LabVIEW Anwender Treffen

Was ist neu in LabVIEW 2014

Marcel Krenz

http://www.fhi-berlin.mpg.de/pc/labview

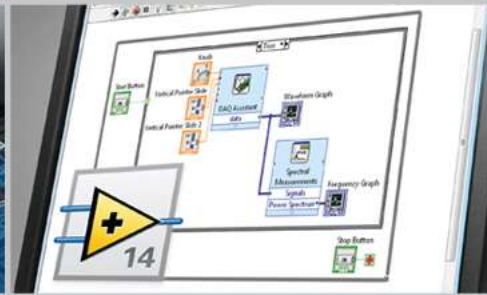06.11.2014

Fritz-Haber Institute, Berlin

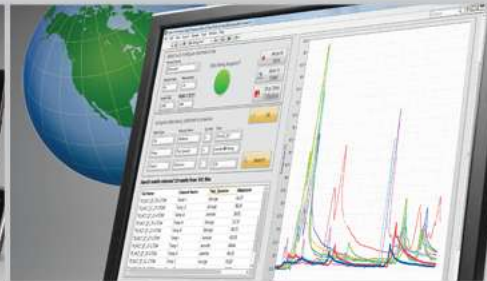| Accurate Data Acquisition With the Latest Technology | Extended Deployment Options for Built-In Analysis Routines | 13 Coding Productivity Enhancing Features |

LabVIEW™ 2014

Acquire, analyze, and visualize any data set to make informed decisions fast.
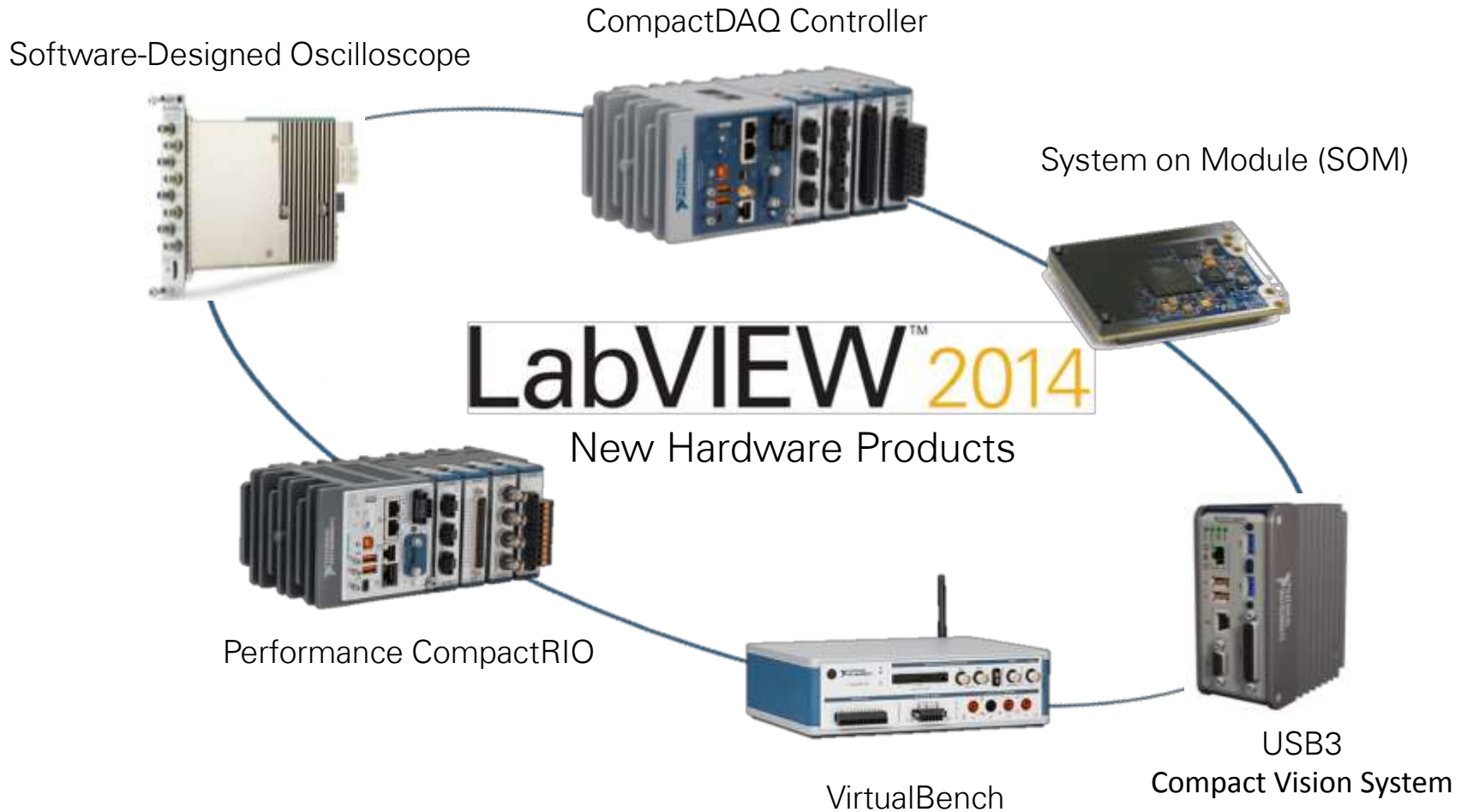
| Expanded Interface Development and Deployment Options | Global Solutions to Mine and Search Data | Innovate With a Community |

