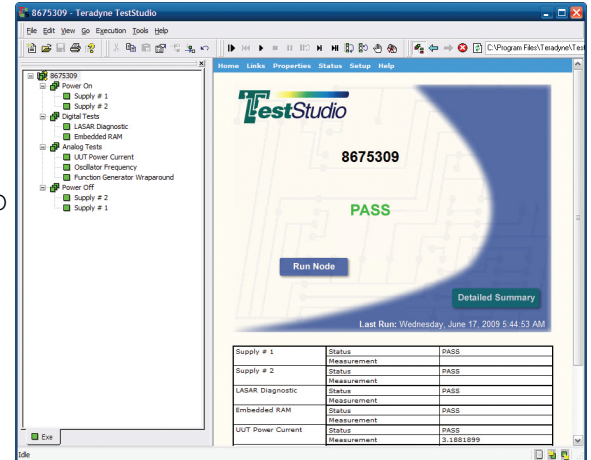## TPS Converter Studio™ Software

Test Program Rehost Solution for L-Series™ to Spectrum-9100™ & Di-Series Migration

TPS Converter Studio is Teradyne's test program conversion product for process oriented conversion of L-Series language to Teradyne digital instruments and Spectrum-9100 tests and diagnostics. TPS Converter Studio organizes the L-Series program-conversion task into sequential steps to ensure a smooth migration to your Di-Series and M9-Series based test environment. Each step features an intuitive, easy-to-use graphical user interface for setting up and selecting translation options and analyzing results.

Detect Conversion Problems Upfront

Starting with the source program file organization and screening step, TPS Converter Studio reviews your L-Series test program source files. The software flags any architectural or syntactic inconsistencies between the L-Series source files and the target environment that cannot be handled directly by the translator and makes recommendations for resolving them. Because the screener catches translation problems right upfront in the process, coding iterations due to problems detected during test program integration on the target test system (a major driver of TPS rehosting costs) are dramatically reduced or eliminated.

For each conversion problem identified, TPS Converter software summarizes the problem and provides a hyperlink to the underlying code. Click on the link, and you enter a viewer/editor that focuses right on the code segment in question. TPS Converter Studio provides a Query Engine to query the reports generated during the Screen step from multiple TPSs and allows the user to data-mine the TPS contents and do advanced analysis across multiple TPSs in a short time.

Integrated with C-Code Development Tools

When C-code implementation and compilation of the translated files is required, you can invoke either Visual Studio or LabWindows/CVI application environments right from TPS Converter Studio. This gives you the convenience of working with the coding tools that suit your comfort level. Following code compilation and debug, you can build a DLL or EXE file and save it in a local

Features

- Completely converts L-Series digital tests and diagnostics to Di-Series and M9-Series Digital Test Instruments
- Automates standard L-Series analog to Spectrum-9100 support
- Process-oriented GUI organizes each conversion task
- Test program screener flags potential conversion problems with suggested resolutions
- Tightly integrated with Visual Studio and LabWindows/CVI
- Automatically builds a TestStudio project ready for Spectrum-9100 integration
- Automates the batch conversion of multiple TPSs
- New Analyzer feature performs detailed analysis and reporting of the digital capabilities employed across multiple TPSs
- Process-oriented GUI provides guidance through each migration step, ensuring complete and accurate conversion

reuse library for later incorporation in your new test.

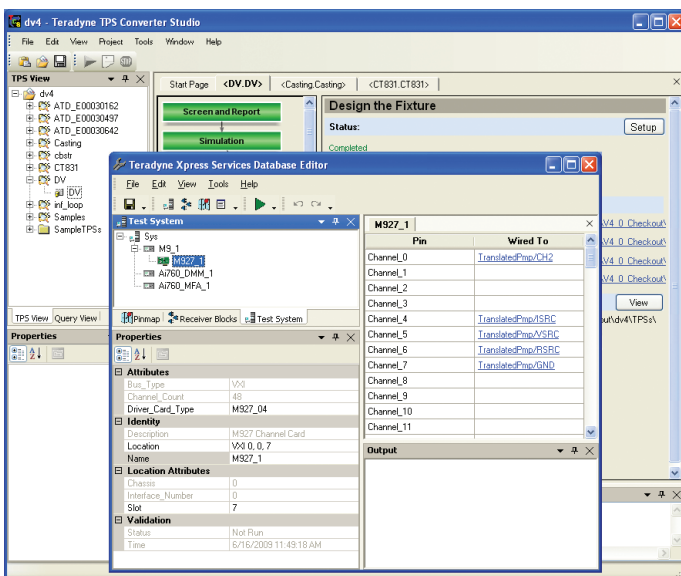## Automatically Builds a TestStudio Sequence

When using Teradyne's TestStudio on your test system, all high-level test procedures are represented as individual steps in the TestStudio sequence. This makes it quick and easy to visualize the flow of your test program and augment it with additional operator interface features or diagnostic branching if desired. By using the TestStudio DLL add-in, test step parameters are easily specified and passed to the test routine. Measurement results are captured for test logging or use at other test steps.

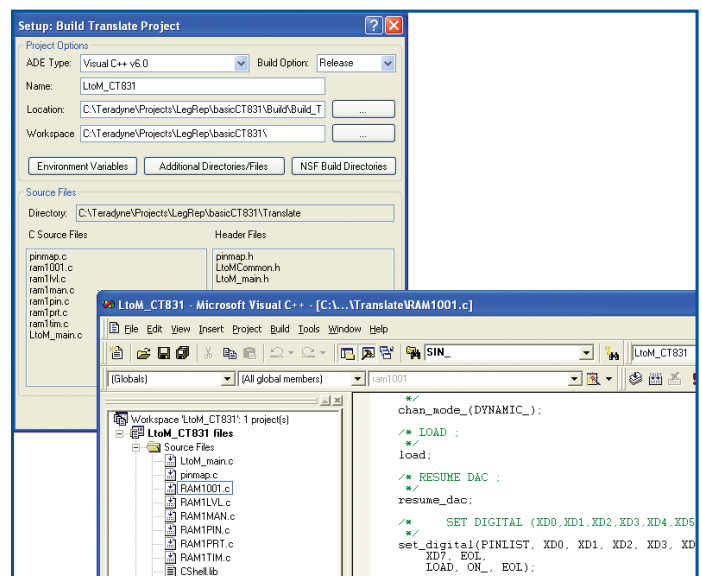## Tight Integration with Test System Configuration Data

TPS Converter Studio takes advantage of the Spectrum-9100 Xpress™ Services system configuration databases in TestStudio. Access to these databases facilitates test program migration by providing the converter with all the physical and functional information about the target test system.

In the Design the Fixture step, for example, the test system instrumentation and ITA receiver wiring information for your Spectrum-9100 host is automatically accessed and, when presented with the UUT pinmap, can be validated to ensure logical routing from UUT pins to the appropriate signal source and measure instrumentation in the new test system.

TPS Converter Studio brings process and best-in-class tools together in a highly integrated environment to reduce the time and take the guesswork out of legacy L-Series based TPS migration. TPS Converter Studio runs under Windows 2000, Windows XP and Windows7.

Popular C-language programming applications are conveniently accessed directly from within TPS Converter Studio.

Knowledge of the Spectrum-9100 hardware configuration is integrated into the TPS conversion process, providing accurate resource matching and routing.

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