



Opal-RT Training: Class and Equipment Requirements

This document is intended to prepare the class / lab in which the Opal-RT training session will be held. Not all the elements of this document may apply to all customers, but conforming to the majority ensures quality training and a better knowledge of Opal-RT's real-time solutions for all attendees at the end of the session.

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www.opal-rt.com

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1. WINDOWS HOST COMPUTER CONFIGURATION

One computer per attendee is the optimal configuration. Maximum of three attendees per computer. Desktop or Laptop configured with the required MATLAB and RT-LAB software.

1.1. MATHWORKS

RT-LAB version 11.x requires a compatible MATLAB versions (**32-bit version**) R2011b, R2012a, R2012b, R2013a, R2014b & R2015aSp1 with the following toolboxes

- Simulink
- Simulink Coder
- Matlab Coder Toolbox (only required if you plan on using MATLAB m-functions)

Note that OPAL-RT cannot provide MATLAB licenses and **only Matlab 32-bit versions are supported** and it has to be installed in the default location (i.e. C:\Program Files (x86)\MATLAB. Note that for Win7 32-bit, the location will still be "C:\Program Files (x86)\MATLAB" not "C:\Program Files\MATLAB".

1.2. OPAL-RT TECHNOLOGIES SOFTWARES

- Latest OPAL-RT software installation on each Windows Computer (DVD installer provided in the shipment):
 - RT-LAB

OP4200 Quick Start Guide:

http://www.opal-rt.com/wp-content/themes/enfold-opal/pdf/L00161_0519.pdf



2. MATERIAL REQUIREMENTS

2.1. MATERIAL TO BE PROVIDED BY THE CUSTOMER::

- All material provided by Opal-RT at delivery (everything that's in the delivered box(es))
 - Power cords for host and target computers
 - Ethernet cables
 - Switch or router if multiple Windows hosts are to be connected to the target Computer
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3. TRAINING ROOM REQUIREMENTS

- The network must be set in order to connect all the host computer to the target computer(s). They all need to be in the same network domain, using an Ethernet switch or router to communicate. The IP address of the simulator can be found in your System Integration Documentation.
- Enabling/accessing administrative rights on the host Computers will facilitate the software installation once onsite.

(If not possible, be prepared to configure the host PCs (add exceptions in the Firewall for MetaController.exe, RT-LAB.exe, Controller.exe, Python.exe, ProbeControl.exe, etc.... and open ports 1700 and 2002). See <http://www.opal-rt.com/KMP/index.php?/article/AA-00283> for details.)

- Based on previous visits, one Windows host computer per 2-3 students is acceptable. One per student is ideal.

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