

VISToolkit®

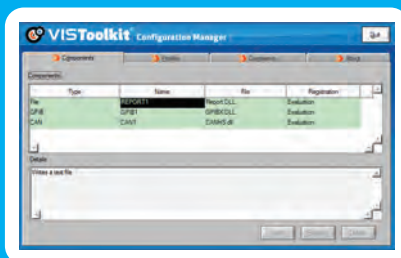
your real virtual instrument solution

3 STEPS to Virtual Instrumentation

STEP

1

INSTALL
the virtual instrumentation

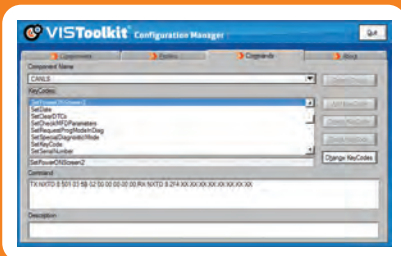


- GPIO
- EXCEL
- DMM
- DATALOGGER
- CAN
- PRINTER
- I/O
- TRACEABILITY
- LIN
- AUDIO
- FPGA
- RS-232
- TCP/IP
- ANALYSER
- VISION
- DSA
- REPORT
- RF GENERATOR
- DISPLAY
- DMM

STEP

2

CONFIGURE
the commands



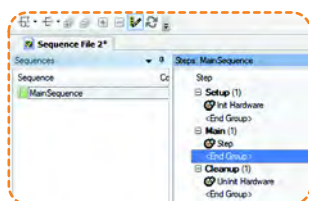
- ▶ Edit the predefined...
- ▶ Use and edit the pre-defined commands and parameters.
- ▶ Add new commands and its parameters to fulfill your needs
- ▶ Configure your virtual instruments

STEP

3

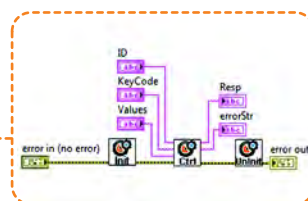
USE IT
on TestStand, LabVIEW or LabWindowsCVI

NATIONAL INSTRUMENTS TestStand™



- ▶ Use the VISToolkit pre-configured Steps on TestStand
- ▶ Use all the TestStand Power and Flexibility
- ▶ Configure each Step with simple Forms

NATIONAL INSTRUMENTS LabVIEW™



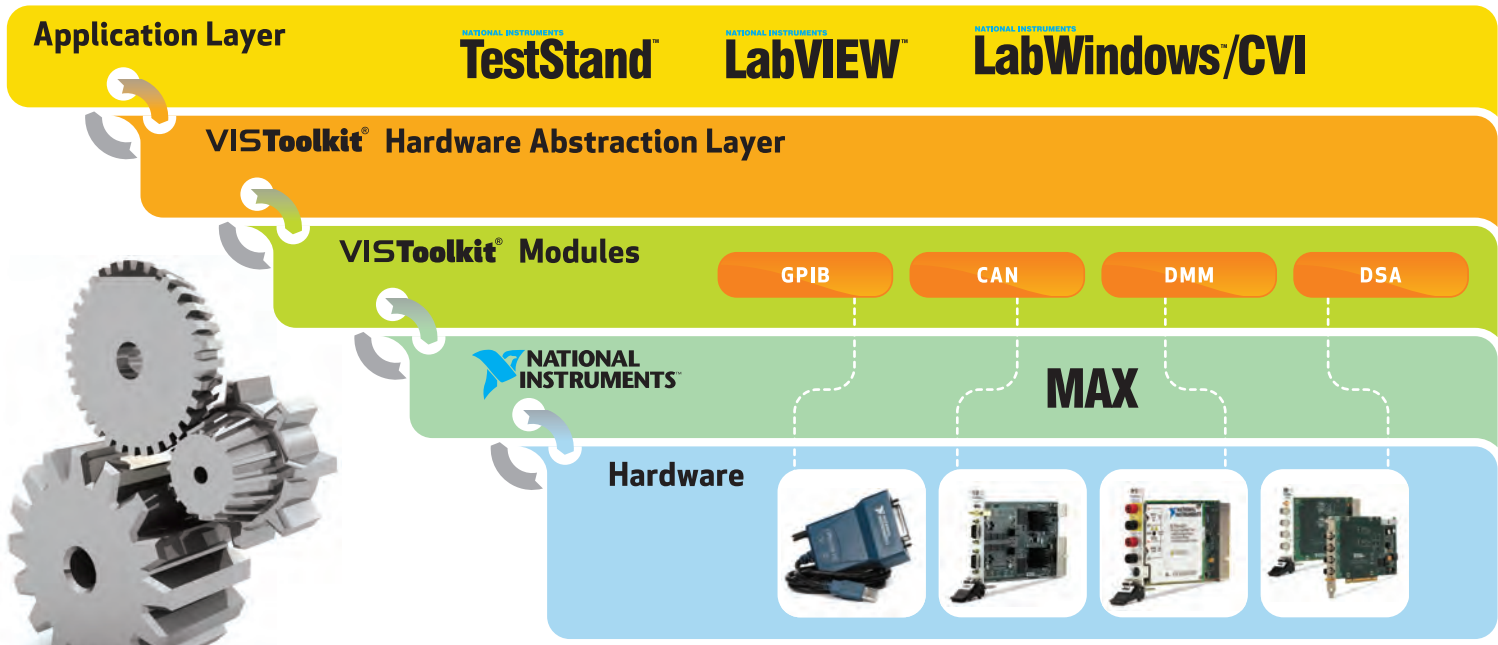
- ▶ Drag&Drop the VISToolkit VI on LabVIEW
- ▶ Don't need to control the individual initialization of each device that you will need, just Drag&Drop the VISToolkit Init VI
- ▶ Use the Output of the VISToolkit VI as you need

