Pinetree

Integrated Algorithm Development Environment

Software for the Product Engineer

Pinetree is an ultra-capable development environment that allows you to easily and seamlessly develop and verify all your high-speed digital and mixed-signal algorithms. Designed for users with widely varying backgrounds and expertise, it offers an extremely intuitive interface simultaneously with infinitely extensible capability. From DC to GHz, from time-domain to frequency-domain, and from digital storage to video broadcast, Pinetree is the ideal development environment for the most specialized product engineering teams.
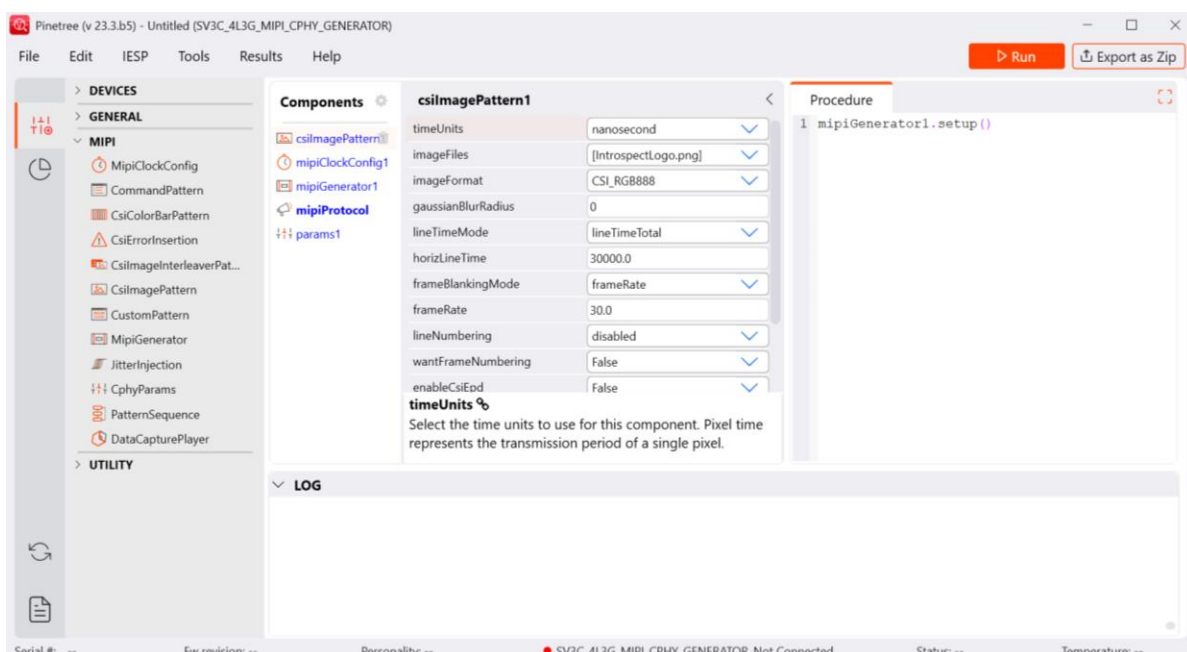
KEY FEATURES:

- **Rapid component class creation:** click and drag Python classes without any programming
- **Quick result access:** view results without leaving the Pinetree Procedure Editor pane
- **Advanced auto-completion editor:** discover all available methods without reading documentation
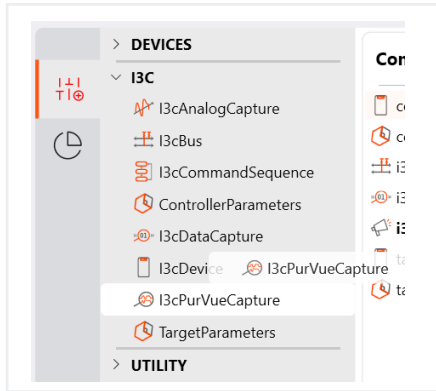
KEY BENEFITS:

- **No software engineering expertise:** protocol-aware functions with specifications-based syntax
- **Advanced automation:** leverage the full power of Python and the Introspect Technology hardware
- **Interoperability:** plug-in with multiple software languages and operating systems platforms

