

## SAVOIR Electronic Data Sheet Definition

The use of **Electronic Data Sheets** (EDS) to replace the paper **Interface Control Documents** (ICDs) used to exchange information about the custom electronic devices used in space systems has been a long-standing goal, and the subject of several prior studies. The **SAVOIR EDS** study built on those by:

- focusing on the process of EDS production and use from the point of view of a **Large Systems Integrator** (LSI).
- extending the domains covered from **communications to electrical, mechanical, and thermal**.
- building a wider consensus on how to standardise and use EDS, covering all major European LSIs.

The concepts developed and elaborated during the initial project phases were validated by producing:

- six **data sheets** based on existing hardware devices
- four **proof of concept prototypes**, one from each consortium member, based on using those data sheets to perform a variety of real-world use cases.
- a single **common validation tool** to help ensure that all data sheets and prototypes share a common interpretation of EDS concepts.

These succeeded in demonstrating the potential for standard-based data exchange by applying those concepts alongside, and integrated into, existing LSI tools and working practices. Based on the experience of doing that work, the concepts were further iterated and developed. This resulted in a refined **conceptual framework**, which serves as a guide to how EDS standards should be to be adopted, developed, and refined to meet the needs of the European space industry.