

DSI's Visit to Japan

A very big "thank you" goes out to Y-Max, our representative firm in Japan, and specifically, Nishita Tetsushi, Masayo Tagami, Tomohiro Kimura and Abe Tsuneaki for greatly assisting us during our October visit to Japan. DSI had the opportunity to spend both business and pleasure time with Y-Max staff including "Tets", Masayo, "Kimurasan" and "Abe-san", which was absolutely worthwhile and enjoyable all around!

We also had the pleasure of being escorted on a long drive through northern Japan with our top-notch staff at Y-Max, where we had special moments to capture the beauty of the countryside while learning more about the Japanese culture. That will always be a valuable and unforgettable personal experience.



Going forward, DSI and Y-Max met with some very promising new customers that are giants and very well respected in the Aerospace and Defense Industries. As a result, we have scheduled Diagnostic Engineering Courses in Japan Nov. 24 - Nov. 27, 2009. We wish everybody well and greatly look forward to our return visits to Japan.



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2009 eXpress Users Group

On behalf of DSI International, I would like to thank all of you that attended the **eXpress** Users Group Conference last September in Anaheim. Specifically, we would like to acknowledge our special guests and presenters - many of whom traveled from over seas to participate in one of our best Users Group Discussions.

The **eXpress** Users Group event is typically held in the US every third year and overseas midway between our domestic hosting of the event. Since the previous **eXpress** Users Group was held in France in April 2008, DSI is planning on hosting the next **eXpress** Users Group in Asia in the Spring of 2011. More information will become available as the next event becomes more imminent.

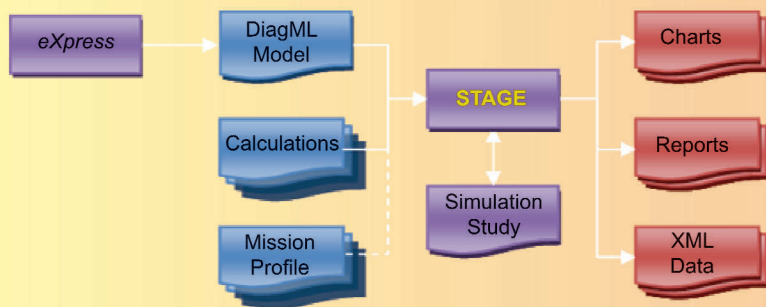
Many organizations were represented at this year's event including Boeing, EADS Test and Services, MBDA, Northrop Grumman, Raytheon, The Ridgetop Group, United States Army and Y-Max. All in attendance participated in the discussion and much information was shared and learned by each and every one of us. This was a valuable session and we look forward to continuing this forum in the future for our **eXpress** and Diagnostic Engineering customers.



DSI's New Systems Health Management and Operational Support Simulation Tool - STAGE

STAGE is an important element in DSI's Integrated Systems Diagnostics Design (ISDD) Process, which promotes collaborative, proactive diagnostic design principles to ensure that the maximum benefits are derived from an organization's collective analysis efforts.

STAGE, by performing diagnostic and prognostic health management processes in a simulated, yet "realistic" theater, bridges gaps between contract requirements (which reduce complex system behavior to a few simplified metrics) and actual system performance.

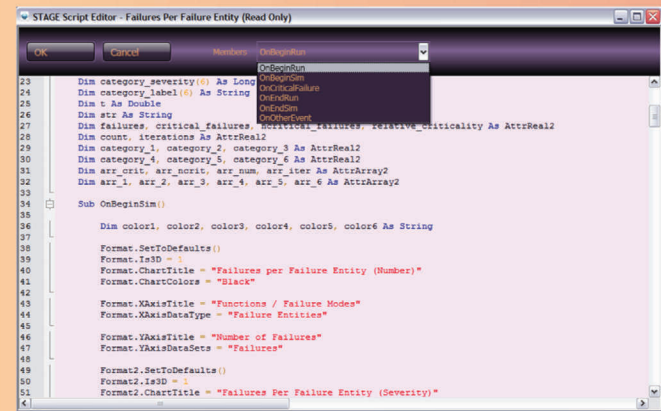


For the first time, you will have the internal capability to perform meaningful Prognostic and Health Management evaluations using STAGE calculations that consider the aggregate diagnostic/prognostic testing capabilities of the entire end product, or Integrated System. This empowers the Vehicle, or Systems Integration teams to influence and optimize Health Management effectiveness through decisions that are based on evolving or maturing design information that is also directly traceable to the actual diagnostic/prognostic design of the components, sub-system(s) and fully Integrated Systems.

