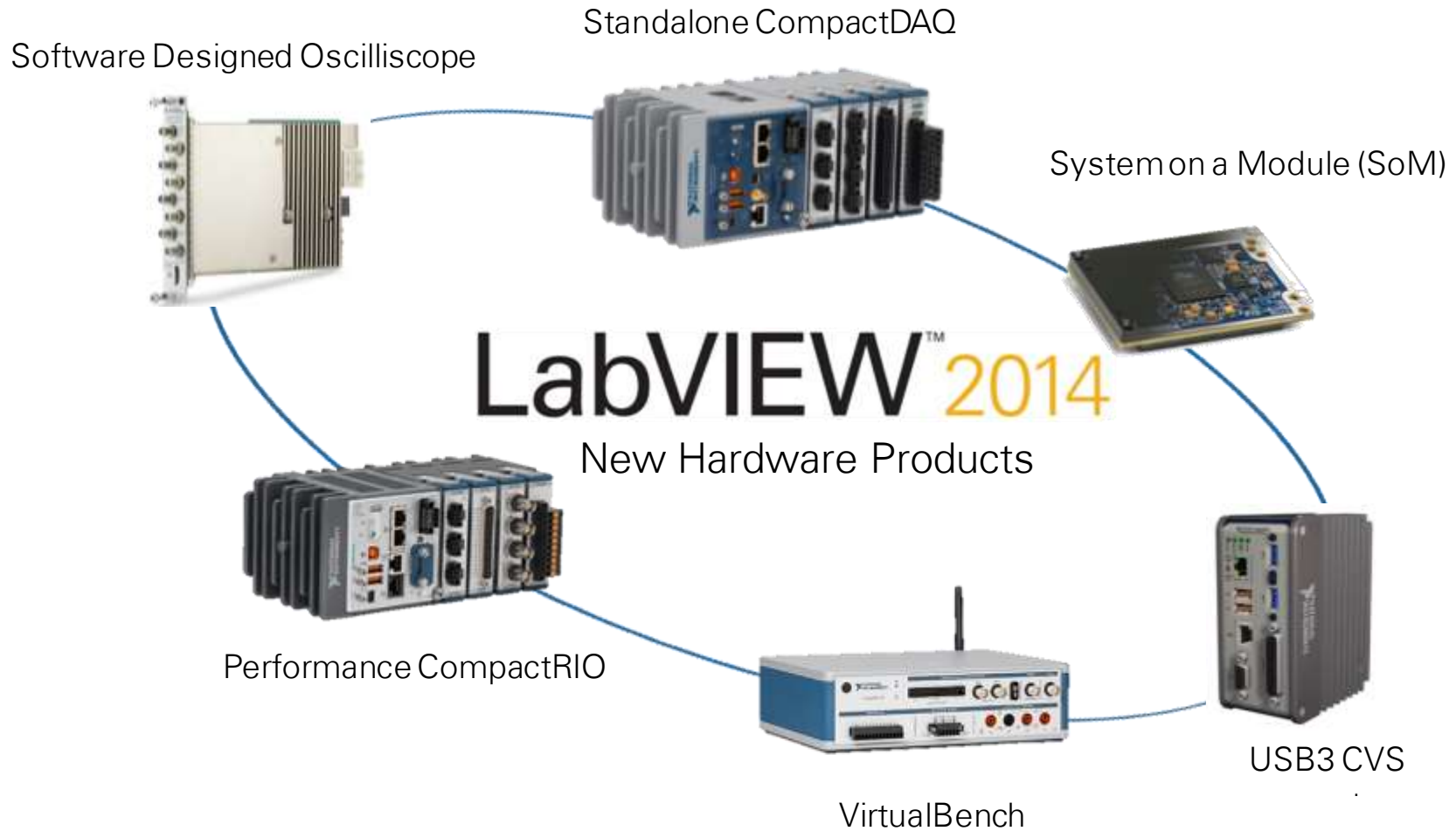


LabVIEW™ 2014

What's New in LabVIEW 2014

Unrivaled Integration with the Latest Technology



Application-Specific LabVIEW Suites



LabVIEW Embedded Control and Monitoring Suite

Includes NI LabVIEW Real-Time and FPGA Modules



LabVIEW Automated Test Suite

Includes NITestStand and Switch Executive



LabVIEW HIL and Real-Time Test Suite

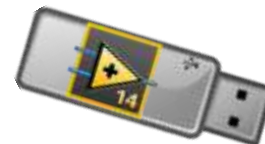
Includes NI VeriStand and LabVIEW Real-Time and FPGA Modules

