2023.1 Software Release Highlights

- **Automatic PDF Report in TyphoonTest IDE**
- **ISO 15118 PnC option – certificates**
- **Package manager**
- **SPI protocol support over GPIO**
- **50 ns resonant converter model**
- **Additional features**
  - Signal View configuration file
  - Quick Insert in Schematic Editor

Typhoon HIL
Control Center
2023.1

Typhoon HIL Control Center

Version 2023.1

Automatic PDF Report in TyphoonTest IDE

Sharing your test reports just got a lot easier

- ☐ Option to create a PDF report alongside your Allure (HTML) report

- ☐ Useful for sharing, storing, or printing report

- ☐ Several options for report customization:
  - ■ Report Title and color
  - ■ Organization logo
  - ■ Include or exclude different report elements: traces, steps, and plots
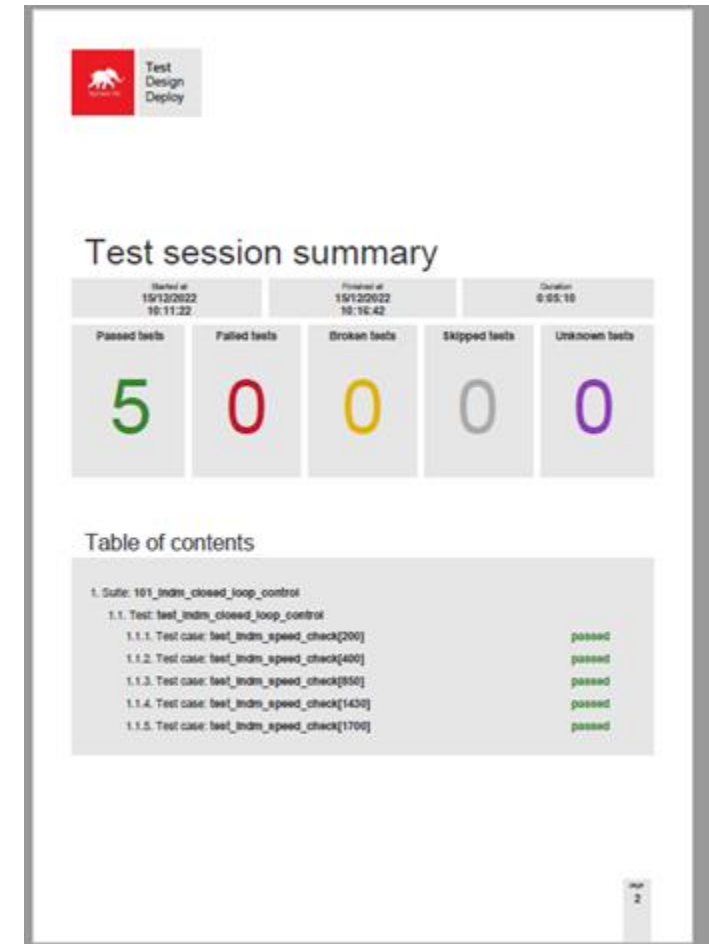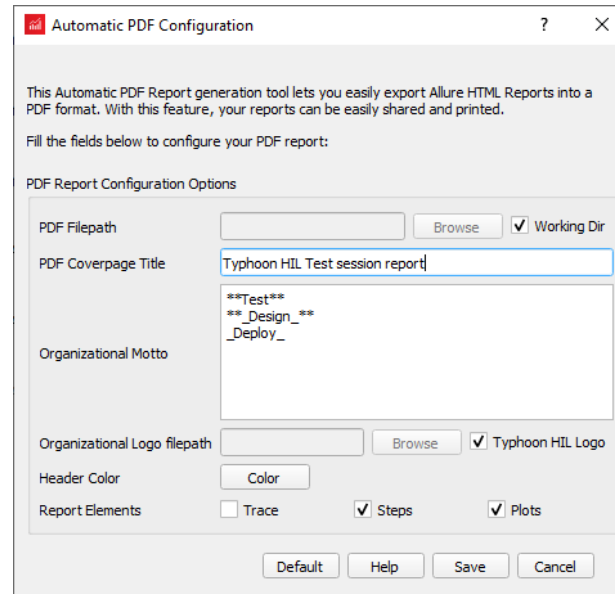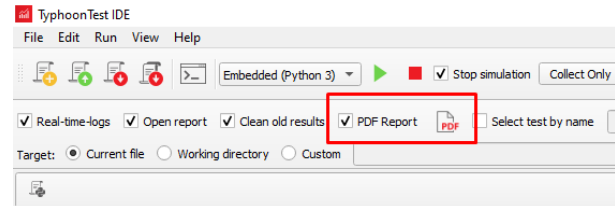
ISO 15118 PnC option - certificates