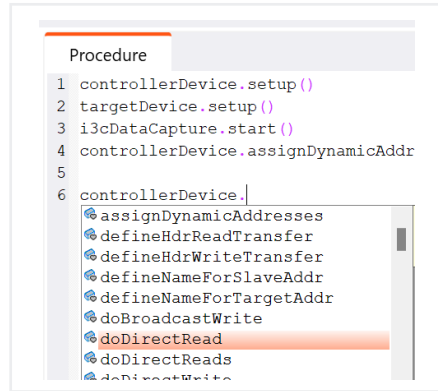## Pinetree Graphical User Interface

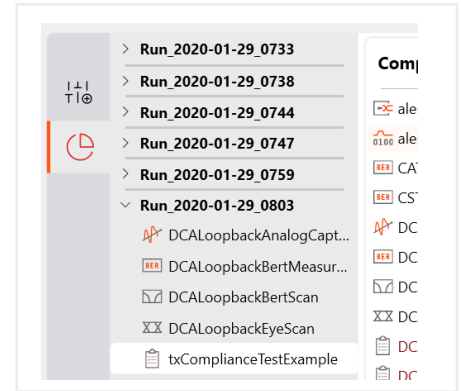## Workflow Features

COMPONENT CREATION

Click and drag components from the Component Creator tray to instantiate them in your Pinetree Procedure

INTELLIGENT EDITING

Discover component methods as you type. Simply enter the component name and instantly receive a list of available methods
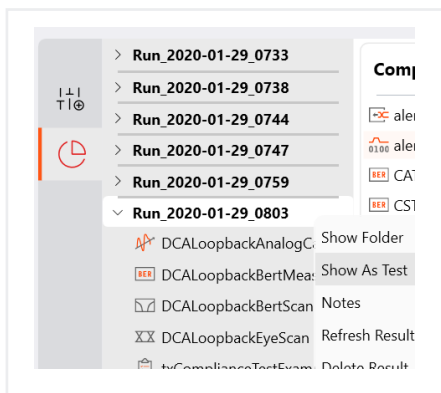
RESULT QUICK ACCESS

Click on the Result Quick Access tray to quickly view the most recent results of executing your Pinetree Procedure
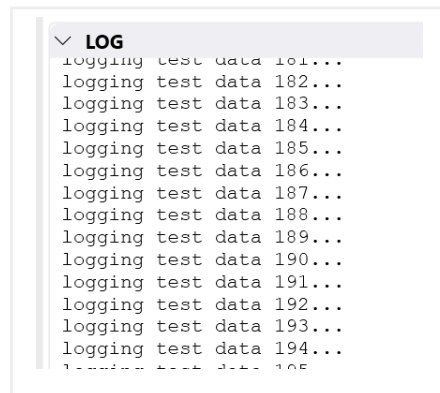
Debugging and Traceability Features
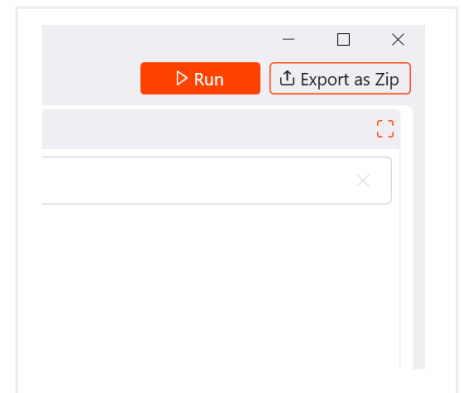
SHOW-AS-TEST

Restore any instrument and device-under-test state even if you have not saved your most recent Pinetree Procedure

INTELLIGENT LOGGING

Activity logging is stored on every execution of a Pinetree Procedure. What's more, you can customize your own logging features
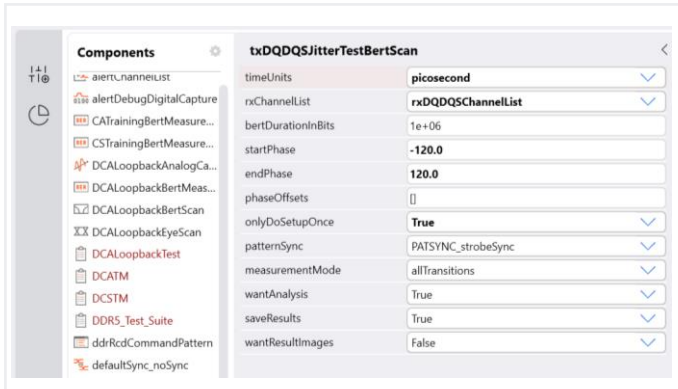
EASY SHARING

With the new Export as Zip button, you can share your entire Pinetree project without needing to locate files in your operating system