NATIONAL INSTRUMENTS LabWindows™/CVI



- ▶ Use The VISToolkit Library to program in C

VIS Toolkit Layer's Structure



Modules' Gallery

Audio	Analyser: Perform the most used audio analysis functions with the possibility of using different kind of filters and choosing different sampling rates: Vrms, Peak, frequency, THD, THD+N, SINAD, among other. Generation: two independent channels audio generation with different waves possibilities. Prerequisites: PXI/PCI-446X, PXI/PCI-447X,...
DMM	Acquisition: Measures AC and DC voltages with high speed and accuracy. Allows range and digit precision selection. Prerequisites: PCI-4065, PCI-4070,...
GPIB	Communication: This 30 year old bus communication is done by simple write and read commands that send and receive data from the GPIB bus. The commands are flexible in order to accept different argument values. Prerequisites: NI PCI-GPIB (IEEE 488),...
CAN	Communication: Interface ideal for automotive test systems, diagnostics and measurements. The hardware is easily configured when it comes to High Speed and Low Speed Baud Rates. The CAN frames aren't hardcoded, thus, new CAN frames may be added easily and quickly. Prerequisites: NI USB-8472, NI USB-8473, NI PXI/PCI 85XX,...
LIN	Communication: Interface ideal for automotive test systems. The hardware is easily configured and LIN frames may be added quickly. Prerequisites: NI USB-8476,...
RS-232	Communication: The standard for serial communication is done by simple write and read commands that send and receive data from the serial bus. Prerequisites: RS-232 Serial Port, NI USB-232, NI PXI-8430,...
Printer	Communication: Based on the RS-232 protocol, the Printer sends hexadecimal based commands to a ticket printer and prints a ticket with the desired text. In the end, a cutting command may be sent to automatically cut the ticket. Very useful when information is required to be placed on a product. Prerequisites: STAR TicketPrinter or equivalent, RS-232 Serial Port,...
Report	Utility: A text based file that stores information. The data is separated using semicolons to import to MS Excel or to OpenOffice Calc.
Excel	Utility: Automatically display data in an Excel Spread Sheet and create data charts and graphs. Prerequisites: MS Excel
Display	Utility: Display a graphic or a chart from a data source and manage the graph and chart appearance as desired.
DataLogger	Utility: Saves acquired values to a file and repeats the values to be managed with TestStand or LabVIEW.
COMING SOON	
Vision	A tool able to make shape inspection, pattern comparison, position/angle detection, text reading and Optical Character Recognition (OCR).
MOST	An interface for the standard on multimedia and infotainment networking in the automotive industry.
FlexRay	An interface for the standard on multimedia and infotainment networking in the automotive industry.
RFLight	Generation: Basic Modulations like AM, FM, FM-Stereo, RDS Prerequisites: PXI-567X
RFPremium	Generation: AM, FM, FM-Stereo, RDS, DAB, GPS Simulation, HD Radio, SIRIUS, DVB-T Prerequisites: PXI-567X



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