

test.guide connects test execution and management

test.guide is a server application with a web user interface for managing various aspects of automotive software testing and integration. Data is stored in three databases: the main database (=report database), the monitoring database and the artifact database.

A client, the ResourceAdapter, can be downloaded for monitoring test resources. The application is written in Java.

Key features at a glance

Test report management

- Focus on visualization of test execution timing
- Diagram representation of test case status and test activity
- Comprehensive filters for reporting and analysis
- Time- and result-based filter and report views
- View and compare at test specification level
- Review support with integrated defect issue tracker

Test execution management

- Create and distribute test execution tasks
- List-based view of planned and executed test execution tasks
- Comprehensive filters for reporting and analysis
- Display of relevant execution parameters and results

Test artifact management

- Overview of attached file management systems
- Search and filter options for stored test artifacts
- Share and collaborate on test artifacts requirements, derivatives, test jobs, releases, ...

Test Infrastructure Management

- Create/modify/delete test resources (TR) and TestResourceMachine (TRM)
- Overview of all TRs including filtering
- Schedule TRs using calendars and appointments
- Assign attributes to TRMs
- Linking a TRM to a sensor/client (ResourceAdapter) to transfer monitoring data
 - Connection status
 - Monitoring status (CPU load, RAM, HDD, ...)
 - Component status
 - Characteristics
 - Activities
- Detailed view of information from TR and TRMs
- Compare TRMs based on characteristics

Release Management

- Test case coverage for requirements, derivatives, test requests, releases
- Detailed release overviews with distribution of results and test coverage progress
- Release Quality Gates for process control by staging

Dashboards

- Dashboards for the live view of test case execution status
- Widgets for creating different dashboards based on project filters

Interfaces, Tools and Data Management

Interfaces and Integration

- Automation-friendly interfaces based on HTTPS protocol
- Easy integration of custom test tools due to ASAM-ATX standard
- Seamless **ecu.test** integration
- User management with LDAP or OpenID Connect support

Supported tool connections

- Defect issue tracker connections within Review functions:
 - Jira
 - Microfocus ALM/QC
 - Microfocus Octane
- Custom connections exist for the following ALM systems:
 - Broadcom Rally Software
 - IBM Engineering Test Management-ETM (Formerly RQM)
 - Jama Connect
 - OpenText ALM/Quality Center (formerly HP Quality Center)
 - OpenText ALM Octane
 - PTC Codebeamer
 - SIEMENS Polarion ALM

Data Management

- File Management Systems (Server Based)
 - Amazon Simple Storage Service S3
 - Microsoft Azure Blob Storage
 - jFrog Artifactory
 - SFTP
 - SMB
 - NAS
- Database Support
 - Support for PostgreSQL database system
- File storage
 - Transfer test results via browser or API
 - Store any documents including meta information (category, author, comment)
 - Automatic saving via interface on report import or manually via website
 - Adapter for ASAM ATX documents
 - Parallel import of data from multiple test benches

System requirements

- OS:
 - Windows ≥ 10
 - Windows Server ≥ 2016
 - Linux Ubuntu ≥ 18.04
 - Linux Debian ≥ 9
 - macOS ≥ 10.12
- Docker:
 - Docker-Engine: $\geq 20.10.15$ or Podman $\geq 4.3.0$
- Free hard disk capacity (only **test.guide** application): at least 500 MB (installation, configuration and logfiles)
- Network: at least 100 MBit/s
- RAM: at least 6 GB
- Java 17
- Officially supported browsers:
 - Microsoft Edge from version 84
 - Mozilla Firefox from version 78
 - Google Chrome from version 84