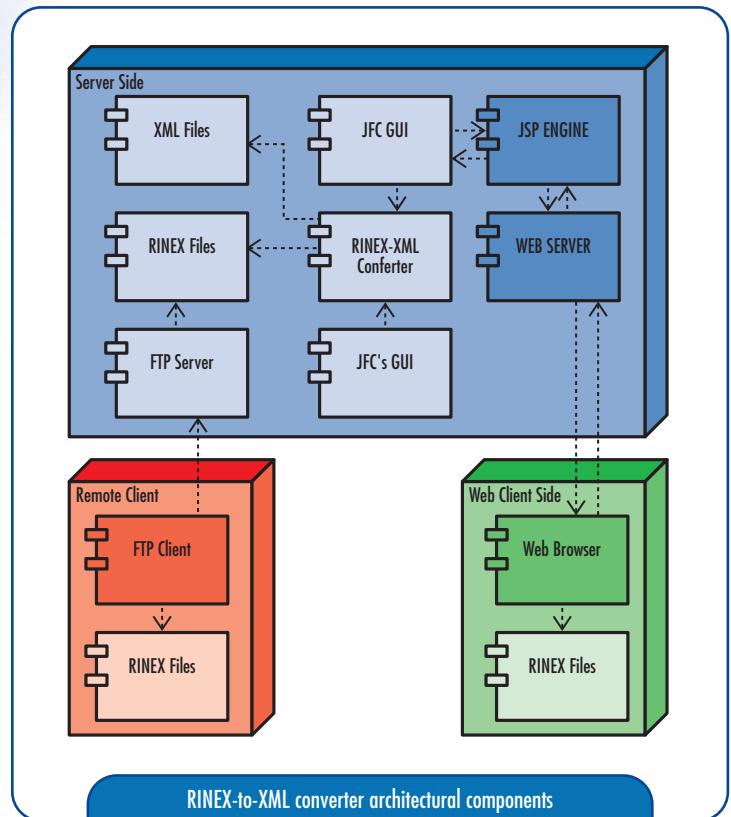


Ground Segment Data Model & Data Standard (GXML)

A data model developed for the full Galileo Ground segment ensures consistency, commonality and good interoperability between Ground Segment subsystems.

Using the **extensible mark up language** (world-standard XML) for the implementation of such data model is investigated in this activity.

The activity also requires the development of a high-tech software for conversion of navigation receiver data into the XML format.



Main Features of data technology standard:

- Portable (platform-independent)
- Adaptable
- Scalable
- Large availability of mass market commercial products and tools
- Structured
- Searchable

Converter handles:

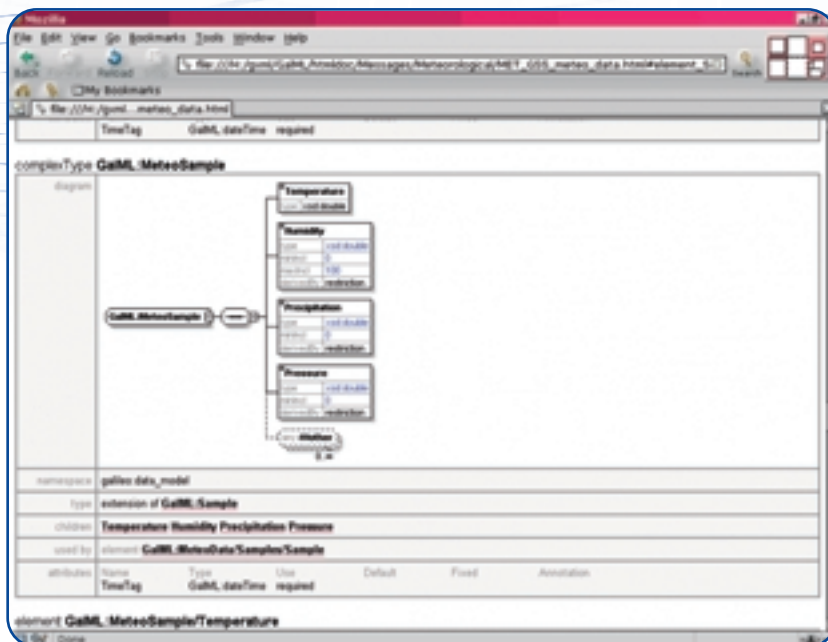
- Navigation message files
- Meteorological data files
- Observation data files
- Clock files

Ground Segment Data Model & Data Standard (GXML)



Development History

- Start July 2002
- Monthly progress meetings and reports
- Passed Test Readiness Review Milestone
- Acceptance testing done in March 2003
- Final Presentation end of March 2003
- 6 months of warranty



Navigation, browsing through the Galileo Ground Segment Data Model

In figures, 192 object-oriented classes for the converter (29000 lines of code),
242 schema files for the data model of the Ground Segment.



Coming soon:

- Convergence of Ground Segment data models (simulator, Test Bed, this activity)
- Lessons-learned-and-problems-encountered evaluation report for this development for Galileo, using recent data specification technologies.
- Incorporation of RINEX-XML converter into the Galileo System Test Bed activity

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