

**ISO 26262:2011  
Certified**



## Sector Brief: Automotive

**In this sector brief we highlight:**

- > The ISO 26262 software standard, used in the verification and validation of vehicle-based software
- > How Cantata and AdaTEST 95 support project certification



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### ISO 26262

ISO 26262, *Road vehicles - Functional Safety*, is a risk-based safety standard that defines functional safety for automotive equipment.



### Standard Requirements

Cantata's functionality specifically addresses the following sections of the ISO 26262 standard:

#### Part 6 Product Development - Software Level

- > Table 10 - Methods for Unit Testing
- > Table 11 - Methods for Deriving Test Cases for Software Unit Testing
- > Table 12 - Structural Coverage Metrics at the Software Unit Testing
- > Table 13 - Methods for Software Integration Testing
- > Table 14 - Methods for Deriving Test Cases for Software Integration Testing

#### Part 8, Section 11 - Supporting Processes, Qualification of Software Tools



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## CANTATA

Cantata has been classified as usable in the development of safety related software, up to the highest Automotive Safety Integrity Level (**ASIL D**), as defined by the **ISO 26262** 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.

Cantata Tool Certification Kit

Automotive Customers Include:



- > 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 ISO 26262:2011 standard
- > The **Certification** of Cantata was undertaken by SGS-TÜV GmbH, an independent third party certification body for functional safety, accredited by Deutsche Akkreditierungsstelle GmbH (DAKKS) [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: Highways Agency

All Customer Case Studies are available upon request



Bosch Engineering GmbH