Test the state of the art in EV charging communication

- ☐ Added support for the Plug & Charge (PnC) feature in ISO 15118-2 EVCC communication

- ☐ PnC allows **secure, automated communication and billing processes** between the EV and the EVSE without the need of any external identification

- ☐ Test secured communication over TLS (Transport Layer Security) using certificates
  - ■ Import your certificates directly to the HIL device via the provided script

Package manager

Manage, version, and share your content from one place

- ☐ New tool available in Typhoon HIL Control Center

- ☐ Easily create, publish, share, and download packages

- ☐ Packages can include:
  - ■ Schematic libraries
  - ■ SCADA libraries
  - ■ Documentation
  - ■ Examples
  - ■ Additional SCADA Python libraries
  - ■ Additional resources

- ☐ Create your own packages that can be versioned and shared safely both within and outside of your organization

Typhoon HIL
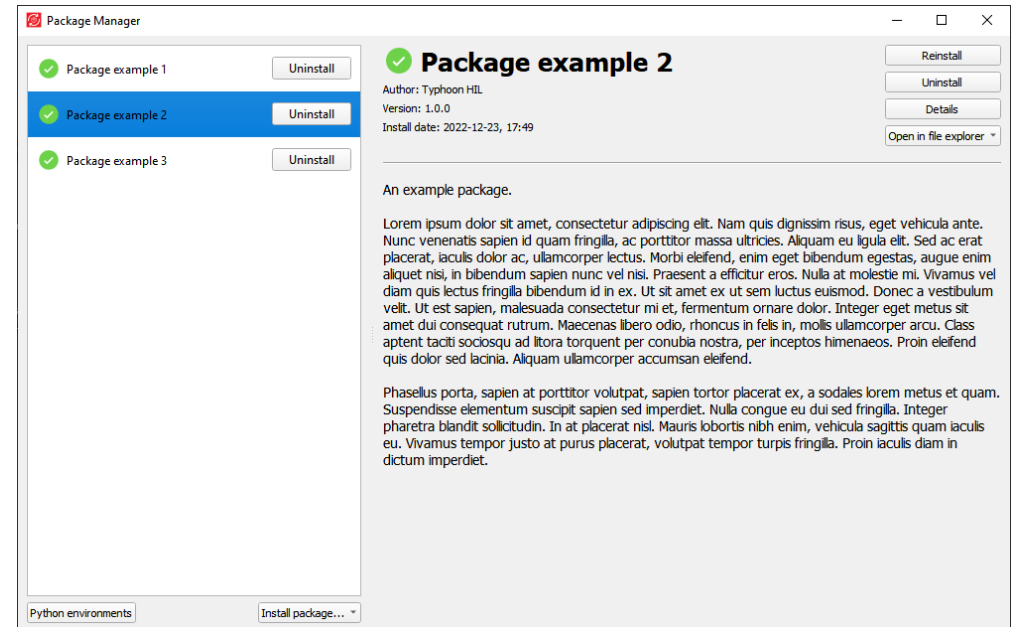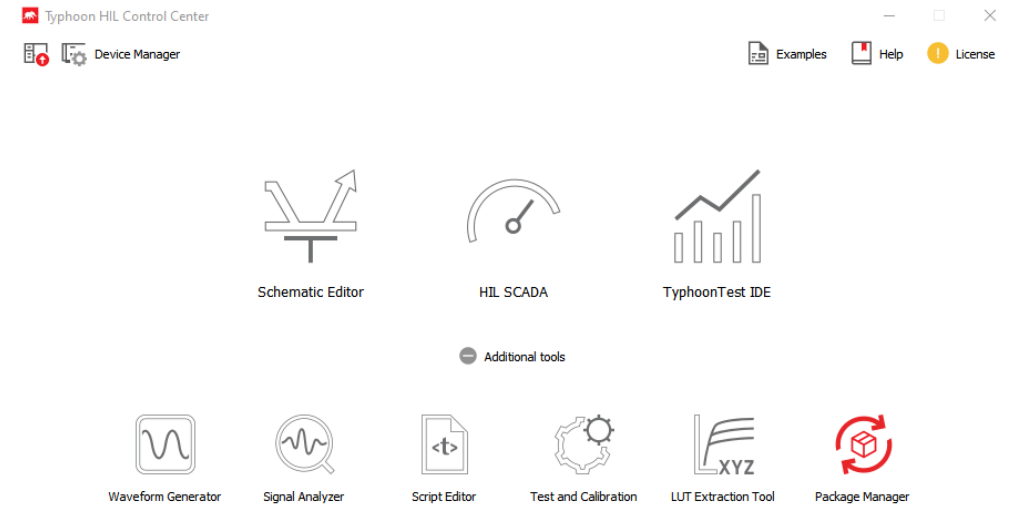
SPI protocol support

