

>Is it possible to easily extend the features (either in the back-end or HMI) by a third party ?

Yes. The GSEF tool evolution under ADGE will be made available under an ESA Community License (see <https://essr.esa.int/license/list>) and accompanying collaboration agreement. The predecessor tool is already made available on the ESA CoDev platform: <https://gitlab.space-codev.org/mbse/gsef> which is for now read-only until a formal collaboration agreement is defined.

>Is there a way to migrate an existing GSEF project to the new ADGE in the future?

This is envisaged, yes. Some mappings to new semantics may be required for migrating models.

>Does GSEF aim at replacing existing engineering tools (like Capella and CAMEO Systems Modeller) or rather at interfacing them?

The capabilities of GSEF are more aligned to a model editing tool like those mentioned rather than to an interfacing tool, which is more the target of the MB4SE Model Based Engineering Hub activity. However it is also envisaged to implement flexible model import and mapping capabilities for example through csv files, ReqIF, or OSLC compliant API, thus some interfacing use cases could be covered. Note that the GSEF does not aim to replace the mentioned tools, it is the decision of the organisation or project as to which tool is to be used for which purpose, acknowledging that a 'one size fits all' approach is not considered viable.

>Is there a pre-defined model library for the system engineers to use?

A dedicated SysML V2 Domain Model Library (DML) is provided, which represents the GSEF data model. Power users can update/extend this library or add additional libraries based on it, by effectively doing meta-modelling at the DML level. In addition, it is foreseen to provide reference model libraries and complete reference architectures in ADGE, which can be reused and tailored for elaborating mission-specific system architectures (models). The distinction between DMLs, effectively representing data models, on the one hand, and reference libraries on the other, will be made in the tooling itself. At the underlying model implementation/persistence level, all libraries are in fact SysML V2 model libraries.