



Digital Engineering Hub Pathfinder

MBSE 2021



Speaker

Alex Vorobiev

RHEA Group

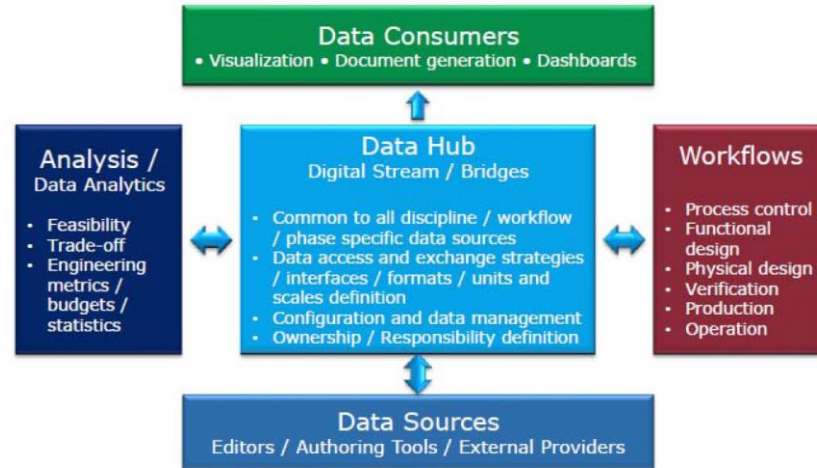
Project Manager

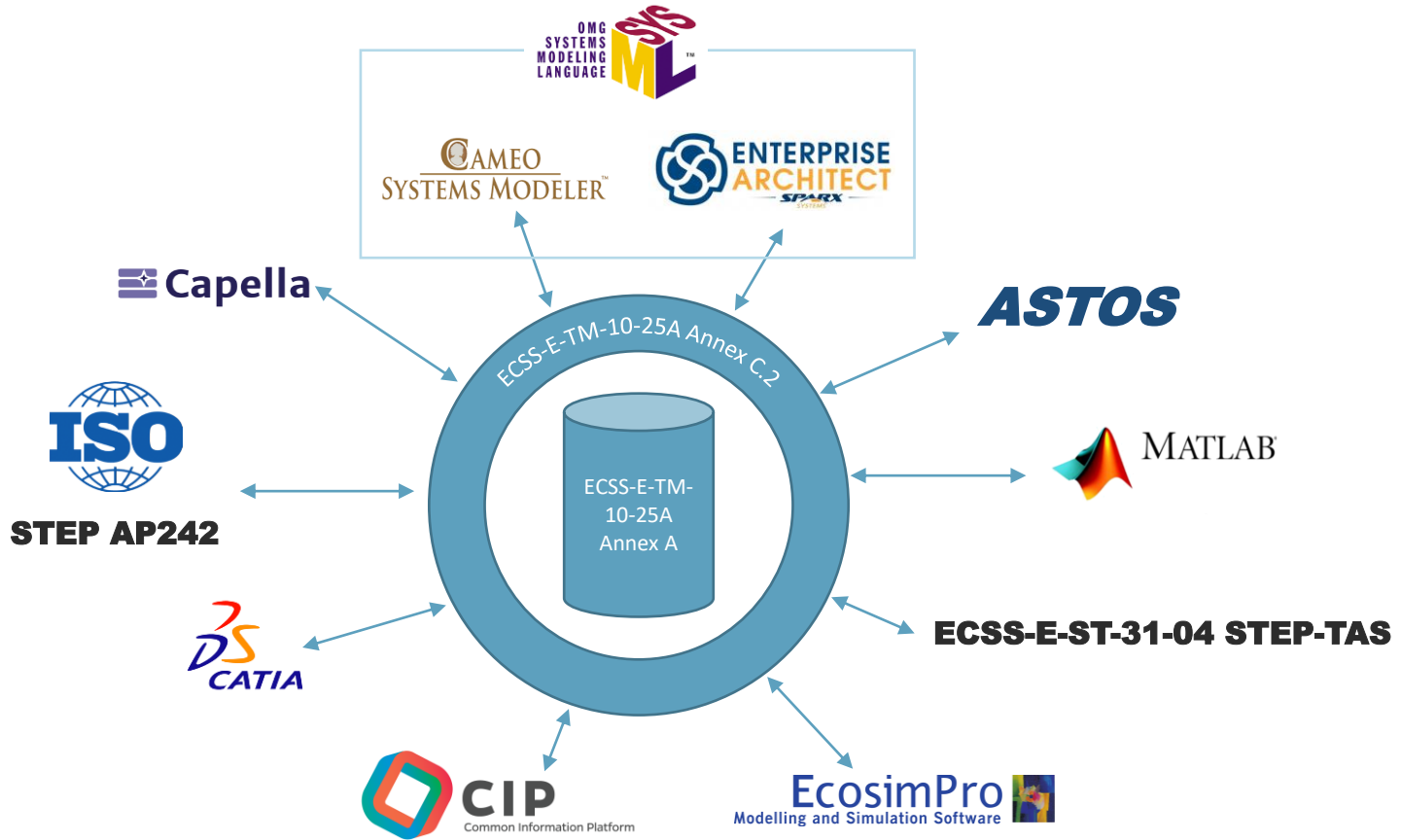
MBSE - Concurrent Engineering since 2012