New communication protocol supported at the model level

- ☐ New Serial Peripheral Interface communication support available in THCC

- ☐ SPI Slave available on HIL404 and HIL606 devices

- ☐ Protocol interfaced through the GPIO connector

SPI Slave
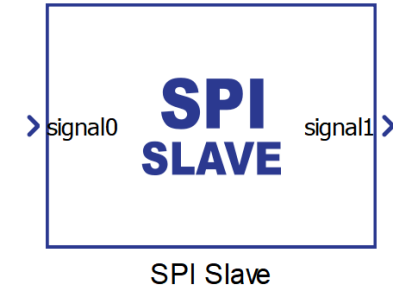
Resonant converter with 50 ns resolution

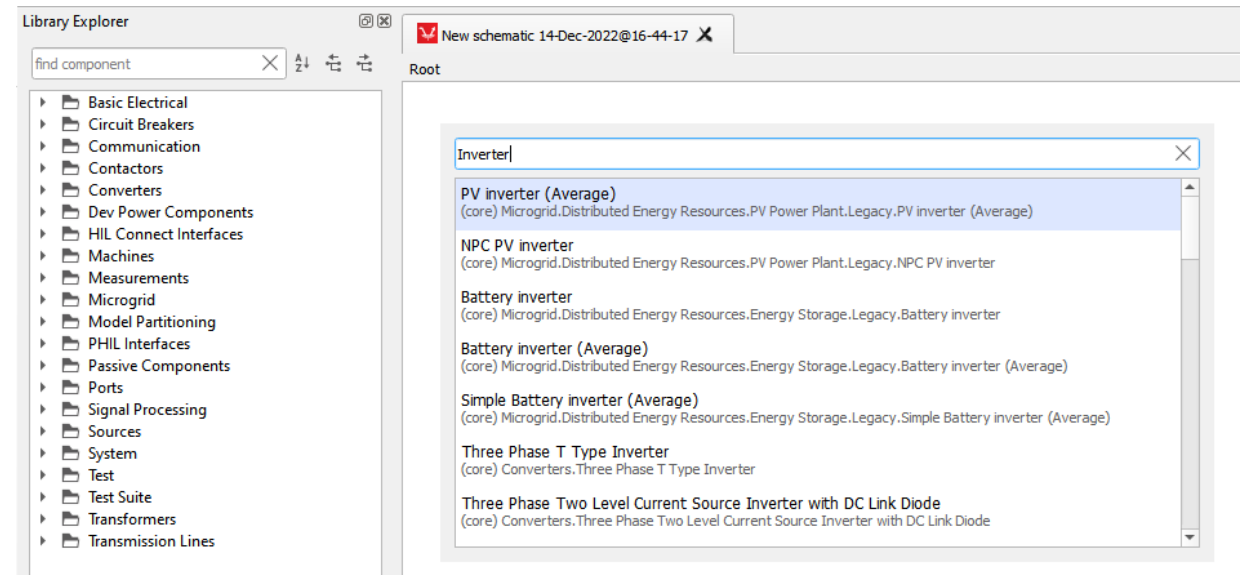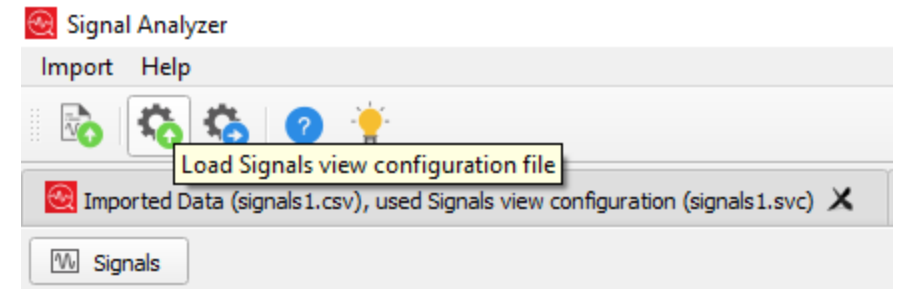Improved capabilities for modeling high-frequency DC-DC chargers