Assessments in STAGE are incredibly simple to set up since it leverages the information contained in your integrated System models residing in **eXpress!** A simple export from the **eXpress** Diagnostic Study, will "push" the data necessary to populate the STAGE Simulation analyses.

With STAGE, the analyst can easily simulate diagnostic performance over time, creating graphics & reports that depict various aspects of diagnostic prognostic, maintenance and support effectiveness at any point in a system's lifetime.

Many of the calculations in STAGE are traditional metrics that have been mapped "over time" to provide a richer understanding of the effects of various design decisions upon product ownership.



With over 120 pre-defined graphs (plus the ability to extend the stock library with the user-scripted calculations), STAGE can perform System Health Management and Operational Support simulations with surprisingly little effort.

STAGE offers an extensive library of pre-defined calculations that are parameterized for easy customization. Because all STAGE calculations are scripted, analyst, can easily modify calculations to better the objectives of a specific project, or create their own calculations for truly custom analysis.

STAGE simulates discrete events based on a Monte Carlo process. Because results are typically based on data from a number of random, yet representative simulation runs, STAGE provides the perfect balance of randomness, rigor and repeatability.



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@dsintl.com. Improve the value of your data by leveraging it for reuse in other major Advanced Diagnostic and PHM Tools, Reasoners and IETMS.

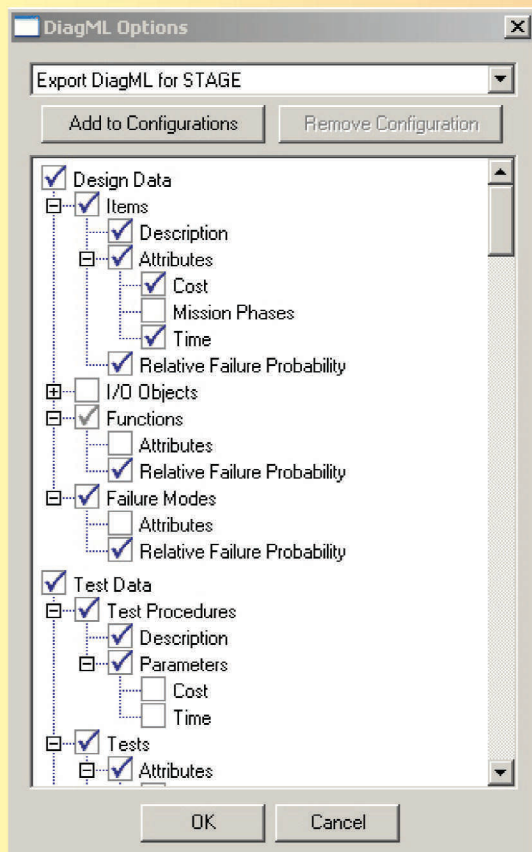
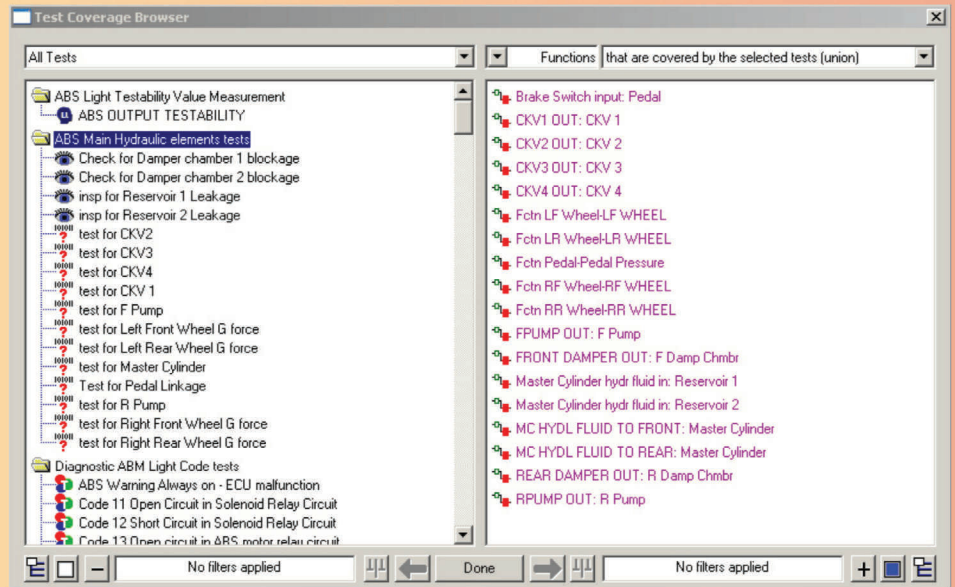
eXpress™ 5.10.9 Release

New Test Coverage browser

The **eXpress** Test Coverage Browser is a powerful new tool for examining and comparing the coverage of one or more tests, functions and failure modes within an **eXpress** design.

