



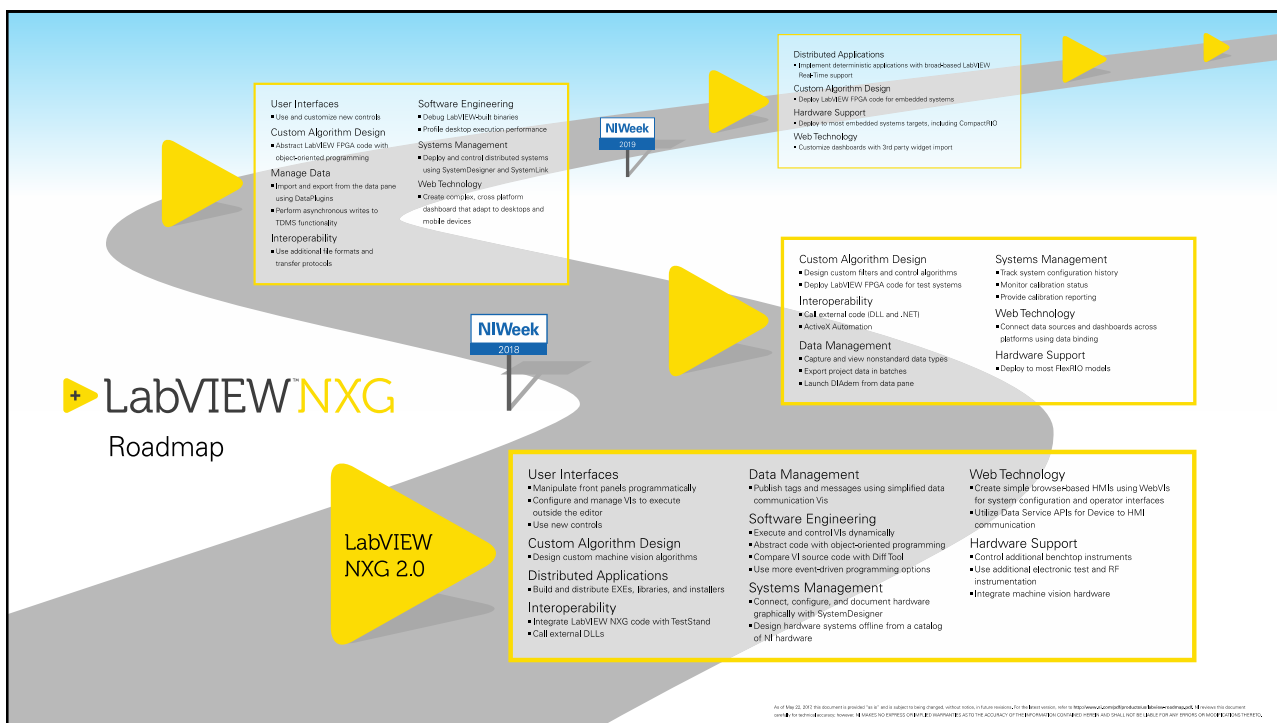
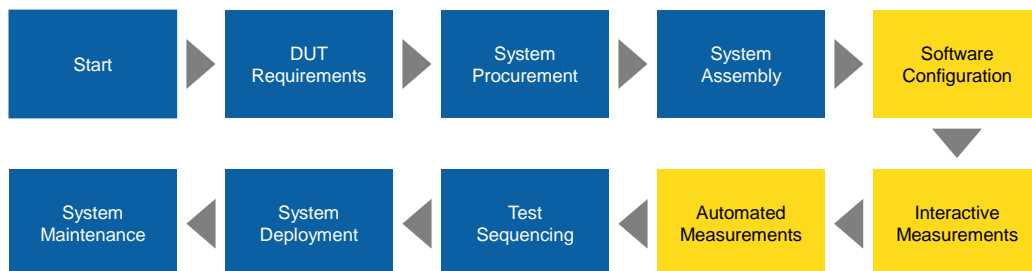
7 Essential Features of LabVIEW NXG 2.0