Pinetree Procedure Authoring Features
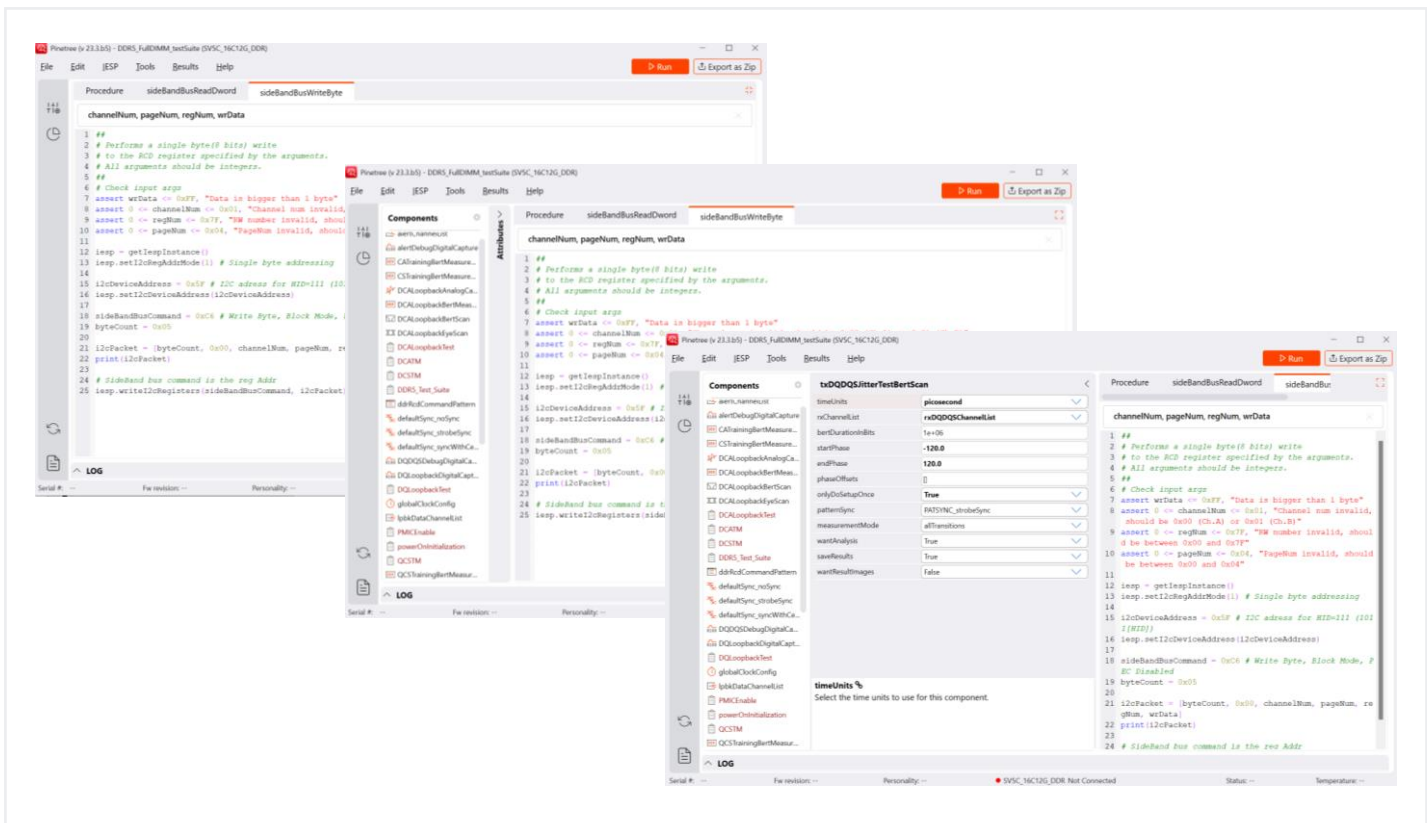
GRAPHICAL ATTRIBUTE EDITOR

For users who do not want to programmatically adjust component attributes, Pinetree enables graphical editing of components and their properties

PROCEDURE EDITOR

The Pinetree Procedure Editor is a full-featured Python interpreter, featuring color coding, automatic indentation and much more

Focus Modes

With focus modes, you can optimize your own work style. You can maximize the Pinetree Procedure Editor and minimize everything else (top left). Or, you can focus on only the editor and instantiated components (middle). Or, you can expand the Attributes Editor to manually manipulate the component properties (bottom right)