The Tools You Need

New **LabVIEW Suites** group
LabVIEW Professional with all the
tools you will likely need for your
application

Convenient USB Install

Suites are distributed on a **USB 3.0 flash drive** with all the software and
drivers you need already included



Value Added to Existing LabVIEW Editions

Full Edition

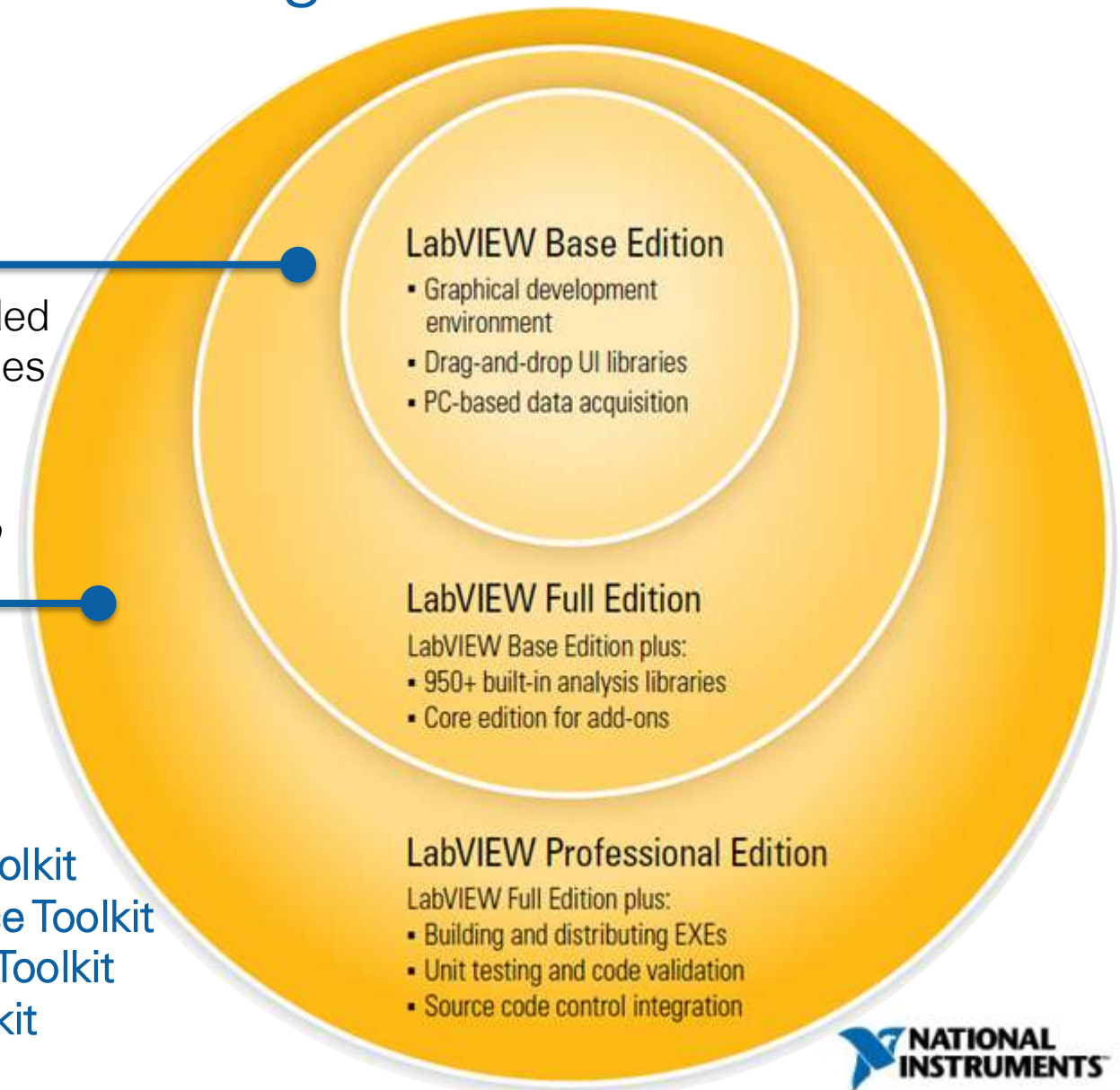
Make advanced control applications through included **PID and Fuzzy Logic** palettes

