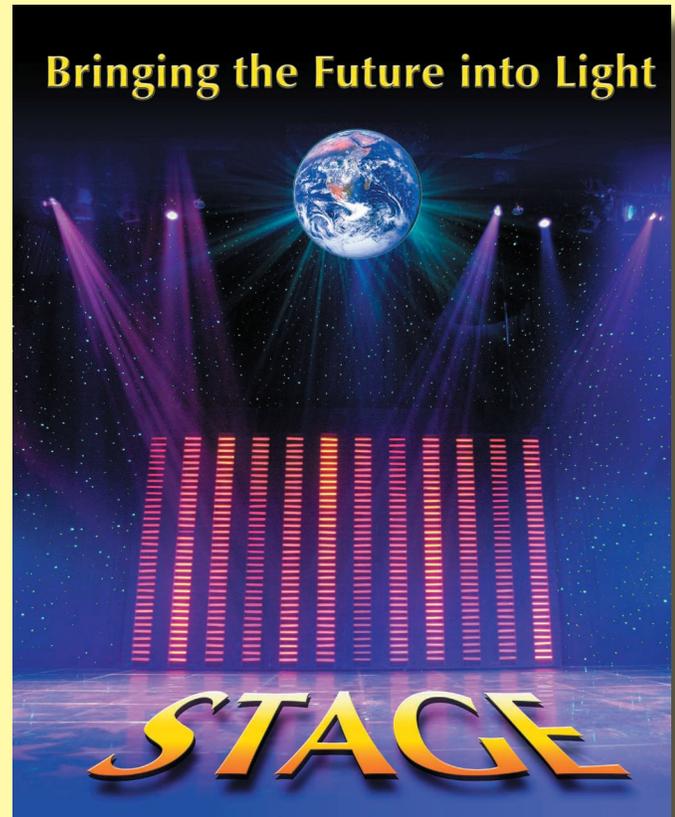# eXpress™ Newsletter

STAGE Premier Software Release!

STAGE is a turn-key engineering solution for System Health Management and Support, providing simulation-based assessments of the combined effects of different approaches to Design, Test, Diagnostics, Prognostics, Maintenance and Support. No other tool provides all these capabilities in addition to a flexible and efficient simulation environment.

Some of the primary benefits of STAGE:

1. Provides information for Business Case Decisions, assures rapid turnaround and high confidence of Trade Studies, supports the reuse of Diagnostic Engineering data within multiple applications

2. Because STAGE has been uniquely designed to simulate System Health Management and Support, it can easily out perform custom simulation solutions (which may require hundreds of hours to set up). It can also quickly and easily be modified to run alternative case study scenarios and trade off simulations

3. Design, Diagnostic and Maintenance data are all loaded into STAGE via automated mechanisms greatly reducing the effort needed to set up a simulation study in STAGE

4. In addition to its own assortment of calculation Libraries inherent to STAGE, any other calculations imaginable can be performed by STAGE through an easy-to-use script-editor within STAGE, providing analysts with complete control over the assessments performed

5. Beginning with the "ACT II" Release of STAGE, simulations will be based on phase modeling, which provides full control over the nature of the simulation itself

6. Improved Logistical Analysis (simulation-based Testability, Maintainability, Reliability, etc.)

7. Assess the combined effectiveness of multiple diagnostic approaches (embedded diagnostics, pre and post-mission maintenance, scheduled maintenance, prognostics, etc.)

8. Support simulation (computing LCC, AO, etc.) based on different plans for asset management (sparing, supply chain, resources, obsolescence, etc.)

9. Assess mission success in a reconfigurable system

Bringing the Future into Light

STAGE (ACT I) Operational Simulation & Support Analysis Tool

Available NOW!

This is a one-time-only opportunity to purchase STAGE at a Special Introductory Offer price in 2008!

(Contact DSI for pricing details at asales@dsiintl.com)

Inside this Issue...

DSI Video Technical Library

DSI launches on-line Video Tutorial (VT) Library!

High Performance VTs

High Performance Advanced Diagnostic Engineering

(See inside article)