To Accelerate Automated Test System Development and Deployment

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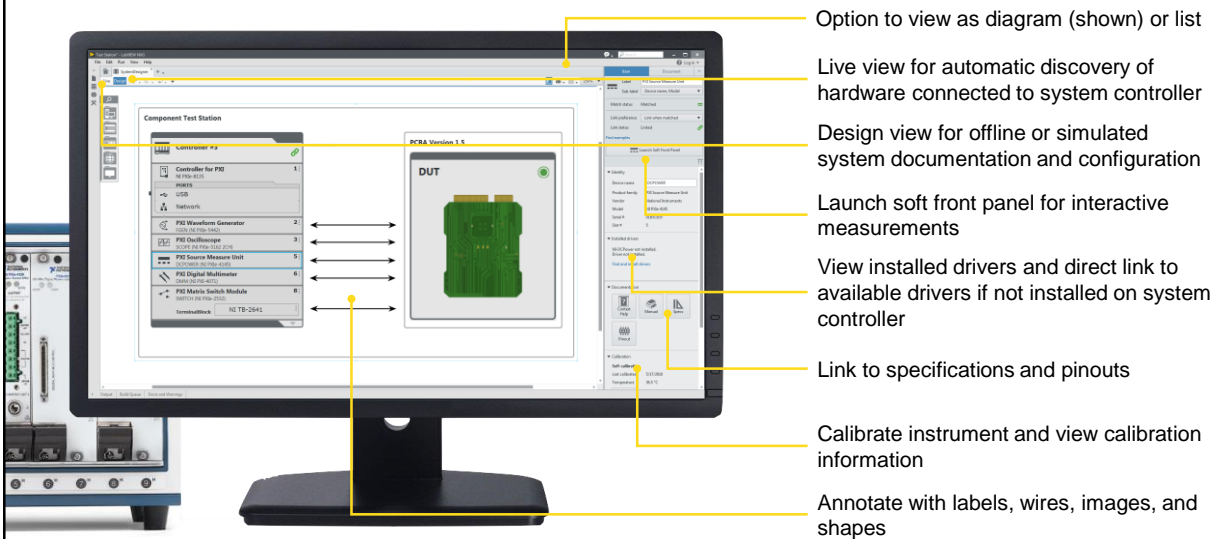
LabVIEW[™] NXG 2.0

Experience the next generation of configuring and automating measurements

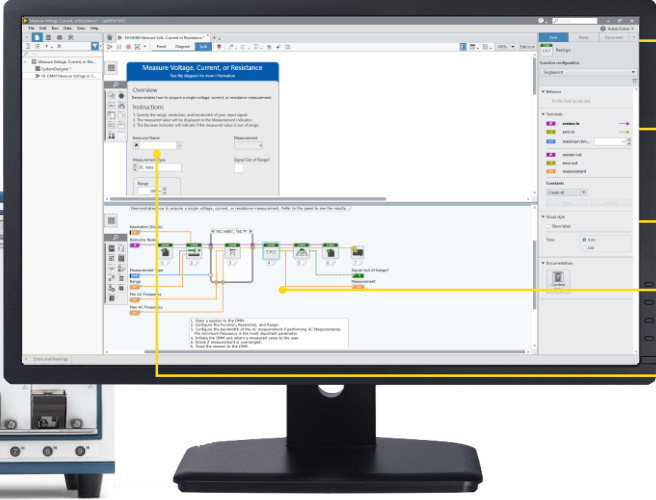
1. Discover and Document Instrumentation
2. Start from Guided, Instrument-Specific Examples
3. Reuse Tests and Functions
4. Design User Interfaces
5. Explore Engineering Data
6. Build Scalable Libraries and Deployments
7. View Results from Anywhere



