



MegaRAC TUFMAN™

Advanced Test Utility Framework for DMTF-Compliant Manageability

Cross Platform Framework

- Automated test case generator
- Automated test case processor
- Automated report generation

Plug-In Architecture

- Profiles testing
 - Conformance
 - Use cases
- WSMAN testing
 - Web Services/Custom Operations
 - WSMAN Eventing
- SMASH CLP testing
- Future technologies can be easily incorporated

Easy To Use

- Easy Installation: few dependencies, simple exe
- Ability to provide wrong inputs
- Scripting support
- Different result formats

Supporting Tools

- Editor for XML and validation scripts
- Profile editor

Multiple Validation Processes

- Keyword based
- Regular expressions
- Rules based
- Scripting based



...a Generation Ahead

TUFMAN™ (Test Utility Framework for Management) is a tool for testing MegaRAC® software conformity to various DMTF management standards, such as WS-Management web services and SMASH Command Line Protocol, as well as actual CIM profile use cases.

TUFMAN™ is designed as a cross-platform framework with a plug-in architecture that can incorporate testing of new technologies in the future as well as third party testing modules. Three plug-in modules are available at present: Profile Testing, WS-MAN and SMASH/CLP. Other modules can be easily incorporated to test upcoming technologies.

TUFMAN™ provides automated tools for test case generation, test processing and report generation, with menus and toolbars as well as extensive scripting capability for managing the test process with ease and speed. Script libraries and examples are provided.

A tree view allows accessing Test Suites and Test Procedures. Test Suites represent a module in the target system, which can be associated with a Plug-in, such as WS-MAN, SMASH and CIM. A plug-in-layer provides a way to install, uninstall, connect, disconnect and process plug-ins. In this way, your investment in TUFMAN™ can extend its benefits over time, as new DMTF technologies are incorporated as new plug-ins.

Test Procedures represent a complete test. A wizard helps the user to define the procedure based on keywords, regular expressions, rules and regulations or scripts. The test procedure wizard has the option to set iteration count or failure action, prompting the user to react when the validation of a single testlet fails. Multiple Test Procedures are grouped in Test Passes, which can be executed automatically and generate complete reports and statistics.

The Test Processor will take care of the test execution. It provides features like organizing tests by grouping test procedures, establishing communication with target system through the plug-in associated to the test suite, processing the test cases, and storing the response.

The Debug View provides detailed feedback messages of great help for developers.

A report generating system provides various reports, such as test log, test log on selected procedures, defect log, defect log on selected procedures and project statistics.

The screenshot shows two windows from the TUFMAN application. The left window is titled 'Profile Conformance Test Procedure' and displays a list of testlets on the left and configuration options on the right. The right window is titled 'Result Statistics' and shows a pie chart and a table of test results.

Testlets	Iteration: TP * TL	Pass	Fail	Skip	Info	Warn
CIM_RegisteredProfile	1 * 1	1	0	0	0	0
CIM_ComputerSystem	1 * 1	1	0	0	0	0
CIM_HostedService	1 * 1	1	0	0	0	0
CIM_ElementConformsToProfile	1 * 1	1	0	0	0	0
CIM_ElementSettingData	1 * 1	1	0	0	0	0
CIM_OrderedComponent	1 * 1	1	0	0	0	0
Total Count	30	20	6	1	2	1