

Development Machine

Operating System Requirements

Software	Version	Note
Windows	7, 8, 10	Check VeriStand version release notes for specific OS compatibility

National Instruments Software

The table below lists the National Instruments software dependencies for the OPAL-RT Power Electronics Add-On for NI VeriStand. These dependencies must be installed to the development machine first.

Software	NI License Required	Supported Versions																																								
NI VeriStand	Veristand Development System	2018, 2019, 2020 (all revisions) NI VeriStand and Power Electronics Add-On Version Compatibility <table border="1"><thead><tr><th>Power Electronics Add-on</th><th>1.5.0</th><th>1.6.0</th><th>1.6.1</th><th>1.6.2</th><th>1.7.0</th><th>1.8.0</th><th>1.9.0</th></tr></thead><tbody><tr><td>VeriStand 2017</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>VeriStand 2018</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>VeriStand 2019</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>VeriStand 2020</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> = Supported = Unsupported	Power Electronics Add-on	1.5.0	1.6.0	1.6.1	1.6.2	1.7.0	1.8.0	1.9.0	VeriStand 2017								VeriStand 2018								VeriStand 2019								VeriStand 2020							
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VeriStand 2017																																										
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VeriStand 2019																																										
VeriStand 2020																																										
PXI Platform Services	None	Driver versions must be compatible with the installed version of VeriStand. See Installing VeriStand below for more information.																																								
NI R Series Multifunction RIO	None																																									
NI-DAQmx	None																																									
NI-VISA	None																																									
NI-XNET	None																																									
NI System Configuration	None																																									

Installing VeriStand 2020 or VeriStand 2019 and Drivers

When using the NI Package Manager to install VeriStand 2019 or 2020, compatible driver versions are automatically selected for installation. OPAL-RT recommends launching the VeriStand installation using these steps:

1. Download and install the [NI Package Manager](#).
2. In the **Browse Products** tab, search for *VeriStand* and select **VeriStand and Drivers**.
3. Select the desired VeriStand version and click **Install**.
4. In the **Install VeriStand and Drivers** dialog box, ensure that all drivers listed in the table above have been selected before completing the installation.

Installing VeriStand 2018 and Drivers

[Click here](#) to download a file containing a package installer for VeriStand 2018 and compatible versions of the required NI drivers. Note that it is also possible to download these installers individually from the National Instruments website.

Circuit Editor

The OPAL-RT Power Electronics Add-On for NI VeriStand allows a circuit model designed using standard modeling environments to be imported and simulated on FPGA. See [Supported Circuit Editors](#) for more information. **The following tool is required to use the Add-On.**

Modeling Environment	Version
Simscape Electrical Specialized Power Systems Simulink Blockset	MATLAB 2011b-2019b

Other Required Software

Dependency	Required?	Version	Hyperlink
MATLAB Runtime	Required	R2016b (9.1) (Only)	Download
Java Runtime Environment (JRE)	Required	8+ (1.8.0.151)	Download
Microsoft Excel	Optional (See Scenarios)	17.0+	Download
JMAG-RT	Optional (See PMSM SH)	10.5+	
ANSYS Maxwell	Optional (See PMSM SH)	2016.1+	