1. Discover and Document Instrumentation



2. Start from Guided, Instrument-Specific Examples



Dedicated learning portal for tutorials and example programs

Browse to specific example programs by task or by instrument type

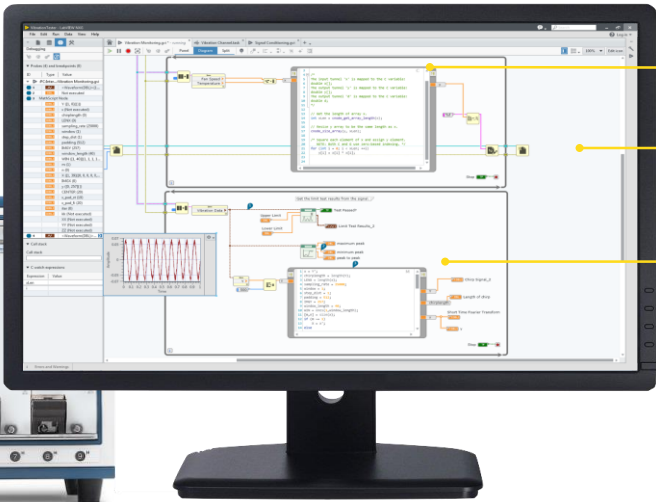
Each example focuses on specific measurement type or function

Complete, well documented diagram

Clean, elegant user interface

NATIONAL INSTRUMENTS

3. Reuse Tests and Functions



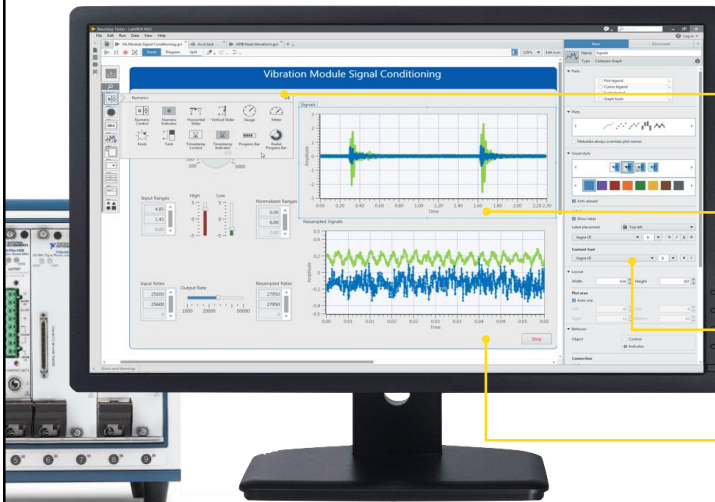
Reuse functions written in the C programming language with C Node

Call Dynamic Link Libraries (DLLs)

Reuse functions written in MathScript programming language with MathScript node

NATIONAL INSTRUMENTS

4. Design User Interfaces



Drag and drop from hundreds of engineering-specific user interface objects

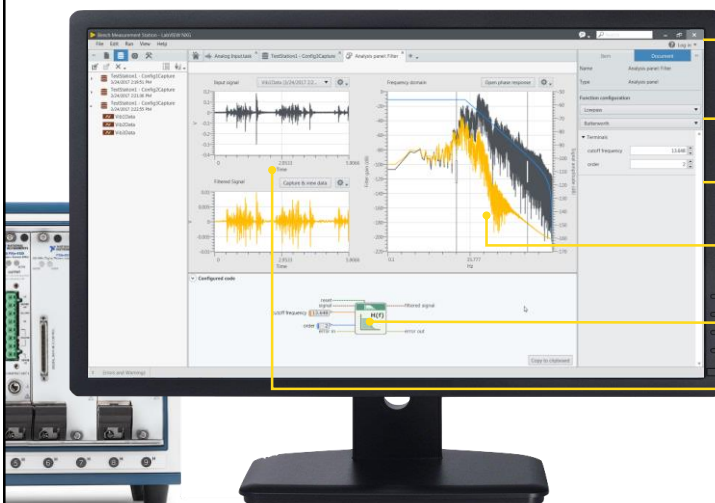
Dynamic guides, snap to grid, distribute, reorder, and alignment

Modify visual style: theme, font, size, colors, labels, and more

Containers and decorations for organization and instructions



5. Explore Engineering Data



Right-click to capture and save data to project files and then open in data viewer

