SCADE LifeCycle is a product line of the ANSYS® Embedded software family of products and solutions that includes modules combining a unique support for application lifecycle management.

This product line features requirements traceability management, configuration and change management, automatic documentation generation, and project monitoring.

SCADE LifeCycle enhances the functionalities of SCADE System®, SCADE Suite®, SCADE Display®, and SCADE Test with add-on modules that embed architecture and design activities within your whole Product/Application Lifecycle Management framework. With SCADE LifeCycle, all systems and software teams involved in critical applications development can manage and control their design and verification activities across the full life cycle of their SCADE® applications.

Read more about SCADE LifeCycle:

- “Requirements Management and Traceability”
- “Project Metrics Dashboard”
- “Project Documentation Generation”
- “Configuration and Change Control”

SCADE LifeCycle Requirements Management Gateway provides a complete traceability solution for safety-critical design process with SCADE System, SCADE Suite, SCADE Display, and SCADE Test:

- Capture of requirements and functional tests in a wide array of tools and formats:
  - Microsoft® tools: Word, Excel®, Access®, Visio®
  - Plain text files (C/C++ code files, textual requirements, test log files, etc.)
  - Technical Communication tools: Adobe® FrameMaker® and Acrobat® PDF
  - Requirements Management tools: IBM® Rational® DOORS®, Rational RequisitePro®, Borland® CaliberRM®,
  - Modeling and Design tools: Atego Artisan Studio®, MathWorks® Simulink® and Stateflow®
  - Test tools: IBM® Rational® Test RealTime
- Automatic consistency check of requirements
- Interactive analysis of requirements coverage unified across all products of SCADE family
- Automatic and customizable report generation of traceability matrices, coverage analysis, impact analysis
- Bi-directional navigation between requirements and tests
- Graphical management of traceability links between requirements or other structured documents and SCADE System, SCADE Suite, SCADE Display, SCADE UA Page Creator for ARINC 661, and SCADE Widget Creator for ARINC 661 models
- Traceability of test cases from Testing Environment projects

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1. Powered by Reqify®, a registered trademark of Dassault Systèmes or its subsidiaries in the USA and/or other countries.
SCADE LifeCycle Dashboard provides a web-based solution for monitoring project activities and Key Progress Indicators (KPI) within the development cycle of critical software applications:

- Predefined default metrics including requirements coverage, test coverage, SCADE Suite model metrics, generated C code ISO metrics, and safety-related metrics
- Consolidation of metrics data from other sources of monitoring data like CSV data or databases
- Generation of monitoring reports with graphics
- Customization of metrics
- Quick and easy customization of dashboards
- Web-based secured and ubiquitous access to project data from mobile devices or remote computers

SCADE LifeCycle Reporter automates the time-consuming creation of detailed and complete reports from SCADE Suite, SCADE Display, SCADE System, and SCADE UA Page Creator for ARINC 661 designs:

- Generation of reports in RTF or HTML formats
- Customization of report content and display
- Customization of generic report templates based on TCL scripting language
- Setting common documentation standards

- Reporter qualified as a verification tool under DO-178B and as DO-330 TQL-5 tool under DO-178C for SCADE Suite and SCADE Display applications
- Reporter certification data available from Esterel Technologies
- Integration with SCADE LifeCycle Requirements Management Gateway for reporting traceability information at model level

1. Powered by PRELYTIS LiveDashboard.
**Configuration and Change Control**

**SCADE LifeCycle Configuration Management Gateway** allows integration of SCADE Suite and SCADE Display models in a configuration management environment such as IBM Rational Synergy, IBM Rational ClearCase®, Serena Dimensions CM and PVCS®, CVS, or Microsoft Visual Source Safe™.

- Support of SCCI (Source Code Control Integration) standard
- Data stored in ASCII format
- Common management commands, such as check in/check out directly accessible from SCADE Suite and SCADE Display Editors

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**SCADE LifeCycle Product Line**

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<th>SCADE LifeCycle Requirements Management Gateway:</th>
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<tr>
<td>• Additional connectors: Atego Artisan Studio®, IBM® Rational® Test RealTime, Borland® CaliberRM®, Simulink®, National Instruments LabVIEW™ and TestStand™</td>
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- SCADE LifeCycle Configuration Management Gateway
- SCADE LifeCycle Dashboard
- SCADE LifeCycle Reporter