NATIONAL INSTRUMENTS

Unrivaled Integration With the Latest Technology

Software-Designed Oscilloscope

CompactDAQ Controller

System on Module (SOM)

LabVIEW™ 2014

New Hardware Products

Performance CompactRIO

VirtualBench

USB3
Compact Vision System

NATIONAL INSTRUMENTS

Simplified Connection to Real-Time Targets

Connect With USB

New NI Linux Real-Time targets use Ethernet over USB to connect to the host computer
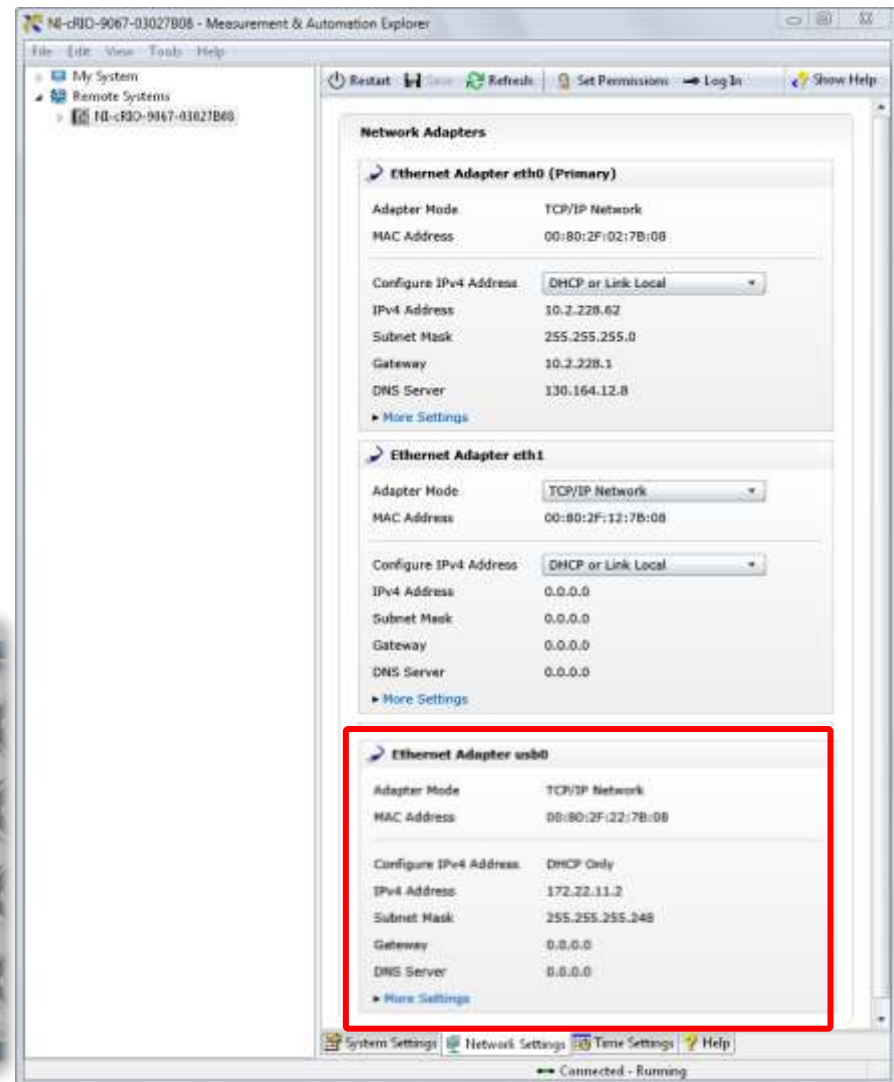
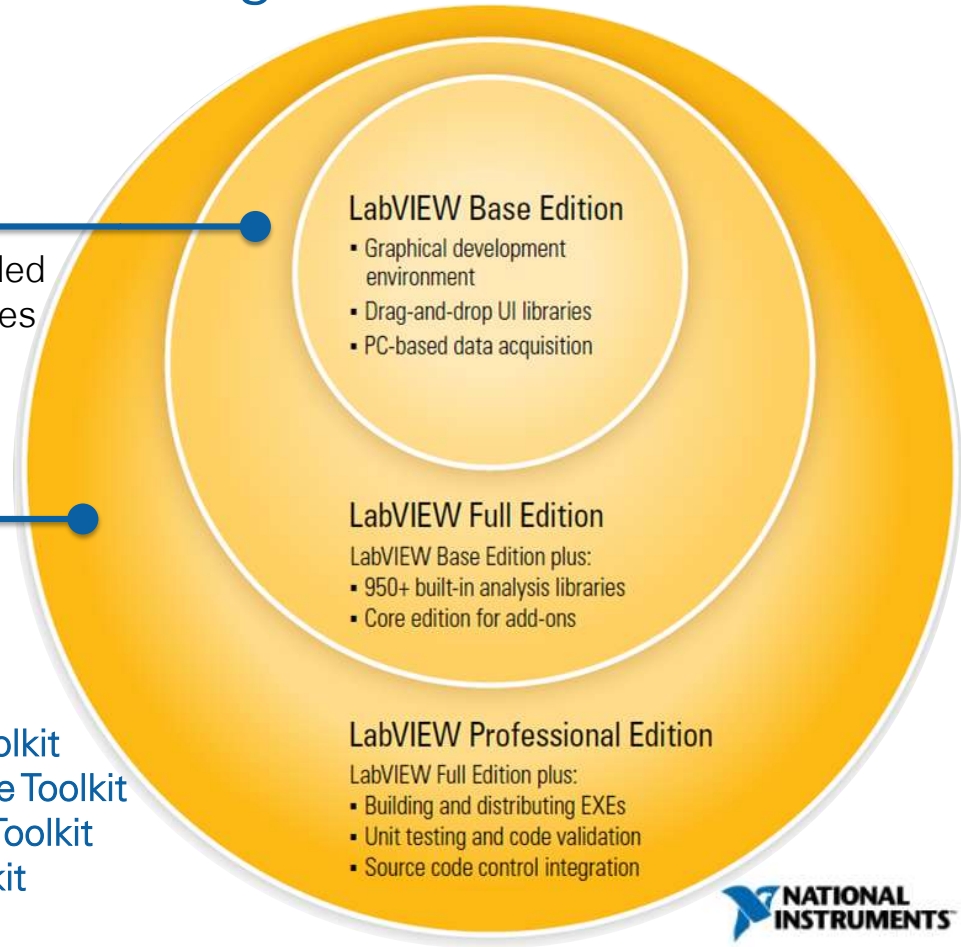# Value Added to Existing LabVIEW Editions