Zoom and pan to focus on particular areas of interest for a signal

Apply various signal processing algorithms

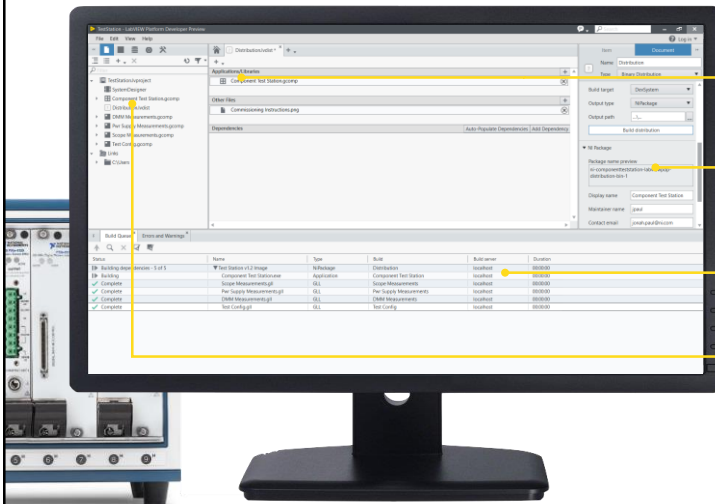
Real-time editing of analysis parameters

Dynamically created analysis VI for in-line signal processing on LabVIEW NXG diagram

Original and filtered signals



6. Build Scalable Libraries and System Deployments



Remove editable source code to protect intellectual property and prevent changes

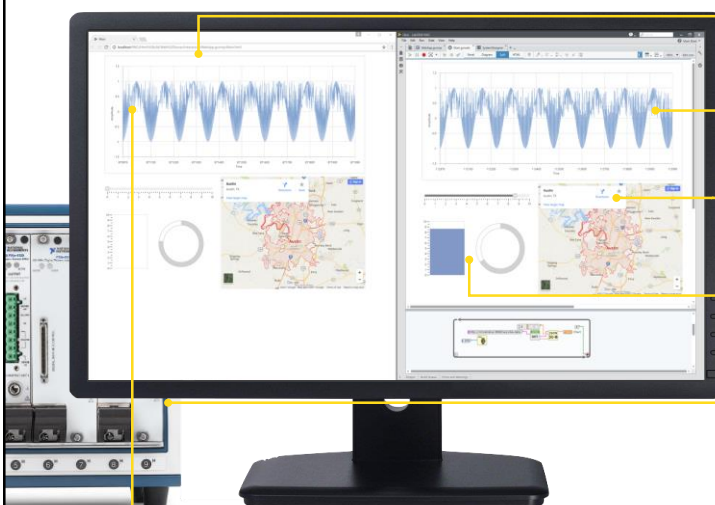
Efficiently build and share modular applications and libraries to simplify application management

Build and deploy web client applications

Create stand-alone applications and libraries for distribution and deployment



7. View Results from Anywhere



Intuitively develop (just like authoring a VI) Web-Based HMIs that can run in any Web Browser without plugins, downloads or installs

Create Desktop and Mobile UIs for configuration, control and monitoring of remote Test systems

Extend HMIs/UIs with HTML content (PDFs, videos) for documentation.

Aggregate and present test results, parameters, measurement data with powerful data visualizations (Data Grids, Charts, support for large data sets, high precision data etc.)

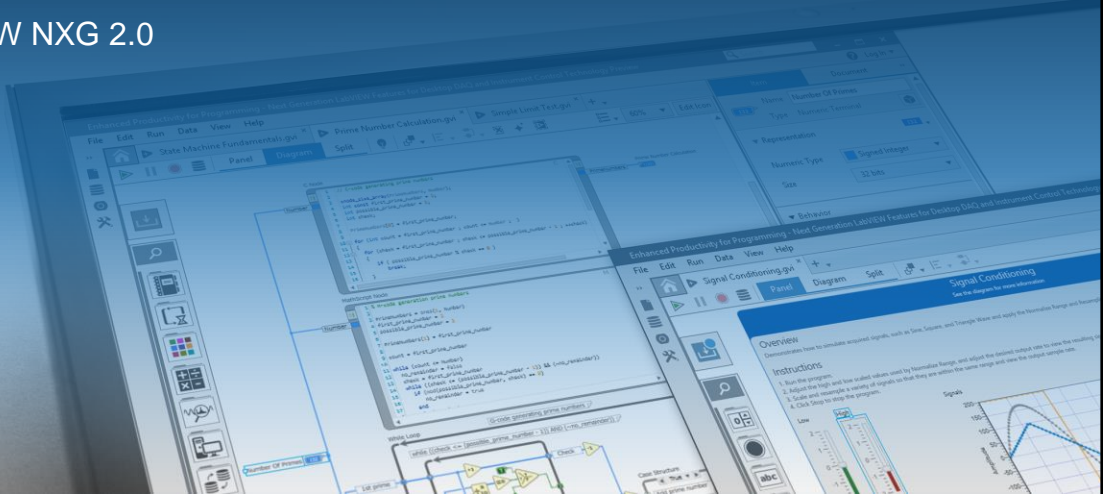
Seamlessly integrate with SystemLink to provide secure, managed remote access to multiple Test/Masurement systems