Developments:

- ECSS-E-TM-10-25A – (RHEA CDP3, CDP4 and COMET; OCDT)
- Model based Requirements Verification Lifecycle (MARVL, CIP)
- Generative Concurrent Design

System Factory





ECSS-E-TM-10-25A as an Engineering Hub

- Define and promote common data definitions and exchange in the context of concurrent design, and engineering model reviews.
- Primarily intended to be used in Phases 0/A.
- Facilitates creation of the decomposition of a system on a logical and physical architectural level with associated requirements, strongly typed parameters, supported by concepts of ownership by domain experts.
- API definition for near-real-time information exchange.
- Existing software implementations: RHEA COMET, ESA OCDT, Blue Engineering COSM.

Digital Engineering Hub Pathfinder

Partners



User Requirements
CONOPS
Validation

ASTOS Ingetration

STEP AP242
STEP-TAS
Integrations

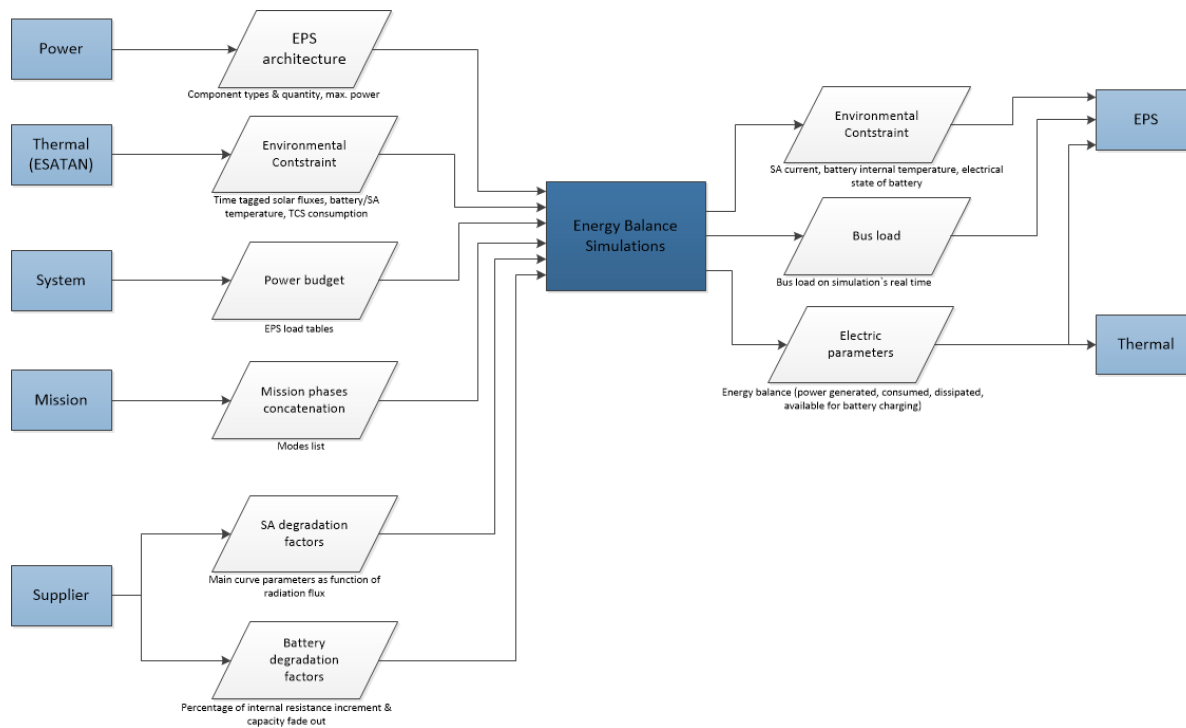
Requirements, Use Cases and CONOPS

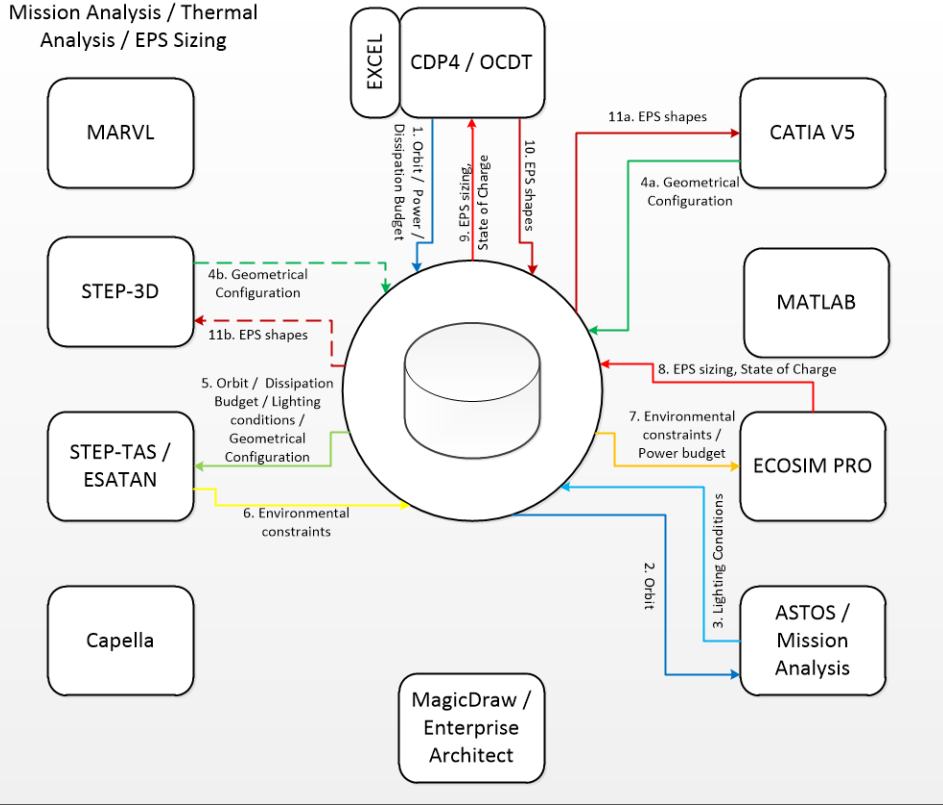
Inputs

- User Survey at CEFO
- CDF Domain Experts
- ESA Tool Experts

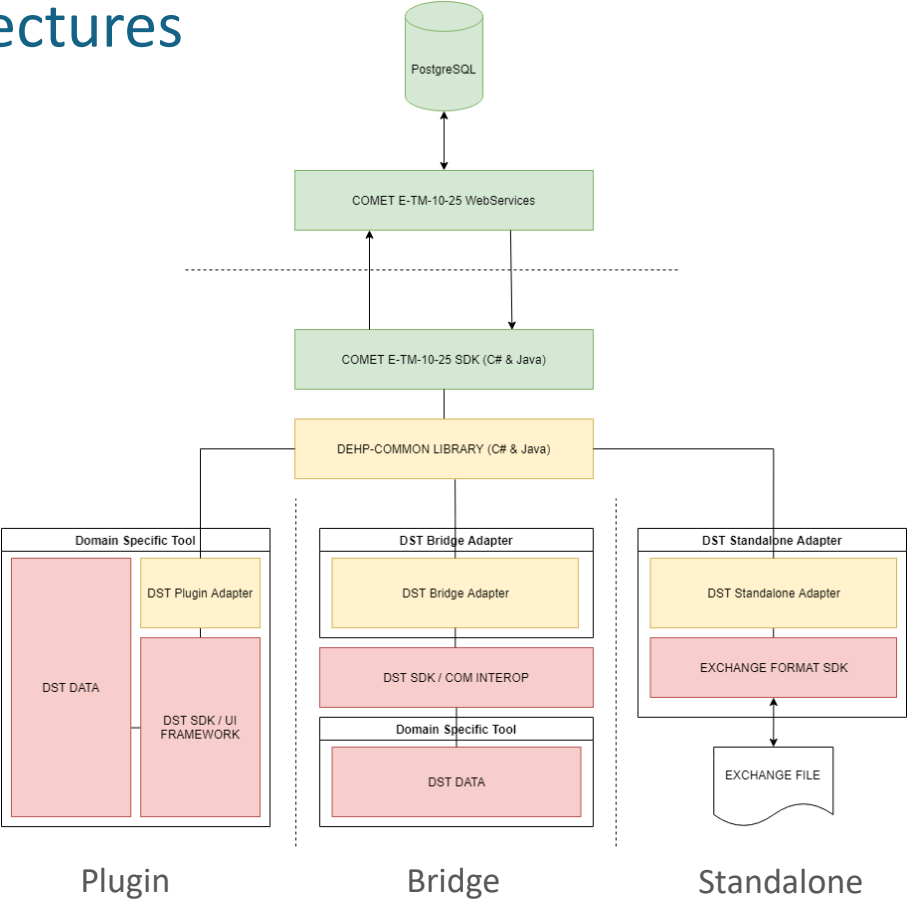
Outputs

- User Requirements
- Software Requirements
- Use Cases
- CONOPS