Professional Edition

Trace low-level bugs, validate coding practices, and manipulate data through the now included:

- **VI Analyzer Toolkit**
- **Unit Test Framework Toolkit**
- **Desktop Execution Trace Toolkit**
- **Database Connectivity Toolkit**
- **Report Generation Toolkit**

ni.com



New Taskbar Icon

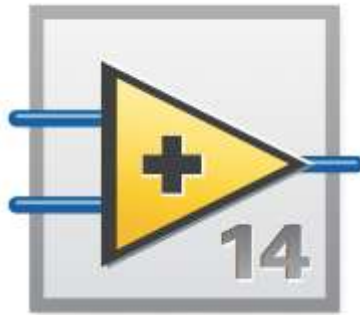
32-bit



64-bit



64-bit for Mac and Linux Desktop OS



Windows

Mac OS X

Linux

Run Algorithms and Models on NI Linux Real-Time

Add-on Modules with LabVIEW Real-Time Capability

- Native LabVIEW solution
- No code generation or 3rd party software required

MathScript RT Module

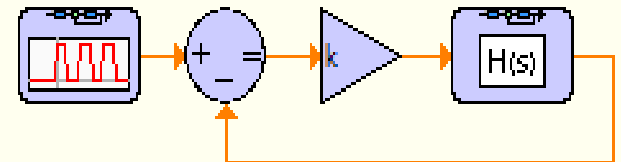
Re-use **.m scripts** that you developed in MathWorks Inc. MATLAB[®] or GNU Octave

```
1 A = [0 1; -2 -4];  
2 eigs = eig(A);  
3 detA = det(A);
```

Control Design & Simulation Module

Move beyond PID for **advanced control** and dynamic system simulation

Model your system with the included **System Identification Toolkit**



MATLAB[®] is a registered trademark of The MathWorks, Inc..

Vision Development Module includes Powerful IP

Proven Image Technology

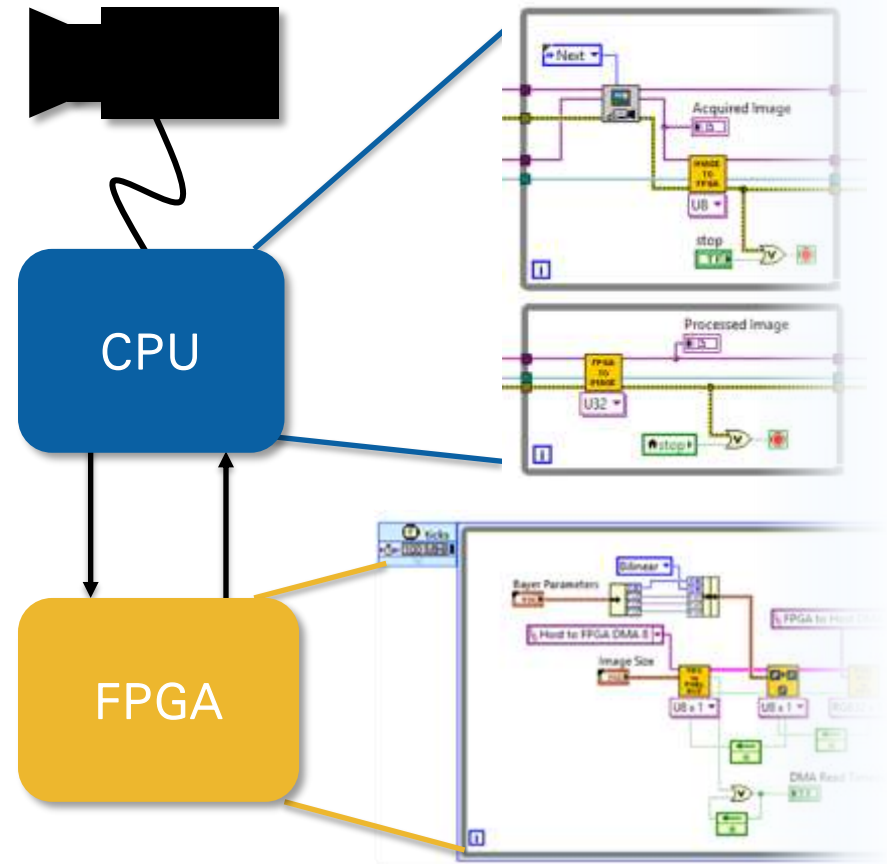
Leverage over **50 FPGA image processing functions** to design high performance vision systems and pass images between CPU and FPGA

