

10th IAA Symposium Berlin

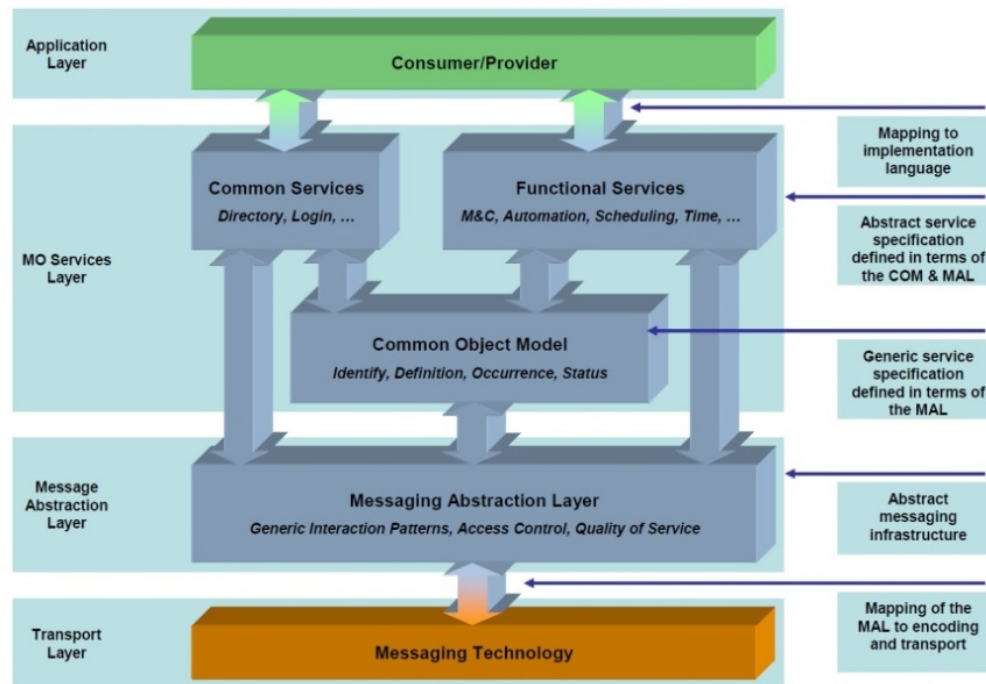
CCSDS MO services on OPS-SAT

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CCSDS MO services on OPS-SAT

CCSDS Mission Operations Framework

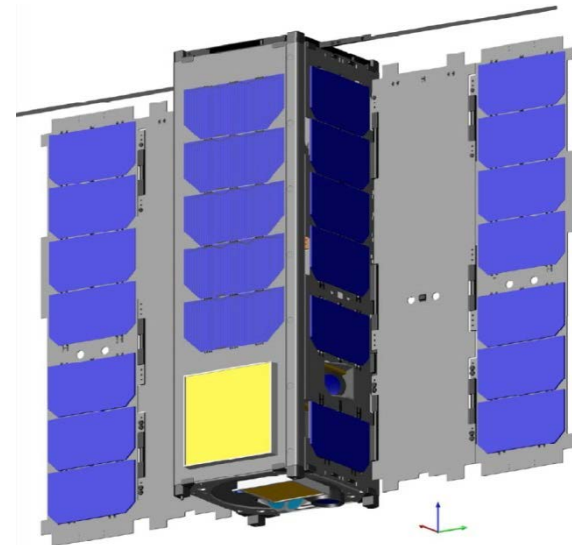


CCSDS MO services on OPS-SAT

OPS-SAT

The OPS-SAT mission objective is to break the “never flown, will not fly” cycle in the area of mission operations.

