg C | TRUE | -128 | -30 | -20 | -10 | 0 | 40 | 50 | 60 | 70 | 127 | |
| DxWiFi | | eMMC Capacity | UINT8 | 1 | F3 | | Integer | % | TRUE | 0 | - | - | - | - | - | 50 | 70 | 80 | 100 | |
| DxWiFi | | readable files | UINT8 | 1 | F4 | | Integer | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | |
| DxWiFi | | updater status | UINT8 | 1 | F5 | | Enum String | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | States: 0=standby, 1=updating, 2=update_failed, 3=status_file |
| DxWiFi | | updates cached | UINT8 | 1 | F6 | | Integer | | TRUE | 0 | - | - | - | - | - | - | - | - | 255 | |
| DxWiFi | | transmitting | BOOL | 1 | F7 | | Enum String | | TRUE | 0 | - | - | - | - | - | - | - | - | 1 | States: 0=disabled, 1=enabled |
| APRS | Packet | CRC-32 | UINT32 | 4 | F8 | | Integer | FCS | TRUE | 0 | - | - | - | - | - | - | - | - | BEEG | Polynomial 0x04C11DB7; computed over all bytes allocated |