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

LabVIEW Base Edition
- Graphical development environment
- Drag-and-drop UI libraries
- PC-based data acquisition

LabVIEW Full Edition
LabVIEW Base Edition plus:
- 950+ built-in analysis libraries
- Core edition for add-ons

LabVIEW Professional Edition
LabVIEW Full Edition plus:
- Building and distributing EXEs
- Unit testing and code validation
- Source code control integration

NATIONAL INSTRUMENTS

New Taskbar Icon

- Easily differentiate between LabVIEW versions
- **Suggested by 500+ [Idea Exchange](#) kudos**

NATIONAL INSTRUMENTS

New Taskbar Icon

32-bit

64-bit

NATIONAL INSTRUMENTS

LabVIEW™ 2014

What's New in LabVIEW 2014

Kellis Garrett Wiseman

NI Field Sales Engineer

NATIONAL INSTRUMENTS

Troubleshoot Faster With Guided Error Debugging

Embedded resource links

1. Error Dialog

Why do I get Error 43 when using the Open/Create/Replace File VI?

Primary Software: LabVIEW Development Systems>>LabVIEW Professional Development System
Primary Software Version: 8.2
Primary Software Fixed Version: N/A
Secondary Software: LabVIEW Development Systems>>LabVIEW Full Development System

Problem:
When I use the Open/Create/Replace File VI, I have the option to select a file path or cancel the operation. If I choose **Cancel** I get the
error, `Error 43 occurred at Open/Create/Replace File in [VI Name]`.

2. Search Result

3. Solution

error 43 ___ Search ___ Search Tips
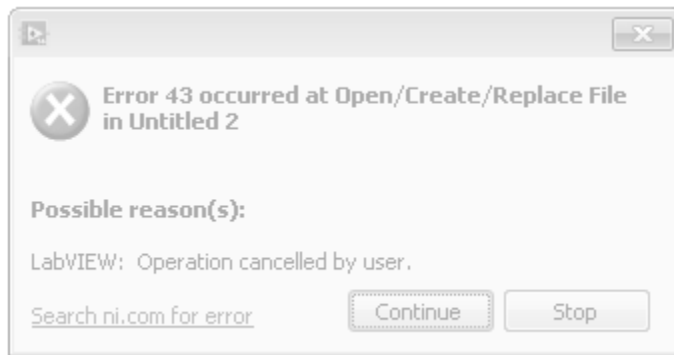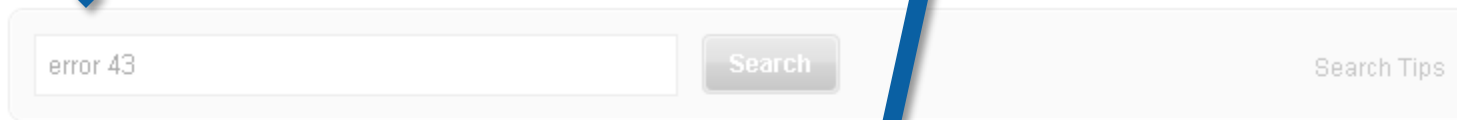
1-10 of **3,564** Show 10 20 30 results per page

1 2 3 4 5 6 7 8 9 10 Next ▶

Why do I get Error 43 when using the Open/Create/Replace File.vi?

I get Error 43 when using the Open/Create/Replace File.vi? Primary Software: LabVIEW Development Systems>>LabVIEW...
following error, ...

