TASKS

100% probably missing stuff so add/change etc

Give suggestion on telemetry telecommand standard

* PUS Natalie has made an initial draft of these
* Commands and subcommands for some instruments

Approximate calculation on uplink/downlink data rate

Carlo has completed these

Packet system able to correct at least a single bit error

Discussion on different modes of satellite

Natalie has made an initial draft of these

Mapping to instrument modes

Natalie has made an initial draft of these

Security for non-authorised commanding [Georges]

This is represented as:

* An “Encryption Module” in the architecture diagram.
* An public/private key verification in sequence diagram.

But I suspect we need to figure out what kind of uplink/downlink protocols allow encryption and how it works.

Map functionality to included hardware components

Discuss critical parts of software which may place special demands on system [Georges]

Image handling?

Method/design allowing reprogramming from ground [Natalie/Georges]

PUS services 6 and 8 link into this

Haven’t checked your contribution but we should also include upload of Javascript code. Georges was going to do this with a sequence diagram.

Show how the redundancy is implemented [Georges]

Georges can take care of this. Really thoroughly with justifications and hardware choices that meet requirements. Will also include pros and cons.

Architecture diagram [Georges]

Georges had completed this

Discussion on design requirements including why functionality is implemented in soft/hardware, why centralised/distributed etc. [Georges]

Georges has justifications for:

* very small mass
* extremely low power
* very small
* be very cheap

Needs discussion:

* have very short development period
* withstand all sorts thermal, mechanical and electrical loads
* be 100% reliable
* be extremely simple to test and integrate