- ☐ Schematic component that provides fast calculation of resonant converter topologies with 50 ns resolution

  - ■ LLC and CLLLC topologies supported

- ☐ Available on 4th generation devices (HIL404 and HIL606)

- ☐ Resonant converter and DAB topology also available on HIL604 with 100 ns resolution

- ☐ Powered by the special DC-DC converter solver resource

- ☐ Specially designed to fulfill the needs of high frequency DC-DC charger applications

CLLLC - 50ns

Resonant Converter
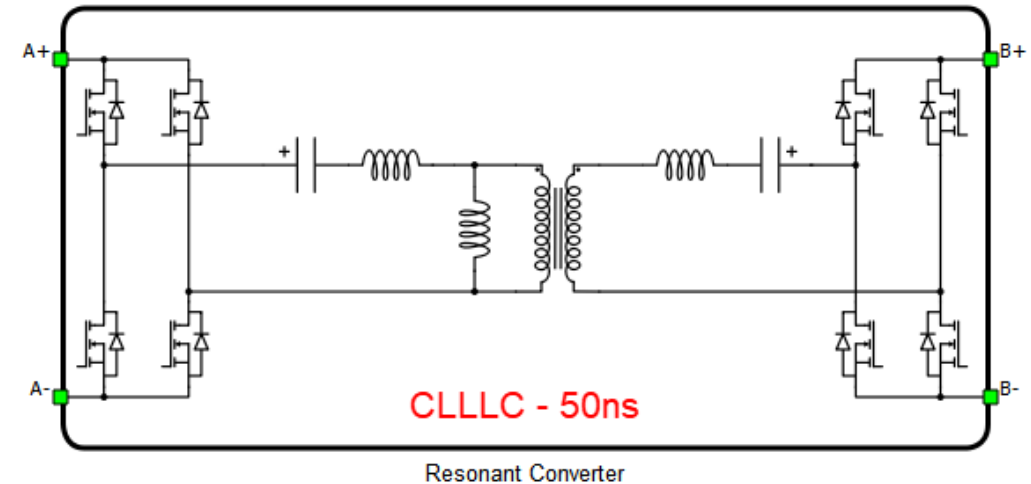
UI improvements

Build, scale, and share your models even faster

☐ Signal View configuration file

    ■ Automatically save exported signal configuration from Capture/Scope and Signal Analyzer in an .svc file

    ■ Easily import viewport layout, signal line color, and signal type settings into your model

☐ Quick Insert in Schematic Editor

    ■ Double-click anywhere on the Schematic Editor canvas to quickly search for and insert components

    ■ Improve modeling productivity

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Learn More

Visit:
https://www.typhoon-hil.com/products/2023-1-software-release

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