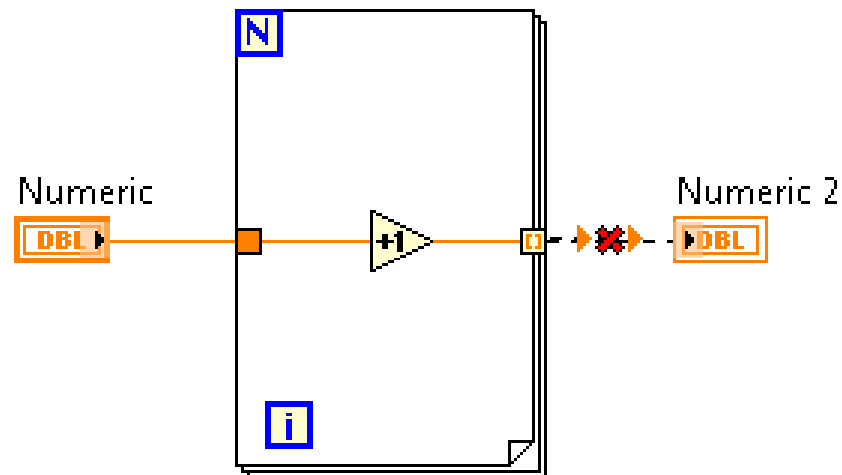digital.ni.com/public.nsf/allkb/E78D4D60B08E4CCE86257297005BB706
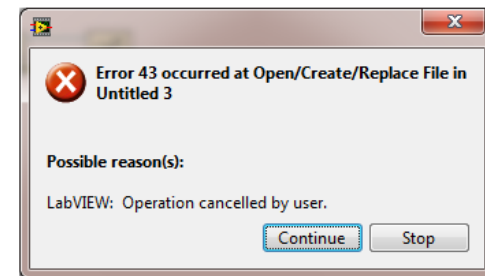
NATIONAL INSTRUMENTS

Time-Saving Development Tools

Automatic shift register creation

- For Loops output arrays by default

LabVIEW 2013

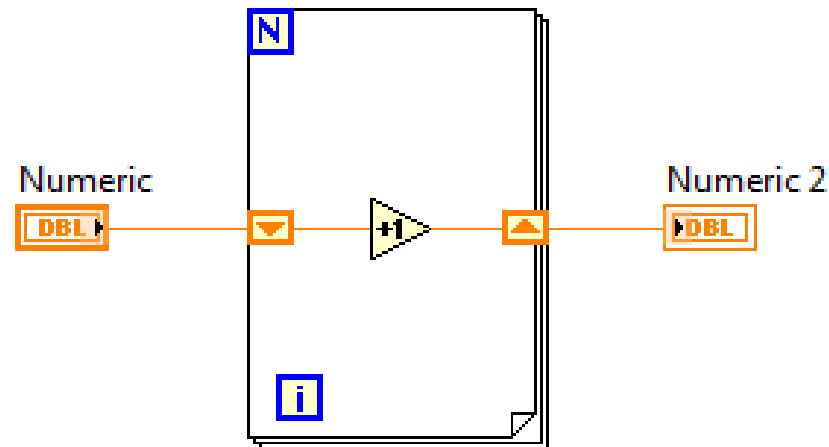# Time-Saving Development Tools
Automatic shift register creation

- For Loops output arrays by default
- Context-sensitive to wired outputs
- Shift register creation matches logical flow