New Improved Importing of Failure Modes and Effects

The Failure Mode and Failure Effect imports have been updated to significantly simplify the importing process. The new imports support a wider variety of spreadsheet formats—with less setup effort.



New Copy Dependencies Operation

A new Copy Dependencies operation allows an output function's dependencies to be easily copied to one or more other functions on the same object.

New Ability to Automatically Generate Object States

Object states can now be automatically created for output functions on one or more objects in an **eXpress** design.

New Manage Design Templates Feature

The creation, editing and use of design templates can now all be managed using a single dialog.

New Adjust Failure Rate Percentages Operation

The percentages that are assigned (or imported) to individual failure modes can now be automatically adjusted to add up to 100% (or another specified percentage) using the new Adjust Failure Mode Percentages operation.

Training Schedule

Course Number	Pre-requisite	Course Description	Dates	Location	POC
100		System Diagnostics Concepts and Applications	11 Jan, 2010	Orange, CA	Denise Aguinaga , DSI
110	100	Basic Modeling & Introduction to Testing	11 Jan, 2010	Orange, CA	Denise Aguinaga , DSI
120	110	Introduction to Testing & Analysis	14 Jan, 2010	Orange, CA	Denise Aguinaga , DSI
200	120	Advanced Diagnostic Development & Assessment	15 Feb, 2010	Orange, CA	Denise Aguinaga , DSI
205	200	Advanced Test Development & Importing	17 Feb, 2010	Orange, CA	Denise Aguinaga , DSI
210	205	Advanced FMECA Development & Assessment	19 Feb, 2010	Orange, CA	Denise Aguinaga , DSI

For more information, visit our web site at www.dsiintl.com

Cranfield UNIVERSITY

DSI had the opportunity to meet up with the Cranfield IVHM team in the UK this past July after a stop in Stevenage earlier in the week. DSI is looking forward to furthering its relationship with the Cranfield University IVHM Team!

Known for their work in the IVHM, Cranfield University and the Boeing Company have launched a centre of excellence focused on Integrated Vehicle Health Management (IVHM) located at Cranfield University just north of Stevenage.



Boeing has been joined by BAE Systems, Rolls Royce and Meggitt. All four companies as core partners have each committed \$1 million over five years to IVHM research.

DSI's contribution to the discussion, or any IVHM discussion, always begins with the concept of Influencing the Design for IVHM, which is a valuable by product of using eXpress in the Integrated Systems Diagnostic Design (ISDD) Process.

DSI Welcomes James Fritts

DSI is pleased to announce the latest addition to the team of Diagnostic experts. Jim brings over 17 years of experience in industrial system engineering design and support from Domino Lasers, Inc. Jim has an extensive background in software design for manufacturing and support.



Jim's experience also includes custom database design, administration and integration with ERP systems. Jim is presently working as a systems modeler and technical support representative for contract engineering support. As a software engineer, Jim is working with Eric Gould, Senior Software Engineer, toward future product development, and to become certified to teach DSI's 100-Series Diagnostic Training Courses.

Welcome aboard Jim!

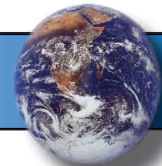
PHM and IVHM, First things First!!

Don't ignore the need for employing sound Diagnostic Engineering practices in trade for jumping on the back of the Health Management (HM) stallion! Put a saddle on that HM Stallion first before you go riding into the wild blue yonder - It is imperative that we make every effort we can in taking advantage of a host of valuable benefits from mature Diagnostic Engineering Processes, before we go for a wild HM ride.

Through mature Diagnostic Engineering processes, the HM can be optimized, synchronized and in balance with the diagnostic design, logistics and support profile for the entire Integrated System. Further, this will allow many alternatives and options for reusing, or enriching the HM with many more commercial or ancillary tools and processes so activities including reasoners logistics and publications, along with others, are automatically included and tied directly to the diagnostic design as a unified entity!

Remember to use the control and protection of the saddle before riding any HM Stallion!!

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