

Test Workflow Roadmap – 2023 Q1

The sections below show NI investments in a variety of technologies across the software included in the Test Workflow bundle. Access the latest improvements with an active subscription.

LabVIEW

| Capability | Upcoming 1-2 Releases | Future Development |
|--|-----------------------|--------------------|
| Project Management | | |
| Improvements to workflows with source code control tools | ✓ | ✓ |
| Improved LabVIEW Project Dependency Management | ✓ | ✓ |
| Improvements to the speed of building applications | ✓ | |
| Additional capabilities when building package installers | | ✓ |
| Driver version independence from LabVIEW | Completed | |
| Interoperability | | |
| Deploy Python scripts to NI Linux RT devices | | ✓ |
| Native gRPC server/client interfaces in LabVIEW | ✓ | ✓ |
| Support for calling .NET Core Assemblies (.NET 5 or later) | | ✓ |
| Call Python code running in virtual environments | Completed | |
| Better integration with MATLAB® | Completed | |
| System Support | | |
| Support for MacOS on Apple M1 devices | ✓ | |
| Data Communication additions (SSH API, IPv6 support) | | ✓ |
| UI Improvements | | |
| Support for Unicode in the IDE | | ✓ |
| Introducing Data Grid Control | | ✓ |



TestStand

| Capability | Upcoming 1-2 Releases | Future Development |
|--|--------------------------|-----------------------|
| Interoperability | | |
| Python: Improve performance of enumerations, support Anaconda distribution and virtual environments | ✓ | |
| Python: Pass default values and variable number of arguments, support PyCharm IDE for debugging Python code, improve performance when passing large set of function parameters | | ✓ |
| New TestStand gRPC-based API to remotely control TestStand from Python, C#, JavaScript, and other languages | ✓ | |
| Support calling .NET Core Assemblies | | ✓ |
| Integration with DataStudio – Specification Compliance Manager | ✓ | |
| Python: Namespace and relative import support, better integration for class hierarchies, reload python step while debugging to uptake code changes | Completed | |
| Performance | | |
| Better build times for steps using source-only VIs | ✓ | |
| System Support | | |
| Support for Windows 11 | ✓ | |
| Support for Linux Distro | | ✓ |
| Improved User Management: Leverage SSO, Active Directory, OpenID Connect and others | | ✓ |
| UI Improvements | | |
| Updated Fonts & Themes: Dark Mode | | ✓ |
| Custom Web Interface Support, New UI controls built on modern web technology | | ✓ |
| Support for UTF-8 | | ✓ |



DIAdem

| Capability | Upcoming 1-2 Releases | Future Development |
|--|--------------------------|-----------------------|
| Interoperability | | |
| Continued DIAdem object support in Python | ✓ | |
| SLE: Research on an integrated SLE Client | ✓ | |
| REPORT: PDF Export with hyperlinks to direct URL | | ✓ |
| Ongoing Python support | ✓ | |
| Python 3.10 Support | | Completed |
| Python defined user commands | | Completed |
| Improve Python code snippets in DIAdem help | | Completed |
| UI Improvements | | |
| VIEW: Easier synchronization of video with absolute timeline | ✓ | |
| VIEW: If "New Layout" is selected, a template should be loaded as in module REPORT | ✓ | |
| REPORT - New function group for 3D and contour plot to the group bar | | Completed |
| NAVIGATOR - Programmatically show/hide the file system tree in My DataFinder | | Completed |

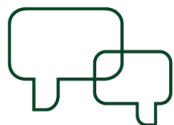


FlexLogger

| Capability | Upcoming 1-2 Releases | Future Development |
|---|--------------------------|-----------------------|
| Interoperability | | |
| Add string channels using LabVIEW plugins | ✓ | |
| Build FlexLogger plugins using LabVIEW 2023 | ✓ | |
| Automatically publish files to SystemLink once a connection is restored | ✓ | |
| FlexLogger Data and File Management in the Cloud | | Completed |
| Build FlexLogger plugins using LabVIEW 2022 | | Completed |
| Hardware Support | | |
| Enable hardware-timed digital channels with M series modules | ✓ | |
| Enable slow sample rates with onboard counters | ✓ | |
| Workflow Improvements | | |
| Burst logging: automatically reduce the logged data rate outside of trigger windows | ✓ | |
| Notifications: receive notifications of status and test events via email, SMS, or sound | | ✓ |
| Event response: automatically respond to status and test events using Python | | ✓ |
| FlexLogger companion software: Fast, out-of-box software for measurement and logging | | ✓ |
| Graph live data with microsecond precision | | ✓ |
| Visualize alarms on FlexLogger screens | | ✓ |
| Copy-paste formula channels | | Completed |
| Hide unconfigured channels | | Completed |
| Graph live data using relative timestamps | | Completed |

InstrumentStudio

| Capability | Upcoming 1-2 Releases | Future Development |
|--|--------------------------|-----------------------|
| New Instrument Support | | |
| RFmx S-Parameter measurement workflows | ✓ | |
| RFmx Pulse measurement support | ✓ | |
| SMU panel support for Electronic Loads (Heatwave) | | ✓ |
| Support for new variants of PXIe-4162, PXIe-4163 (10 pA sensitivity) | Completed | |
| Support for new variant of PXIe-4190 (500 kHz stimulus) | Completed | |
| User Experience Improvements | | |
| Undo/redo functionality for panel properties | | ✓ |
| Localization | | ✓ |
| Launch plugins from command line | Completed | |
| Advanced Capabilities | | |
| Remote Instrument Access for supported RF Instruments | ✓ | |
| Remote Instrument Access for supported Modular Instruments | | ✓ |
| Analysis from file using RFmx soft front panels | Completed | |



We value your opinion.

In this survey, we would like to hear your feedback. You can provide us with feedback on each item in the roadmap, let us know what additional information you'd like to hear, and, optionally, provide us with your contact information to have a more detailed discussion with the product managers.

[Take the survey](#)

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Get to know the Product Managers!

We are happy to share another update of the Test Workflow roadmap with you. Thank you for your engagement and participation in the survey. We enjoyed getting to know you, hearing about your applications, and learning what's important to you! We want to share a little bit about us and the people working on these roadmaps. You can provide your contact information at the [end of the survey](#) if you would like to have a conversation.



Jeff Peacock
LabVIEW Product
Management

- **Time at NI:** 12 years
- **Fun Fact:** My first version of LabVIEW was 7.0
- **Role:** I lead the LabVIEW Product Management team.
- I'm excited by the partnership between NI and JKI and how it will help all LabVIEW users be even more productive using LabVIEW.
- I look forward to discussing LabVIEW roadmaps with you and learning what you look forward to doing with LabVIEW in the future.



Shauna Rae
TestStand Product
Management

- **Time at NI:** 20 years
- **Experience:** I have experience spanning a majority of NI's software.
- **Role:** I currently drive TestStand Product Management.
- I'm excited about the future of test automation and building that for our customers.
- I look forward to discussing TestStand roadmaps with you and working together to build test systems of the future.



Matthew Bollom
Test Workflow Offering
Management

- **Time at NI:** 10 years
- **Experience:** I have experience in customer success and software product management.
- **Role:** I currently own the Test Workflow offering, which combines NI's most popular software products to help with the full job of test – not just developing test systems.
- I'm excited by my continual conversations with users like you to understand your systems and challenges you encounter, and I use findings from these conversations to help guide the roadmap for the NI test experience.