LabVIEW 2014

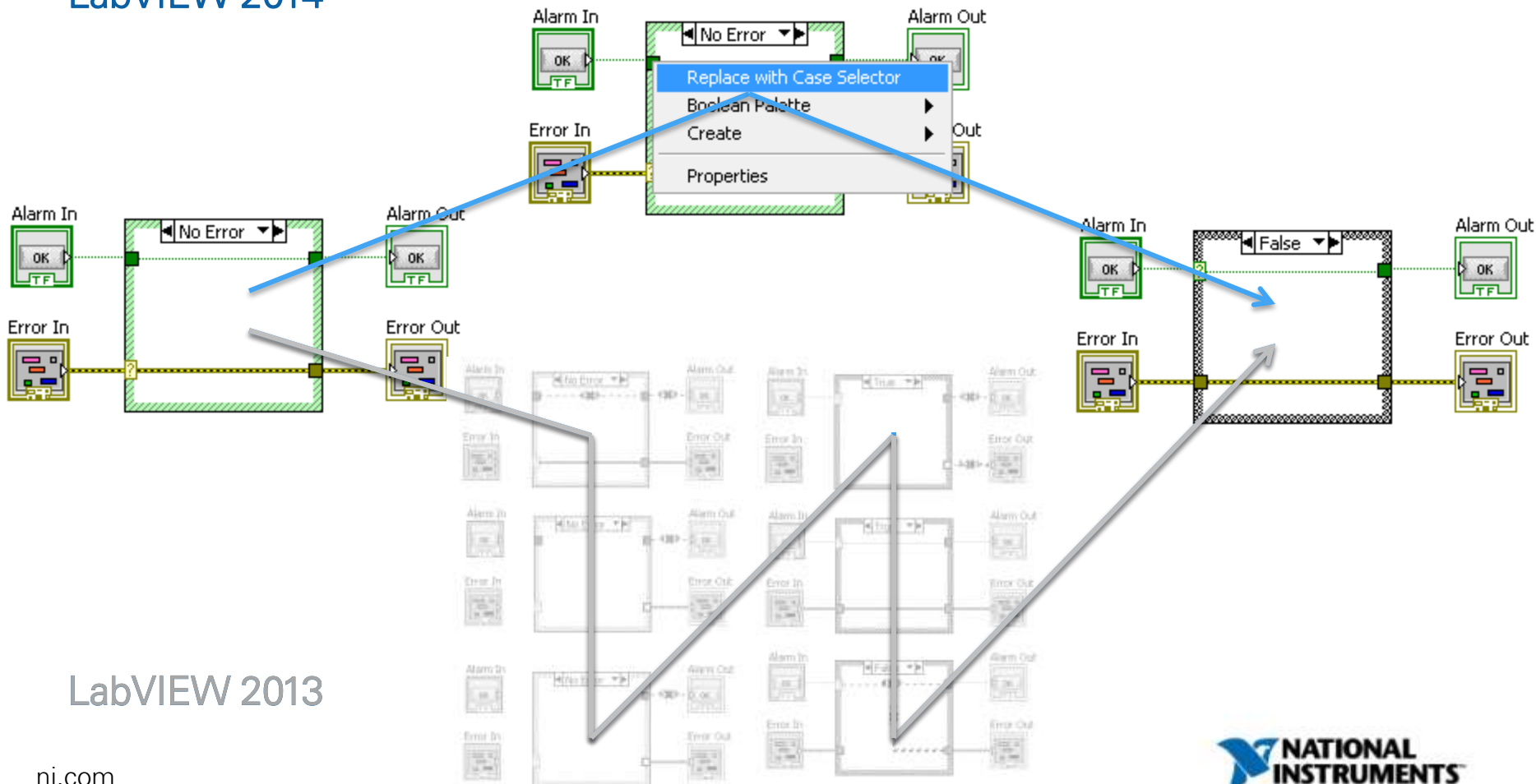NATIONAL INSTRUMENTS

Time-Saving Development Tools
Replace case structure tunnel with selector
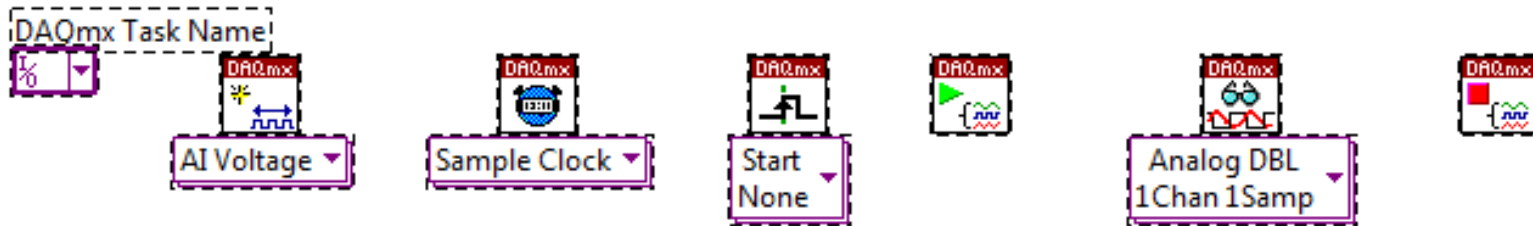
LabVIEW Idea Exchange

