Improvement of the OSRA SCM Model Editor

In support to the OBSW Reference Architecture (OSRA) activities, an editor had been developed which implements the Space Component Meta-model (SCM) in a graphical editor. The editor, called OSRA SCM Model Editor, had been developed initially in the frame of a PhD thesis by Marco Panunzio and further extended in the COrDeT-2 and COrDeT-3 activity.

The intention during those previous studies was to develop a prototype for experimentation purposes only. However, after the COrDeT-3 study, the need for a more user friendly and improved editor to allow its use in the ESTEC TEC-SW laboratory was getting clear. Hence this activity was targeting the development of this tool to be used as an asset in the ESTEC TEC-SW laboratory.

The editor itself is based on the Eclipse platform using Sirius as an underlying technology. No advanced Eclipse plugins had been used in the development so far. Considering the full spectrum of Eclipse plugins available for graphical tool developments, it is was expected that a more user friendly tool can be developed.

The objectives of the study were
- The improvement of the OSRA SCM Model Editor prototype.
- The exploration of relevant technologies/plugins of Eclipse to improve the usability and architecture of the OSRA SCM Model Editor.
- Update of the Software User Manual for dissemination purposes

The presentation will provide an overview of the chosen technologies and the integration of them into Eclipse/Sirius in the improved editor.