Improved Usability

Prototype and generate code using **Vision Assistant** to design high performance vision systems

Find Data Easier

Automatically search an entire image for **1D Barcodes** and perform decoding



Demonstration time

- ✓ Error Handling Dialog
- ✓ Automatic Shift Register Creation
- ✓ Replace Case Structure Tunnel with Selector
- ✓ Auto-Wire Quick Drop Shortcut
- ✓ Data Plugins
- ✓ Reviewing and Updating Type Definitions
- ✓ High Resolution Relative Seconds
- ✓ Get or Set Version Information for a Build Specification



Data Dashboard for LabVIEW 2.2

Alternate Servers

Now you can set up one dashboard to monitor multiple targets and use the drop down menu to switch where the data is streaming from while the dashboard is running

Android Tablets

Data Dashboard on Android tablets now supports monitor and control applications and free canvas customizations.



Multi-Plot

Data Dashboard now supports 2D array of numerics as a datatype for charts and graphs.

Transparency

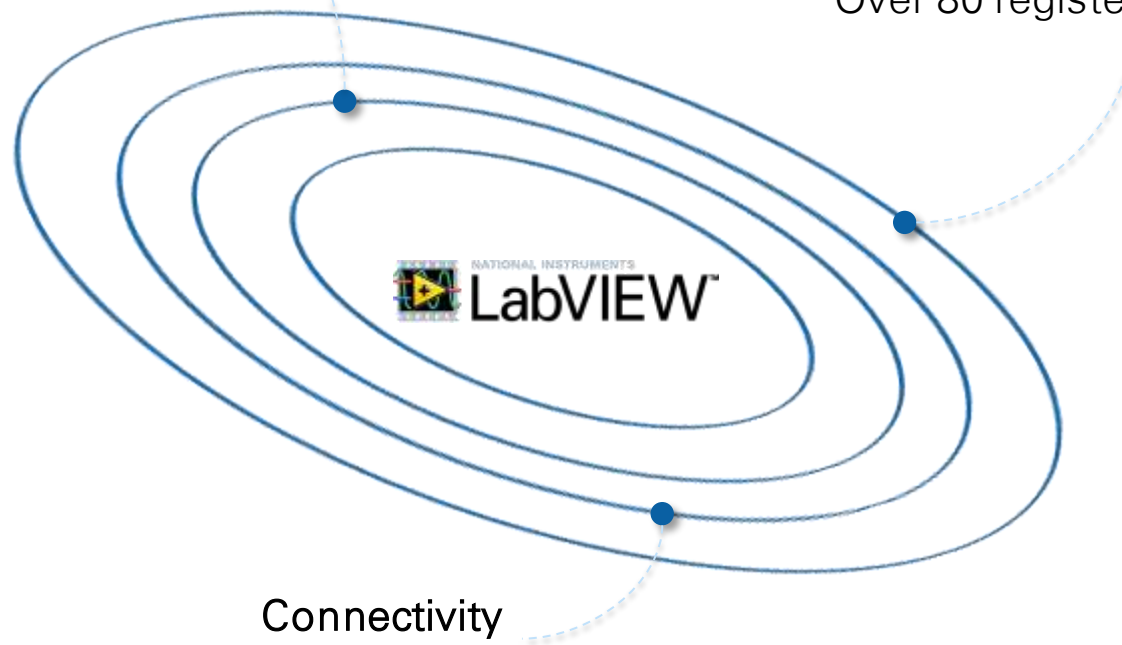
Adjust the transparency of images, controls, and indicators on your dashboard