LabVIEW 2014

Replace with Case Selector
Boolean Palette
Create
Properties

LabVIEW 2013

ni.com

NATIONAL INSTRUMENTS

Time-Saving Development Tools

Auto-Wire Quick Drop shortcut

<Ctrl-Space>

<Ctrl-W>

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

Multiplot
Data Dashboard now supports 2D array of numerics as a data type for charts and graphs

Android Tablets
Data Dashboard on Android tablets now supports monitoring and control applications and free canvas customizations

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

ni.com

LabVIEW 2014 Real-Time With Embedded UI

Simplify system complexity by implementing a local HMI on CompactRIO
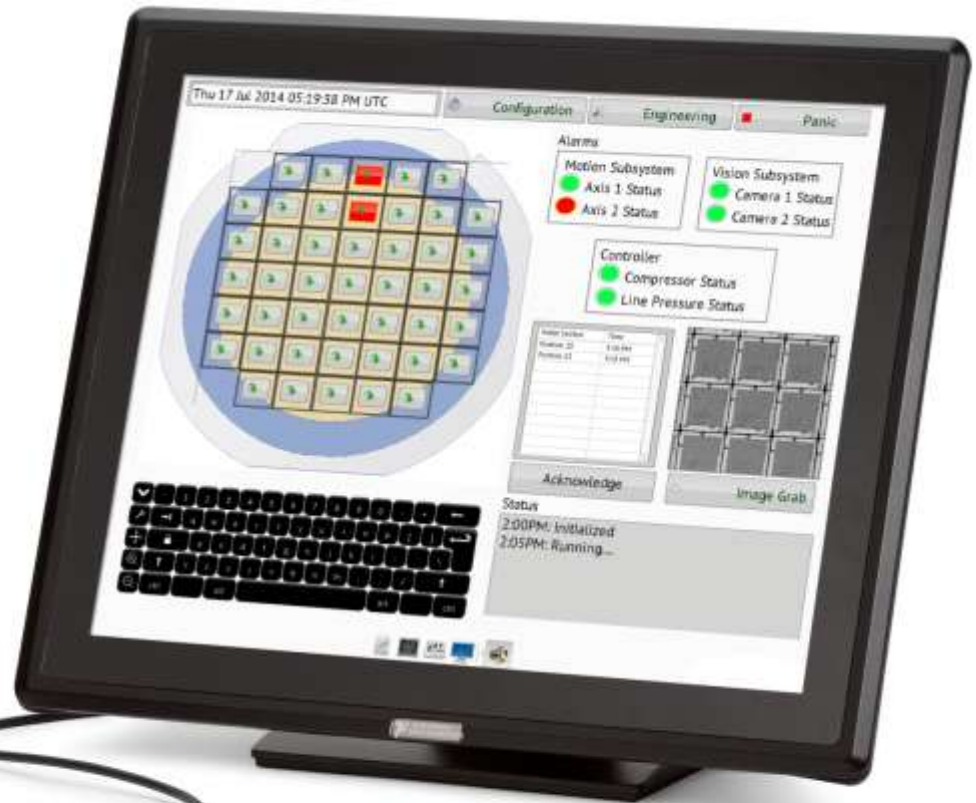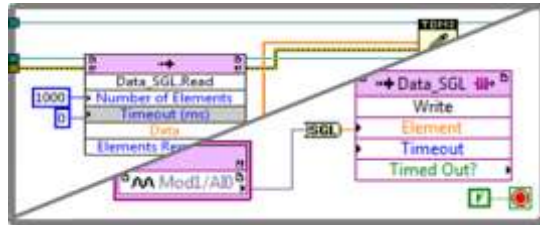
Growing LabVIEW Ecosystem