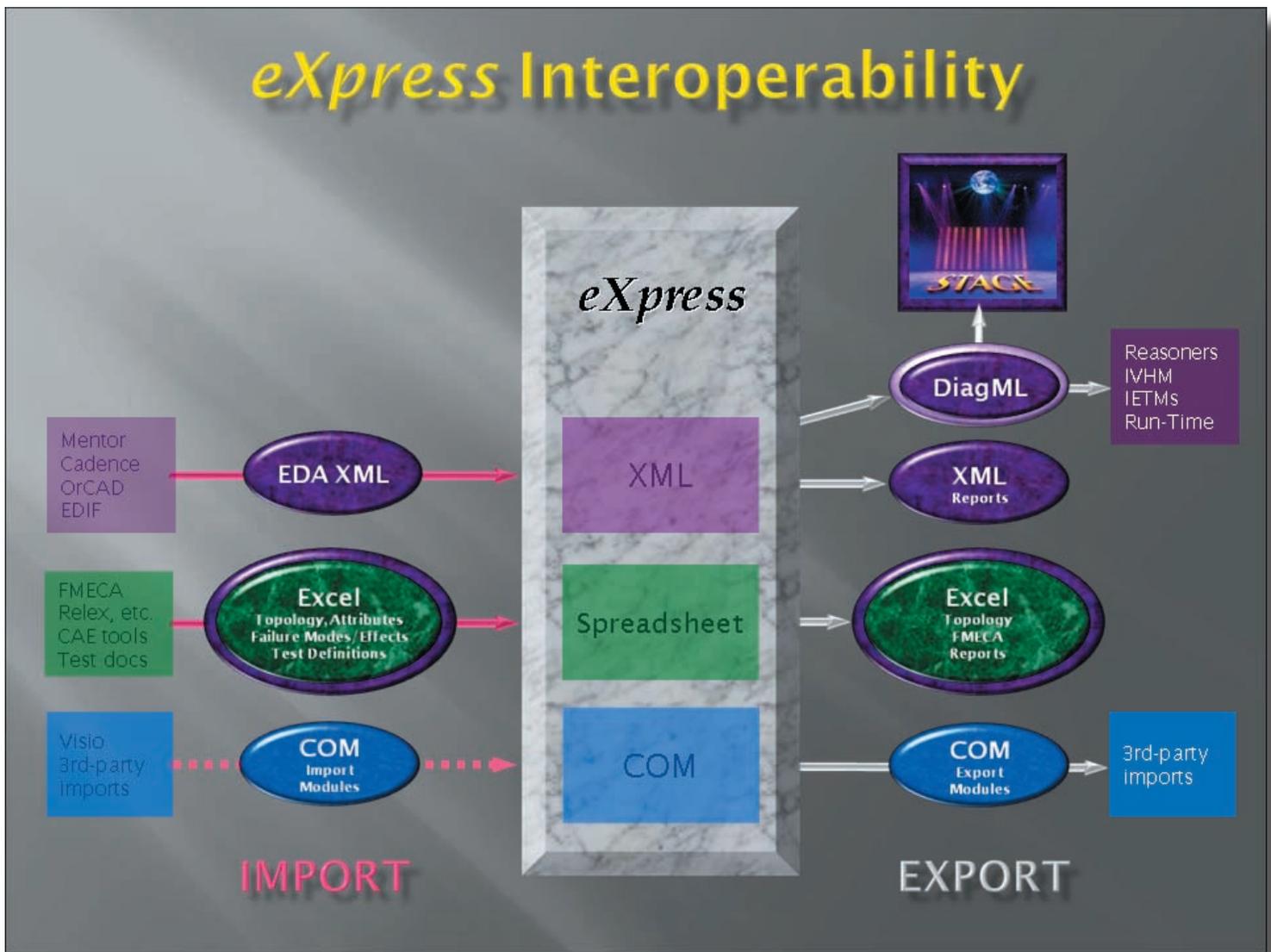# Interoperability - One of the Keys to Unlocking PHM Efficiency

The capability to share, manage and translate diagnostic, prognostic and related design data is paramount to unlocking PHM's efficiency.

Data comes from many external sources such as suppliers, subcontractors, and end users, and internal sources such as multiple functional groups (Reliability, Safety, Human Factors, Maintainability, Logistics, Systems Engineering, Software and Hardware Engineering, Test, Manufacturing, Quality, etc.). Data formats & contents vary significantly from program to program, company to company and supplier to integrator. Coordinating this data across multiple uses can

create a huge challenge if the tools being employed do not provide the necessary flexibility to import and export data from multiple sources and users.

DSI leads the way in integrating diagnostics and prognostics analyses and embedded PHM. *eXpress* provides a large array of import and export capabilities to minimize the workload in sharing data across applications for PHM development. This Interoperability is further enhanced through the Integrated Systems Diagnostics Design (ISDD) process. *eXpress*, coupled with ISDD, bridges the gap that many of today's applications do not address. Tomorrow's needs continue to be met as *eXpress* moves forward to address additional keys needed to keep PHM efficiency unlocked.

Obtain the DiagML schema for "FREE" today!

XML Diagnostic Data Exchange schema can be obtained *absolutely free* by visiting the **DiagML.com** website or by contacting info@dsiintl.com. Improve the value of your data by leveraging it for reuse in other major Advanced Diagnostic and PHM Tools, Reasoners and IETMS.