Growing LabVIEW Ecosystem

LabVIEW Tools Network
3,000,000 add-ons downloaded
Over 250 add-ons

User Community

Over 10,000 certified users
Over 800 alliance partners
Over 80 registered user groups



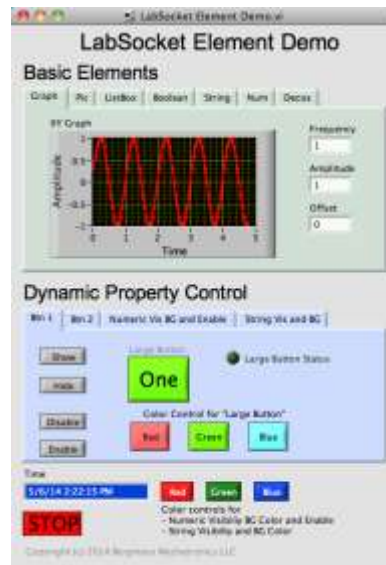
Connectivity
Over 10,000 instrument drivers
Any bus, any protocol, any platform
Integration with third-party languages

LabSocket by Bergmans Mechatronics

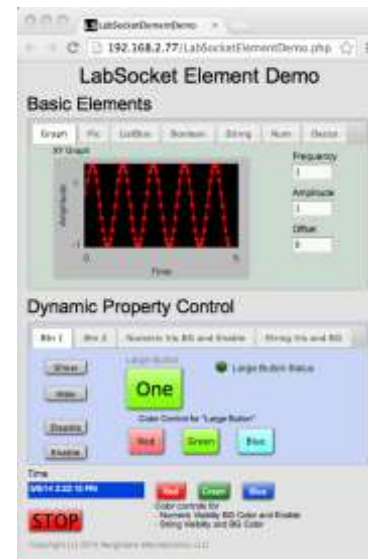
LabVIEW
TOOLS NETWORK

New on the LabVIEW Tools Network

- Automatically creates interactive HTML5 interfaces from LabVIEW front panels
- Access on any modern mobile or desktop browser



LabVIEW



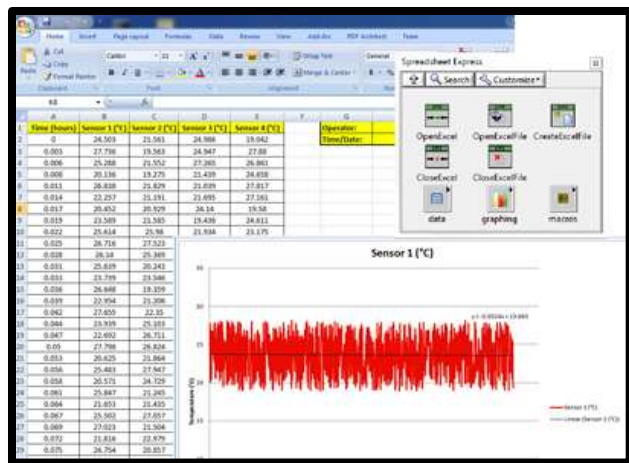
Web Browser

Download evaluation at ni.com/labviewtools/labsocket

Spreadsheet Toolkits

New on the LabVIEW Tools Network

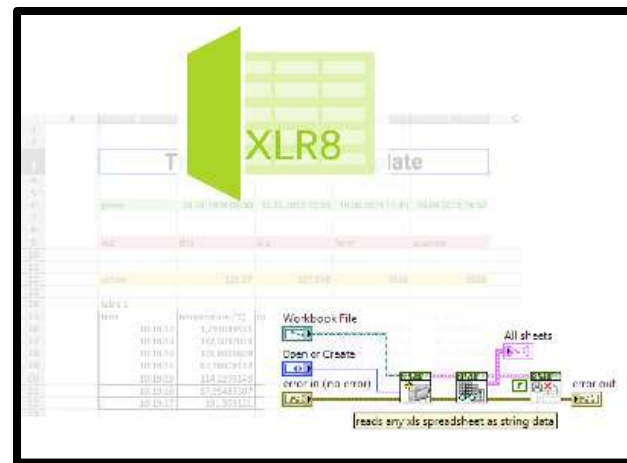
LabVIEW
TOOLS NETWORK



Spreadsheet Express
by Aledyne Engineering

Automate advanced Excel data
processing and charting

Download evaluation at:
ni.com/labviewtools/spreadsheetexpress



XLR8
by DATA AHEAD

Read and write .xls files without
the need for Excel

Download evaluation at:
ni.com/labviewtools/xlr8

Accelerate Growth through Certifications

Certified LabVIEW Architect (CLA)