- MO services in the Nanomind
- MO services in the MityARM



CCSDS MO services on OPS-SAT

Motivation

- Around 100 experiments identified
- High-Processing power
- Vast amount of storage

CCSDS MO services on OPS-SAT

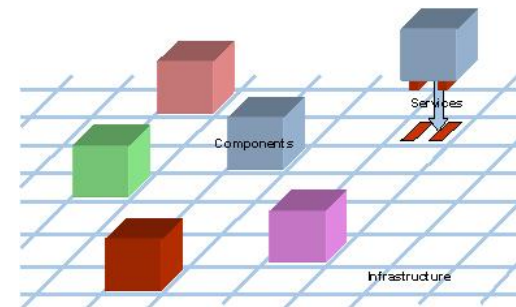
NanoSat MO Framework provided services

CCSDS MO Standardized services

- COM services
- Monitor & Control services

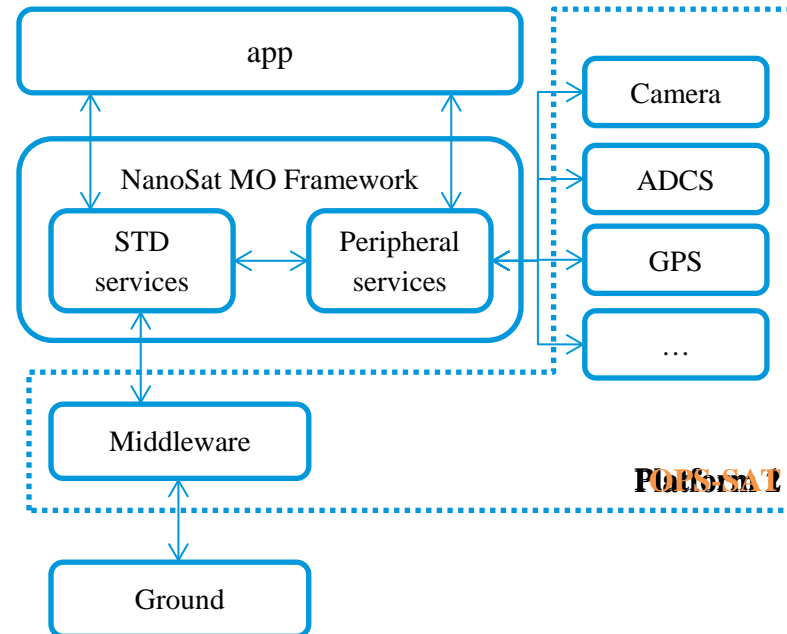
Peripheral services

- GPS service
- Camera service
- ADCS service
- ...



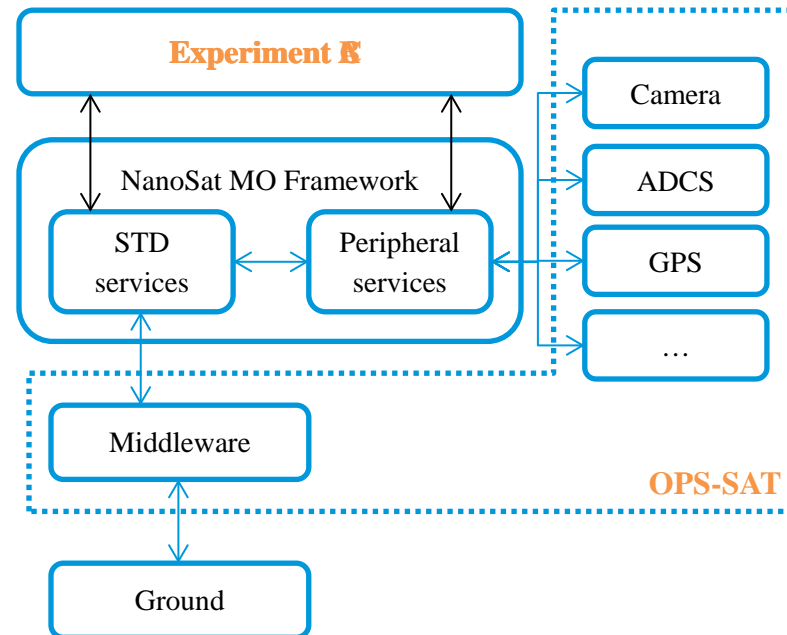
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NanoSat MO Framework Architecture



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NanoSat MO Framework in OPS-SAT



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NanoSat MO Framework - Summary

- Based in the MO services Framework
- Pre-implemented MO services
- Reference implementation: OPS-SAT
- On-board software independent from underlying Platform
- Open-source

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Thank you! Questions?

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