DOES NOT DEFINE DIFFERENT TYPES OF TC AND TM PACKETS, DEFINES SOFTWARE SERVICES WHICH MUST BE PROVIDED BY OBSW!

Also defines how the CCSDS packets have to be built and which variables are mandatory

| | Service Number | Service Name | Service Use |
|---|---|---|---|
| ^ | 1 | Telecommand Verification Service | Reports whether TC was sucessful or unsucessful |
| | 2 | Device Command Distribution Service | Allows direct command of equiptment, bypassing applications like AOCS. Mainly used on the ground but occasionally in orbit. May be good for manually sending commands if something fails |
| | 3 | Housekeeping and Diagnostic Data Reporting Serive | Allows in flight de/activation of any diagnostic, change cycle rates, define new packets |
| xxx | 4 | Parameter Statistics Reporting Service | statistical monitoring of OBSW parameters |
| ^ | 5 | Event Reporting Service | All report TM packets are generated for events (parameter anomalies, out of bound statuses) |
| | 6 | Memory Management Service | Allows for patching (uplink) and memory dumps (downlink) |
| XXX | 7 | - | |
| | 8 | Function Management Service | Trigger system to start in LEOP Mode, trigger reboot after system reconfiguration (patching), trigger deployment sequences (in LEOP, solar arrays, antenna etc) |
| | 9 | Time Management Service | Time packet generation rate control |
| XXX | 10 | - | |
| ? | 11 | Onboard Operations Scheduling Service | Controls execution of time tagged commands (for pictures by MIMMI?) |
| | 12 | Onboard Monitoring Service | Cyclic parameter monitoring, can trigger an action in response to limit exceeding situations. |
| | 13 | Large Data Transfer Service | E.g. star tracker star map patch (uplink), images? (downlink) |
| | 14 | Packet Forwarding Control Service | Real time telemetry downlink (e.g. from AOCS) |
| | 15 | Onboard Storage and Retrieval Service | Multiplexed telemetry downlink by priority from packet stores |
| XXX | 16 | - | |
| | 17 | Test Service | Test functions onboard and report results. Only used during testing phase, not used during normal orbit operations |
| | 18 | Onboard Operations Procedure Service | Allows for the execution of scripts onboard. |
| | 19 | Event-Action Service | Links onboard events to onboard actions (parameters monitored in 12 and reported in 6 can be acted upon here). Used for FDIR |
| pg 206.. | 128 | Onboard Operation Intermediate Transition Service | Collect intermediate transition of functions state, evaluate it and report |
| | 129 | | |
| | 130 | | |
| | 131 | | |

| key | | | |
|---|---|---|---|
| ^ | Important | | |
| ? | Do we need | | |
| xxx | Don't need | | |
| XXX | Empty | | |

numbers 128+ are specifically for our S/C that I have set, maybe we need to set more idk but from reading the book we at least need 128