Certified LabVIEW Developer (CLD)

Certified LabVIEW Associate Developer (CLAD)

Certified LabVIEW Embedded Systems Developer (CLED)

New Certified LabVIEW Embedded Systems Developer (CLED)

Recertification point system for qualified activities

ni.com/cled

Certification Duration Changes

Certification	Old Policy (Years)	New Policy (Years)
Associate Developer	2	2
Developer	2	3
Architect	2	4
CLED	-	5

Approved Activities

Instructor Led Training Related Rewards Activity	Points for Teaching	Points for Attending	Validity Check
LabVIEW Core 1	5	N/A	Training enrollment or teaching record
LabVIEW Core 2	5	N/A	
LabVIEW Core 3	15	10	
LabVIEW Performance	10	5	
LabVIEW Connectivity	10	5	
Advanced Architectures in LabVIEW	15	10	
Managing Software Engineering in LabVIEW	10	5	
Object Oriented Programming in LabVIEW	10	5	
TestStand 1: Test Development	5	N/A	
TestStand 2: Framework Development	10	5	
LabWindows/CVI Core 1	5	N/A	
LabWindows/CVI Core 2	5	N/A	
LabVIEW RT-1	10	5	
LabVIEW RT-2	15	10	
LabVIEW FPGA	10	10	
LabVIEW FPGA	10	10	
RIO Integrator training	N/A	10	

Approved Activities

NI events	Points for Presenting	Points for Attending	Validity Check
NI-Week	30	20	Email from NI Organizer
Developer Days	20	10	
NI-Days	20	10	
NI-Sponsored user group meeting	10	5	
NI-Sponsored Certification Summit	30	20	
Develop certification exam content	Points		Validity Check
CLAD multiple-choice question	3		NI Certification approval
CLD-R multiple-choice question	5		
CLA-R multiple-choice question	5		
CLED multiple-choice question	5		
CLD or CLA scenarios	30		
CLED scenarios	30		
CTD multiple-choice question	5		
CTA multiple-choice question	5		
CCVID multiple-choice question	5		
CCVID scenarios	30		
Involvement with NI	Points		Validity Check
Technical papers for publication on ni.com	25		Email from NI Sponsor
Beta testing releases (product, training etc)	25		
Organizing NI user group meetings (per meeting)	5		
Organizing NI yearly summit	30		
Mentoring 3 CLADs to certify or recertify	30		Email from mentor and candidate on passing the exam
Mentoring 1 CLD, CLED, CLA to certify or recertify	30		

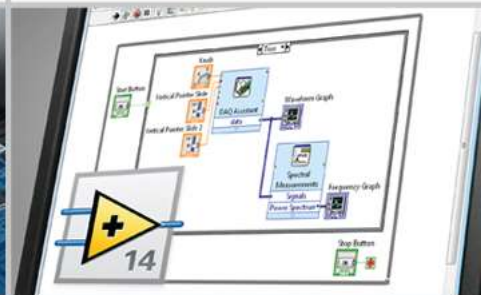
Accurate Data Acquisition With
the Latest Technology



Extended Deployment Options
for Built-in Analysis Routines



13 Coding Productivity
Enhancing Features

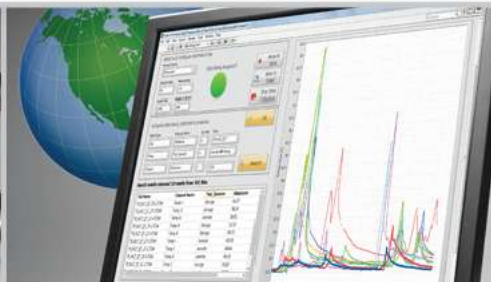


LabVIEW™ 2014

Acquire, analyze, and visualize any data set to make
informed decisions fast.



Expanded Interface Development
and Deployment Options



Global Solutions to Mine
and Search Data



Innovate With a
Community