



Managing a complete test process becomes easier than ever

FAST FACTS

Challenges

Managing a complete test process and manipulating all raw, reduced data and more from structure dynamics test laboratory

Solution

- DynaWorks database server
- DynaWorks Test Center application
- DynaReport application
- DynaWorks Reader

Benefits

- Turn key solution
- Time saver in all test phases
- Guarantee security and availability
- Expandable capabilities

process of the structural dynamic laboratory. The solution is capable of integrating documentation such as the test plan, managing the sensor inventory, defining the test configuration and interacting with the data acquisition hardware, collecting the test result and generating the test report. DynaWorks was selected because it is the only solution fully compliant with their requirements.

The Solution

DynaWorks' solution provides a fully integrated package with a centralized database, display tools, post-processing toolboxes and automated report generation, all the solutions required by test centers such as NASA.

The new DynaWorks Test Center application provides enough flexibility to embed any type of test process and deliver a turn key solution. DynaWorks offers a process composed of five phases:

- Instrumentation of the unit under test and management of a sensor inventory interface with the calibration lab, and with the conditioning units
- Test configuration description
- Data Acquisition parameters and collection of test results and pictures
- Monitoring of the test results
- Generation of the test report

The centralized DynaWorks database server manages, in a single area, all the test information including the diverse data formats and their metadata coming from all test beds.

The Challenge

NASA Goddard's Space Flight Center Structural Dynamics laboratory looked for a global

solution to manage the complete test

The lab staff can connect from any LAN or WAN to the database with DynaWorks Professional Edition or DynaWorks Reader, and find the information they need, display raw or reduced data, logs or sensor calibration, run post processing tasks, compare tests or edit reports.

The DynaReport application is used to quickly edit professional test reports. The report is directly edited into MS Word and the application provides a direct connection with the test database data such as signals, reference documents, calibration information, pictures, test log files and test configurations.

The DynaWorks Reader application is used to access the test results without installing additional software on the computer. This application provides the capabilities to search, display, compare tests, and export the test results.

The Benefits

Using such a solution optimizes efficiency and reduces costs.

DynaWorks provides the capability of finding the correct information in a few clicks of the mouse and meets NASA requirements to maintain several years of test data. All test data is available online and instantaneously.

Despite the diversity of data types, all users are able to quickly locate these diverse data.

The automated report edition saves time, automating the report generation process.

The integrity and the security of all test data is guaranteed by DynaWorks database engine.

The Test Center database approach expands the use of this solutions to others' domains such as Thermal, EMI, Optics, Acoustics testing.

DynaWorks®: the software designed by a test center for test centers

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