Adapter Architectures



Plugin

Bridge

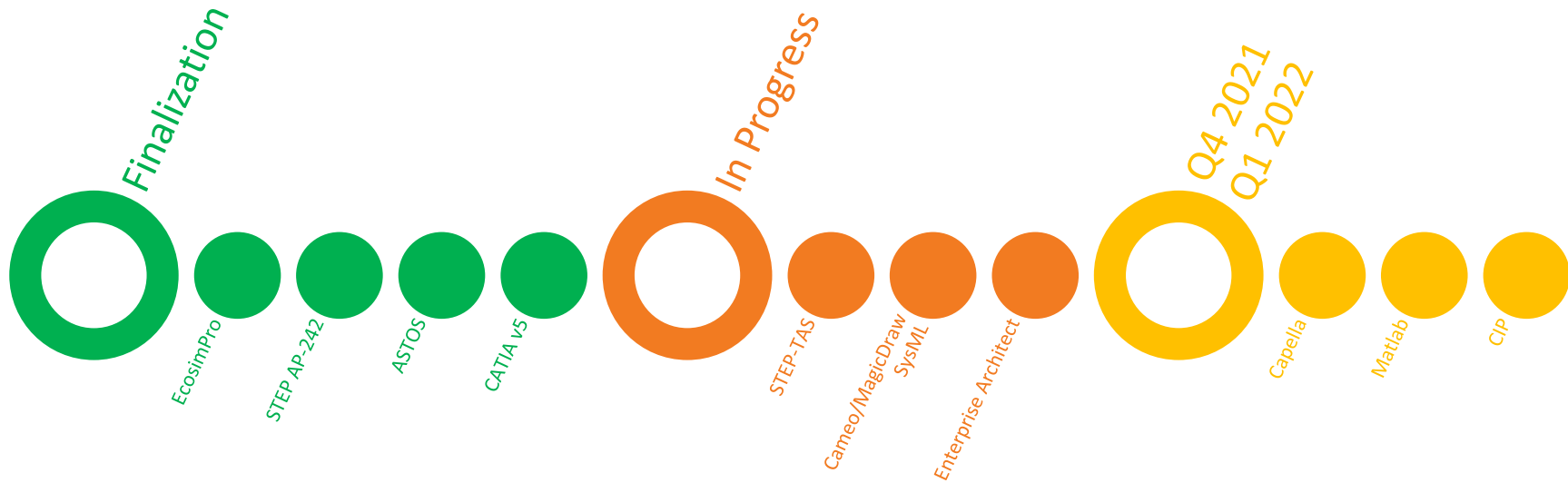
Standalone

Development & Results

EcosimPro

ASTOS

STEP AP-242



Log on to <https://github.com/RHEAGROUP/> to find both source code as well as complete downloads of almost all adapter.

Contact Astos Solutions GmbH regarding integration with ASTOS

Reach The Team

We love questions and feedback – and we're always happy to help!
Here are some ways to contact us.

ESA Contact

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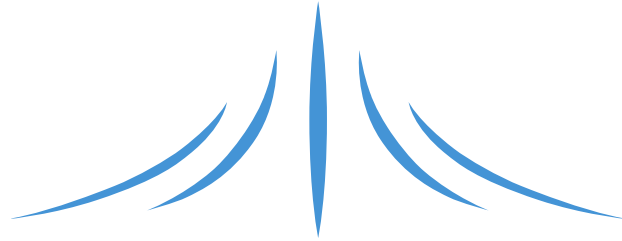
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