LabVIEW Tools Network
3 million add-ons downloaded
Over 250 add-ons

User Community
Over 10,000 certified users
Over 800 Alliance Partners
Over 80 registered user groups

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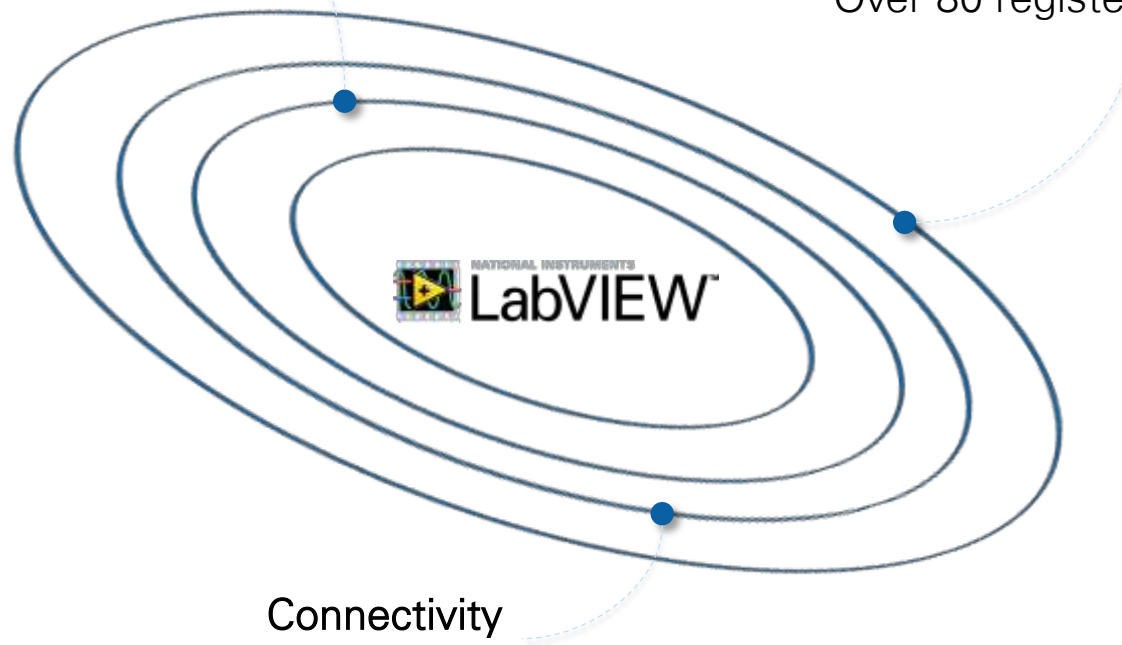
Connectivity
Over 10,000 instrument drivers
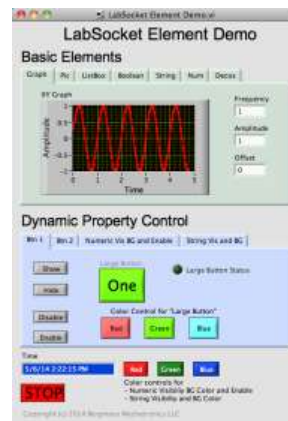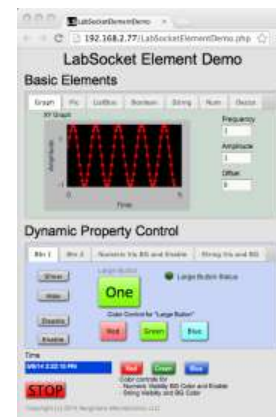Any bus, any protocol, any platform
Integration with third-party languages

NATIONAL INSTRUMENTS

LabSocket by Bergmans Mechatronics
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

ni.com

http://labsocket.com

Das war nur eine
Auswahl an
Änderungen,
Die vollständige
Liste befindet sich
auf:

http://zone.ni.com/reference/de-XX/help/371361L-0113/lvupgrade/labview_features/