

# Sector Brief: Space Systems

## Major Projects and Customers

### Rosetta

Comet probing scientific mission

- › Saab Ericsson Space
- › Officine Galileo
- › Captec

- › Dutch Space
- › Terma
- › DASA
- › Tecnospatio
- › OHB Systems

### XMM / Integral

- › EADS Astrium
- › Laben Space
- › Officine Galileo
- › Logica CMG
- › Data Spazio

### Skynet 5

UK military comms satellite system

- › EADS Astrium



### Envisat, Eumetsat, Meteosat, Metop

Weather and global earth observation satellites

- › EADS Astrium

### Cassini / Huygens

Mission ending at Saturn's moon Titan

- › Logica CMG
- › Laben Space

### Galileo

European GPS alternative

- › Critical Software
- › Indra Espacio
- › Thales Space
- › SciSys
- › Skysoft

### ISS - Columbus and ERA

International Space Station equipment

- › Atos- Origin
- › Alenia Spazio

### GalileoSat

Satellite Navigation System

- › SciSys
- › Vega Group

### EGNOS

European GPS/GLONASS overlay system

- › GTD
- › Thanles Avionics
- › Logica CMG
- › Telespazio
- › Frequentis
- › Austrian Aerospace
- › GMV
- › Indra Espacio
- › Laben Space

### Herschel / Planck

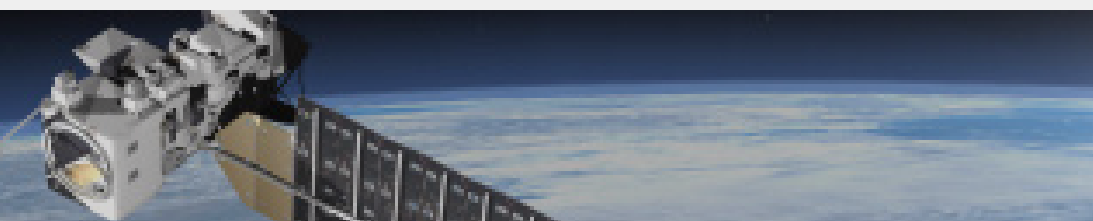
European scientific research missions

- › Space Systems Finland
- › Terma
- › Captec
- › LPSC (CNES)
- › EADS Astrium
- › Saab Ericsson Space

### ADM - Aeolus / SMOS

Atmospheric Dynamics Mission and Soil Moisture and Ocean Salinity projects

- › SciSys



# Tools

## CANTATA

Cantata dynamically proves code with automated unit and integration testing, in the most cost effective manner.

It provides a complete test development environment, built on Eclipse, and it integrates easily with developer desktop compilers and embedded target platforms.

Cantata has been successfully qualified many times in space systems projects.

## AdaTEST 95

AdaTEST 95 dynamically proves code with automated unit and integration testing, in the most cost effective manner.

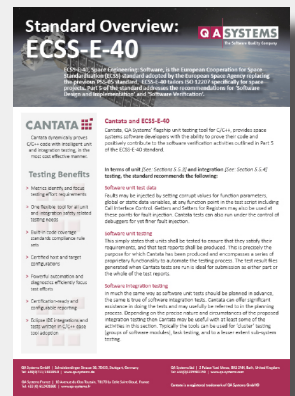
Designed around the requirements of the Ada language, AdaTEST 95 offers high productivity and a unique set of testing, code coverage analysis and static analysis features.

AdaTEST 95 has been successfully used by customers worldwide since the 1990s in space systems projects.

## Sector Standards

In the fields of ground and on-board space equipment where safety and reliability are of paramount importance, the dominant standards are:

- › PSS-05-0 (ESA)  
Has been the main ESA standard for 20 years
- › ECSS-E-40 (ESA)  
Space Engineering Software  
Tailors ISO 12207 for space projects and describes the requirements for engineering space software applications
- › Galileo Software Standard (ESA)  
Published for the Galileo project



## Case Studies



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