asureSIGN™

Requirement Driven Verification and Test

asureSIGN is a tool for managers, developers and integrators that ensures that product requirements have been successfully tested and implemented.

Using the latest in Requirements Driven Verification and Test (RDVT) methodologies, asureSIGN takes requirements engineering beyond the test definition of common requirements tracing practice by accumulating data on the status of verification and test metrics over the duration of a project and automatically relating these back to the specified requirements.

Improved Product Sign-Off

The rising complexity, time to market demands and variability involved in building complex requirements-critical hardware and software systems makes it essential that companies have a robust requirements driven sign-off capability.

Capture	Mapping
Proof	Document

This particularly applies to systems where the financial cost of failure is significant or when system security, safety or standards compliance are critical.

asureSIGN improves the sign-off process in a number of key areas:

- Requirements capture & management
- Mapping requirements to goals / tests
- Proof of implementation / results
- Documentation for audit / compliance purposes

The Advantages of Using asureSIGN

asureSIGN complements existing tools and workflows to offer significant advantages to managers and engineering teams working to ensure functional requirements are successfully implement.
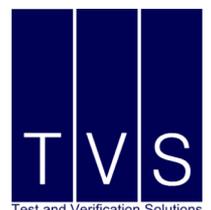
- Increased quality of the final product
- Reduced verification and test timescales
- Increased productivity of requirement, verification and test resources
- Improved project, requirements and verification management
- Enhanced compliance and audit documentation

What is RDVT?

The Requirements Driven Verification and Test (RDVT) methodology enables project progress to be analysed and managed by accumulating data on the status of verification and test metrics over the duration of the project and automatically relating these back to the specified requirements.
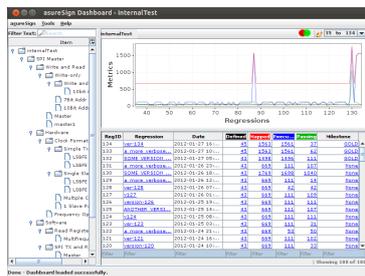
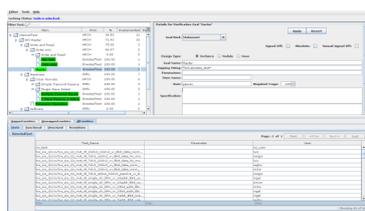> *"We feel that asureSIGN is the best placed tool in the market that allows us to demonstrate ISO26262 compliance."*
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> Infineon

TVS
Test and Verification Solutions
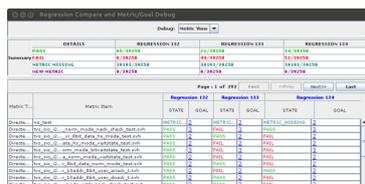
asureSIGN Screen Shots
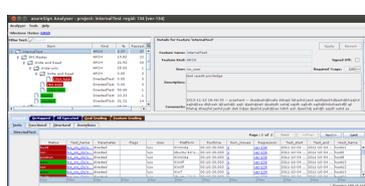
asureSIGN dashboard

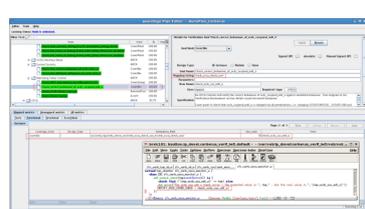
asureSIGN dashboard

asureSIGN regression analysis

asureSIGN requirement analysis

asureSIGN proof checking

Even though a wide array of tools are available for analysing source code and testing executable code, there are no tools that automatically track the results of tests as they apply to requirements.

Current common practice in requirements tracing stops at test definition, leaving unattended the need to ensure that requirements have tests defined against them and that these tests have successfully completed.

To ensure companies produce a correct product in a timely manner there is a clearly identified need for an approach and a tool that can address the key issues in requirements engineering and ensure requirements traceability through the complete work flow.

asureSIGN addresses this need and fills the gap between the wide array of Requirements Capture Tools and Test-only products.

A Quick Introduction to asureSIGN

asureSIGN implements the RDVT methodology by starting with the top level 'product' requirements or Test Plan that has been refined to a suitable level of granularity either external to asureSIGN or within the tools itself. A top level requirements hierarchy may also be written as a standalone test plan.

A rich suite of tools are provided within asureSIGN to implement the core functions of, and realise the advantages of RDVT.

Integrate & Enhances Current Sign-Off

asureSIGN is a proven solution to the problems identified within current verification and test flows and complements existing tooling to ensure that all requirements are proven to be implemented and working correctly.

Using a combination of a Graphical User Interface (GUI) and a Command Line Interface (CLI),

asureSIGN combines ease-of-use with flexibility. The CLI provides an indispensable means to achieve automation, providing access to an extended command set and allowing for batch updates via XML import and export.

Core Features and Functions

asureSIGN is supported on Linux and Windows[1], and delivers the following core functions.

- Requirements Capture
- Change Management
- Compliance and Auditing
- Auditable Documents Proofs
- Regression Analysis and Graphing
- EDA Tool Independent
- Configuration & Version Management
- Reuse & Variance Management
- Scalable
- Lightweight Tool Flow
- Quality and Completeness

Getting Started

To start using asureSIGN simply contact us to discuss you requirements and enquire about our:

- asureSIGN Evaluation Package

Additional Information

For a detailed look at the tools capabilities check out our online resources, including:

- Technical Videos
- White Paper
- Sample Screen Shots
- Customer Case Studies

About TVS

Test and Verification Solutions Ltd (TVS) provides services and products to organisations developing complex products in the microelectronics and embedded software and systems industries. TVS is operates globally with offices in: UK, France, Germany, India and Singapore and a network of international partners.

To download the free "Benefits of RDVT" White Paper
visit: http://testandverification.com/solutions/requirements/