

**EN 50128:2011
Certified**



CANTATA

Cantata has been classified a **Class T2 TOOL**, as usable in the development of safety related software, up to the highest safety integrity level (**SW-SIL 4**) as defined by the **EN 50128** standard



Cantata has been certified by **SGS -TÜV Saar GmbH**, an independent third party certification body for functional safety, accredited by Deutsche Akkreditierungsstelle GmbH (DAKKS).

AdaTEST 95

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

AdaTEST 95 has been successfully used by customers worldwide since the 1990s to meet the main international safety-related standards.

Sector Brief: Railways

In this sector brief we highlight:

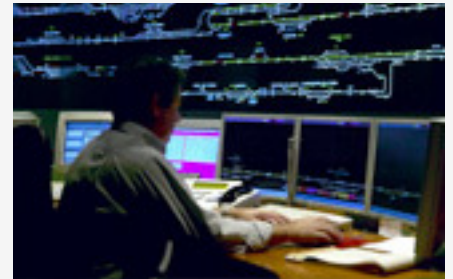
- > A selection of rail systems projects and customers who have successfully used AdaTEST 95 and Cantata to meet their high reliability testing needs
- > The key European railway EN 50128:2011 standard and how Cantata and AdaTEST 95 support project certification

Projects and Customers

Main Line Railway Projects

Regional rail, UK Channel Tunnel Rail Link, West Coast Main Line and others...

- > Thales Rail Signalling Systems
- > Siemens Rail Automation
- > Westinghouse Rail Systems
- > Ansaldo



Integrated Operations Control Centre System at Kowloon Canton Rail



Kaba Gilgen AG's Platform Screen Door Systems in Paris Metro Station

Metro Rail Projects

London Underground - Jubilee Line, Beijing Metro, Madrid Metro's Line 9, ATC, ATP and ATO Systems

- > Westinghouse Rail Systems
- Dimetronic



Thales Rail Signalling Systems ETCS Test Track Facility

ERTMS - ETCS

European Rail Traffic Management System - Interoperable European Train Control System

- > Thales Rail Signalling Systems (see Case Study)
- > Siemens Transportation Systems
- Dimetronic

Cantata Tool Certification Kit

Railways
Customers Include:



invenys

EKE
ELECTRONICS

SIEMENS

BOMBARDIER

ALSTOM

Lloyd's
Register

mermec

GE - Transportation

CUBIC

KABA
DOOR SYSTEMS

Ansaldo STS

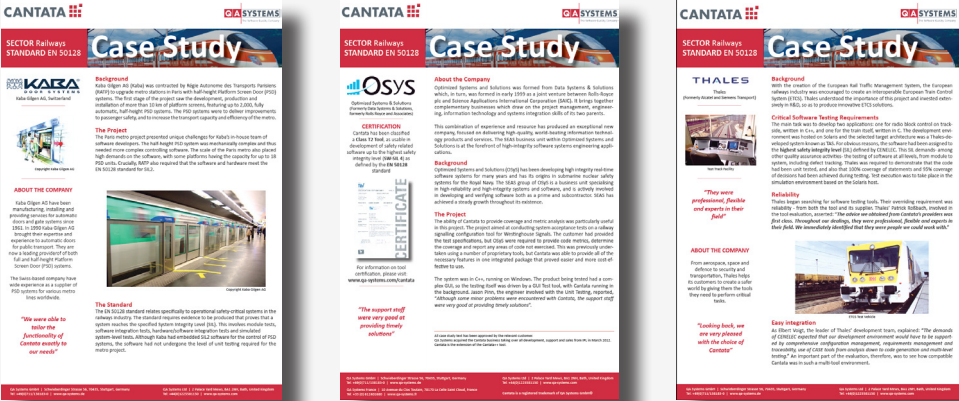
Casram
Railway & Industry Solutions



- > The **Safety Manual** provides guidance for how to use Cantata in a safety-related context, and to meet the requirements of independent tool certification
- > The **Standard Briefing** paper is intended to serve as a reference to show how Cantata can be used to satisfy the verification and validation requirements of the international standard EN 50128:2011
- > The **Certification** of Cantata was undertaken by SGS-TÜV GmbH, an independent third party certification body for functional safety, accredited by Deutsche Akkreditierungsstelle GmbH (DAKS) [accreditation ID: D-PL-12088-01-01]

Customer Case Studies

Our Customer Case Studies provide more information on how Cantata and AdaTEST 95 were successfully used by various companies worldwide.



Quicklinks

- > Customer Case Study: Thales
- > Customer Case Study: Kaba Gilgen AG
- > Customer Case Study: OSYS

All Customer Case Studies are available upon request