Create engineering views that can be embedded into professionally-made, customer/stakeholder facing dashboards



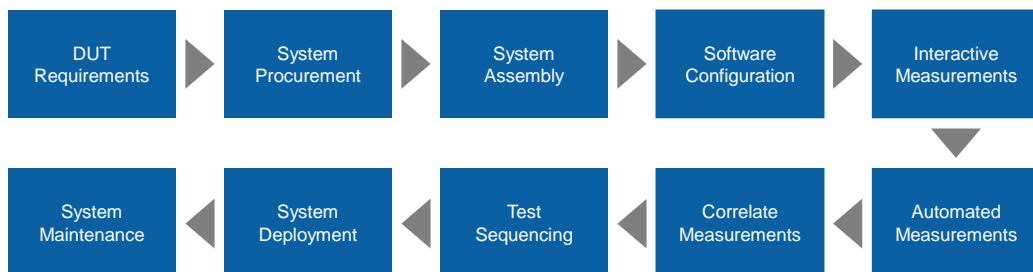
Technical Demonstration

LabVIEW NXG 2.0



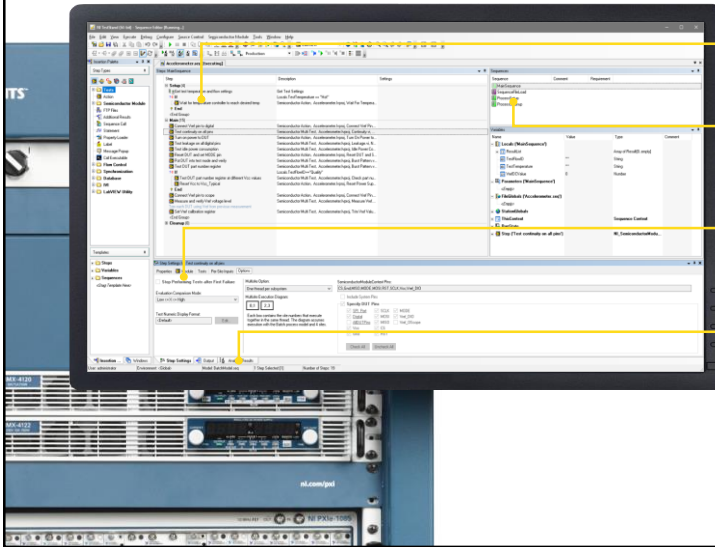
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Trusted Advisor for Building Automated Test Systems



TestStand

Industry-Standard Test Management Software



Create test sequences that automate the execution of code modules written in any programming language

Reduce test time with parallel test and dynamic resource management

Each code module executes a test on the device under test and returns measurement information to TestStand

Log test result information in a report or database automatically

SystemLink

Systems Management Software

Features at a glance

- Device Management—track connection state, system settings, calibration data, and system diagnostics
- Software Deployment—mass deploy software with component-level updates, dependency awareness, and version history
- Data Services—use LabVIEW APIs to automate data communications from remote hardware to a central database

Application areas

- Automated Device Validation
- Physical Systems Test
- Semiconductor Device Test
- HIL Testing
- Embedded Control
- Monitoring

