EUROPA FLIGHT SYSTEM

MODEL MANAGEMENT PLAN

Version *1.0*

VERSION HISTORY

Each revision of the MMP document must be documented in the version history. Only approved team members may update the document. Otherwise, the MMP will not be approved and implemented. Finally, send the revisioned document to the model owner for approval.

Use the table below to provide the version number, the author implementing the version, the date of the version, the name of the person approving the version, the date that particular version was approved, and a brief description of the reason for creating the revised version.

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	*Charles Lambert*	*<12/02/02>*	*Angad S.*	*12/03/02*	*Initial creation and approval.*

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1 INTRODUCTION

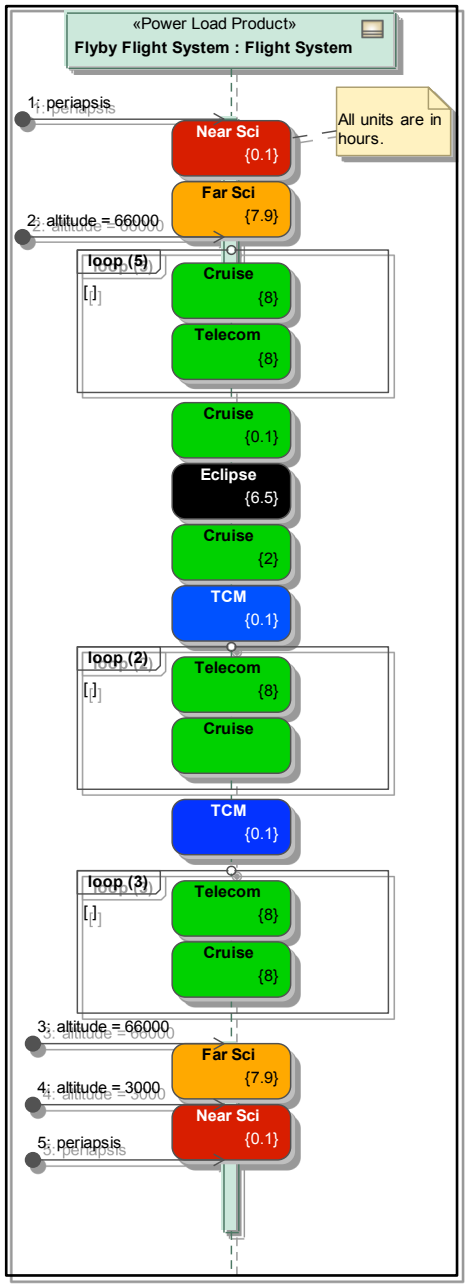
1.1 PURPOSE OF MODEL MANAGEMENT PLAN

The Model Management Plan (MMP) exists to keep the model up to date and valid over its life-cycle. It ensures the model has appropriate oversight, and that is not lost in a tragedy of the commons situation.

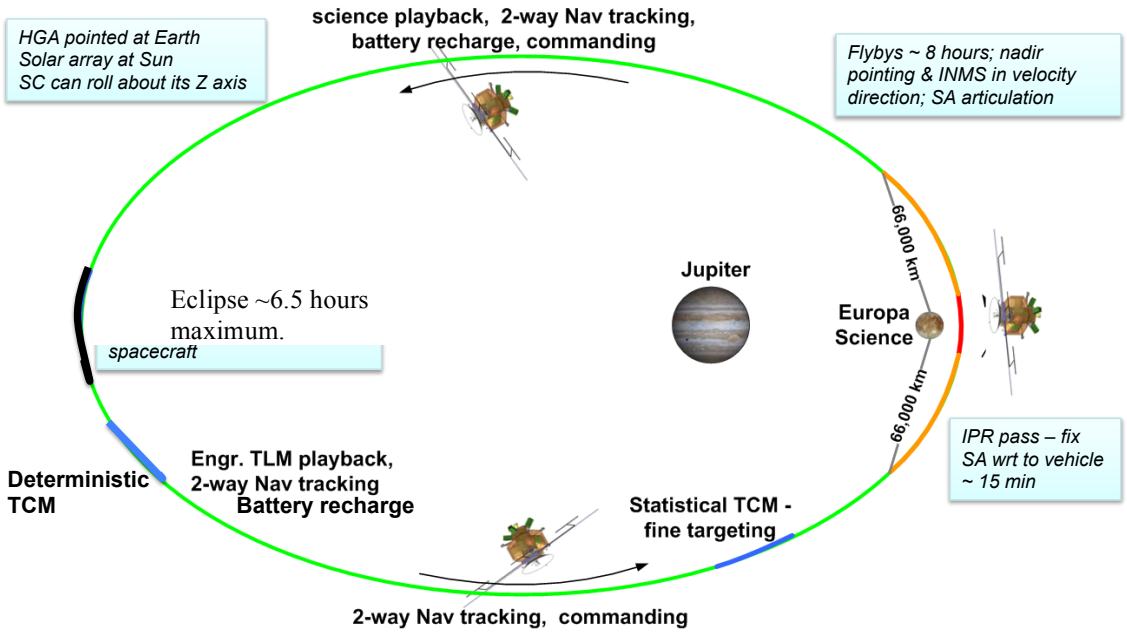
The intended audience of the Europa MMP is all model stakeholders including the model sponsor, senior leadership and the MBSE team.

2 INITIAL VERIFICATION AND VALIDATION OF THE MODEL

The model shall be validated and verified in the following mission scenario. After any revision the model owner shall verify and validate the model.



2.1 ASSUMPTIONS/CONSTRAINTS



3 GOVERNING THE INPUTS TO THE MODELS

3.1 MODEL INPUTS

- *Spacecraft bus*
- Payload:
- Propellant

3.2 USER PERMISSIONS

The model owner and its core team may request permission to obtain root rights to the model. They may update inputs and implement changes as needed. The model curator must approve changes that will affect interfaces, inputs and outputs of the model.

Users must request access to the model by submitting a LVL2 ticket via the model DB.

3.3 CHANGE CONTROL MANAGEMENT

Change-Managed Content. The CM system tracks who made commits but atomic level modifications to the model are Non-Attributable.

4 FUNDING THE MODEL

The Europa flight system model is funded as a part of the overall Europa assigned budget. The scope of the model makes it valuable to additional missions of the enterprise. Thus, access to the model may be requested by sister projects. Funding will be as follows:

- *Europa will fully fund the initial scope of the model.*
- Additional interested projects may request changes to the model which will be funded by the requester.

- Access to the model by additional projects may be granted based on an annual contribution.

5 QUALITY ASSURANCE

The model will be reviewed periodically by the core implementation team led by the model owner. Quality will be ensured through inspections, audits, formal testing and documentation of defects in a defect tracking system to ensure defects are fixed, retested and closed.

6 PROCESS FOR MODEL SCOPE CHANGES

- *The intended audience listed in the beginning of this document will vote and weigh into the addition of scope to the model. If the additional scope comes from a project other than "Europa", the requester will sponsor the costs of such increment.*
- The model owner will be responsible of validating and verifying the model.
- The model curator will approve changes once presented with the validation and verification results.
- The model adopts a multiple version controlled repository. This permits a mechanism for model management that provides traceability. Revisions will be kept and archived for at least 10 versions of the model.
- Engineering changes to the model should affect less than 5 components of the model. If the change has a large propagation, it must be broken into different engineering changes.