DSI Video Technical Library

New!

eXpress™ Video Tutorials Now Online!

Check out the DSI Video Technical Library today! It contains many *eXpress* Video Tutorials which will guide you through features, capabilities and process enhancing tips!

Convenience: The primary purpose for the producing of the VTs is to provide a convenient means where anyone can have a 24/7 resource available to shed expertise on many areas of diagnostic and prognostic engineering with *eXpress*.

Expert Guidance: You can't get any better than having the masters personally guide you through the proper and most efficient use of the tool, techniques and diagnostic engineering processes.

Comprehensive and on-going enrichment: *eXpress* is a very comprehensive tool that continues to be enriched in features and capabilities, whereby the most effective use of these newer and/or robust features may necessitate immediate access to individual instruction. As such, we expect that the Video Technical Library resource will be not only convenient, but serve to appeal to all levels of technical expertise or management in building advanced skills and knowledge in the area of ISDD (Integrated System Diagnostic Design) for their organization and their future endeavors. (www.DesignForTestability.com)

DSI VT libraries have been simplified into three categories: Management, New Users and Current Users. "Management" videos tend to be high-level introductions to software features and the tasks that can be performed. These videos may be useful not only to company and project managers, but also to anyone else who could benefit from high-level discussions (including customers). The VTs targeted for "New Users" cover basic software skills and capabilities, whereas those targeting "Current Users" range from intermediate to advanced topics.

Check out the Video Tutorial (VT) Library – Organized to efficiently save you time

- Get an overview
- Brush up on a "how-to" by viewing a step by step
- Learn new features and skills
- Maintain level of expertise
- Learn advanced diagnostic techniques
- Learn how to reuse and maximize data from other sources
- Understand the details
- Time saving tips and tricks
- Many are free

Visit the DSI website to check out the VT Library and for more info on this exciting new release!   **www.dsiintl.com**
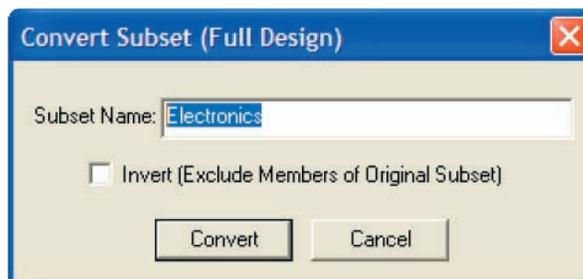
Training Schedule

Course Number	Pre-requisite	Course Description	Dates	Location	POC
100		System Diagnostics Concepts and Applications	12 Jan, 2009	Orange, CA	Denise Aguinaga , DSI
110	100	Basic Modeling & Introduction to Testing	12 Jan, 2009	Orange, CA	Denise Aguinaga , DSI
120	110	Introduction to Testing & Analysis	15 Jan, 2009	Orange, CA	Denise Aguinaga , DSI
200	120	Advanced Diagnostic Development & Assessment	26 Jan, 2009	Orange, CA	Denise Aguinaga , DSI
205	200	Advanced Test Development & Importing	28 Jan, 2009	Orange, CA	Denise Aguinaga , DSI
210	205	Advanced FMECA Development & Assessment	30 Jan, 2009	Orange, CA	Denise Aguinaga , DSI

eXpress™ 5.10.8 Release

There have actually been two new releases of *eXpress* since our last newsletter; Release 5.10.7 in May 2008 and the new 5.10.8 release. Aside from the general fixes and process enhancements, 5.10.8 provides a new operation when working with subsets.

A new subset Invert option has been added to the Convert operation for subsets, allowing a subset to be made containing all design elements of the same type as those in the source subset, but excluding those elements in the source subset. A new "Convert Subset" dialog (shown right) appears when this operation is invoked, allowing the analyst to specify the name for the newly created subset, as well as indicate whether or not the elements in the source subset should be inverted in the new subset.

Convert Subset (Full Design)

Subset Name: Electronics

☐ Invert (Exclude Members of Original Subset)

[Convert]   [Cancel]

This new option can help to increase modeling efficiency when creating and defining subsets.

Visit the DSI website for more info on this exciting new release!

eXpress™ 5.10.9 to be Released in late November

"Thanks" may be given upon the upgrading to the *eXpress* 5.10.9 Release that will feature a cornucopia of upgrades to the Test Point Placement Report. For an appetizer, this Test Point Placement Report has been significantly enriched with capabilities that will allow you to easily:

· **Evaluate Relative Values of Tests in Legacy Designs**

· **Evaluate Relative Values of Tests using Different Diagnostic Approaches**

· **Discover how to Improve Testability**

VTs on these capabilities and others are immediately available for all *eXpress* Licensees – contact DSI for further details (info@dsiintl.com).

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