



This guide is designed to help you get the Tofino up and running as quickly and easily as possible.

## Belden Sub-Header

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## Featured Brands



## Connecting the Tofino into the Network

When connecting the Tofino to the network place the unsecure (backbone) network connection into the NET 1 port. Place the secure (machine) network connection into the NET 2 port. By default the Tofino is in test mode and will not disrupt communications over the network. In Test mode the device also generates alarm messages for any traffic that would have been blocked if the device was in Operational mode. Test mode is used to test that the device is correctly configured before it is used to filter control system traffic.

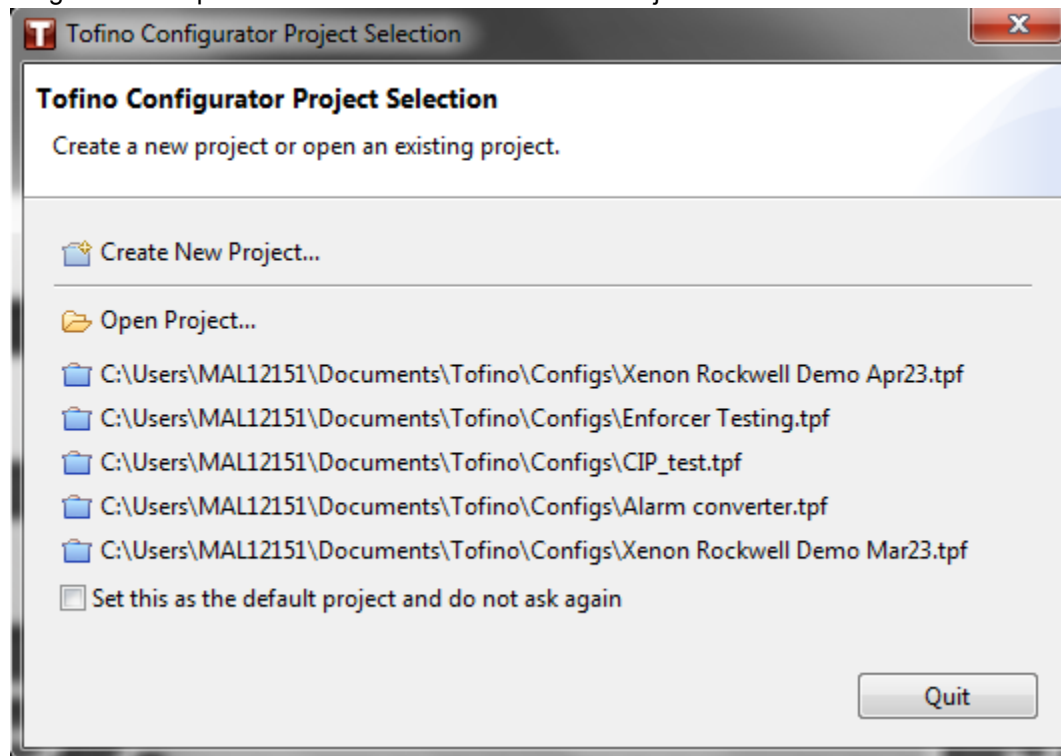
## Creating the Project

Before starting the configuration of the Tofino, the computer being used will need to have the following software installed to assist in the process.

- TC (Tofino Configurator)

The TC software can be downloaded at <ftp://ftp.hirschmann-usa.com/INET-IndustrialNetworking/Software/Tofino%20Configurator> and the License Activation Key for the software will be located on the front of the manual that comes with the Tofino.

To get started open the TC and select Create New Project...



Type a name for the Project and the Company and click Next.

**New Project Wizard**  
Create a new project.

Project Name: Quick Start Guide

Company: Belden

< Back   Next >   Finish   Cancel

If you choose to check the License Activation Key box you will only be able to open the Project with the TC used to create the Project. If you check the Password box you will need a password to open the Project. Click Next when the correct protection is selected.

**New Project**

### Project Protection

Specify the project protection settings.

The new project will be protected by:

- License Activation Key
- Password

Password:

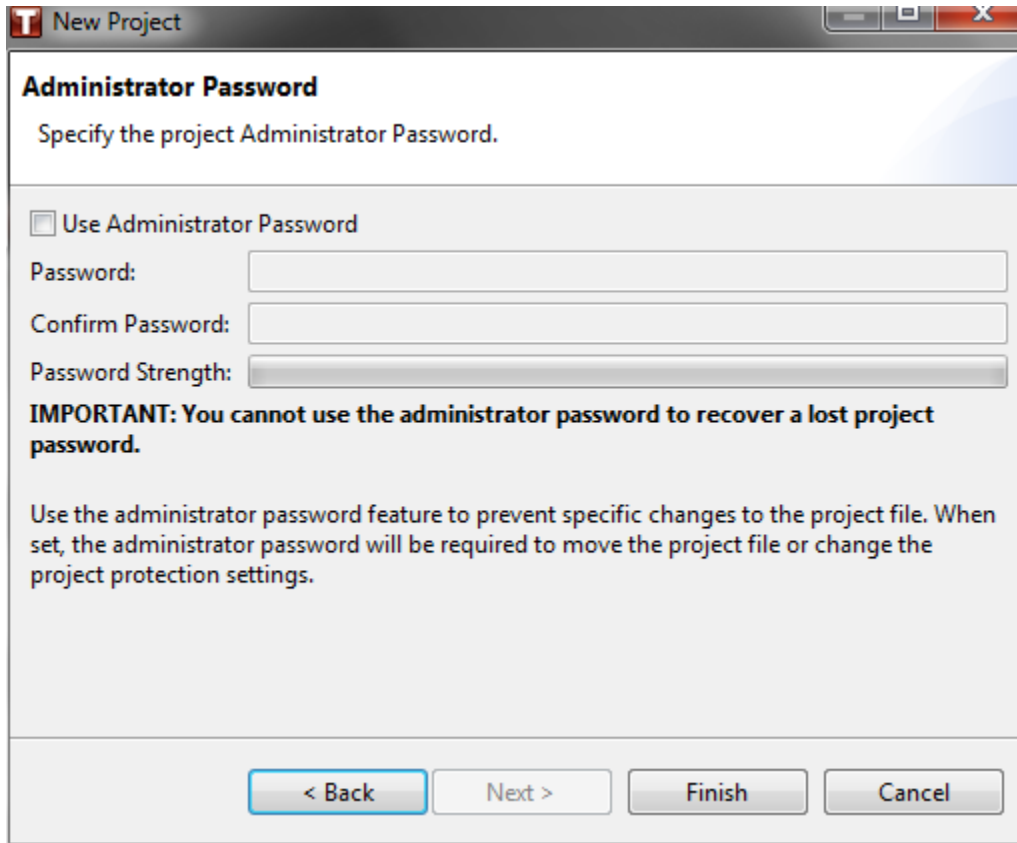
Confirm Password:

Password Strength:

**Remember your password. You cannot access your project without it.**

< Back   Next >   Finish   Cancel

An administrator Password can be setup to protect the project file from specific changes being made and to protect the project from being moved without the administrator password. Click finish after selecting the Administrator choice.



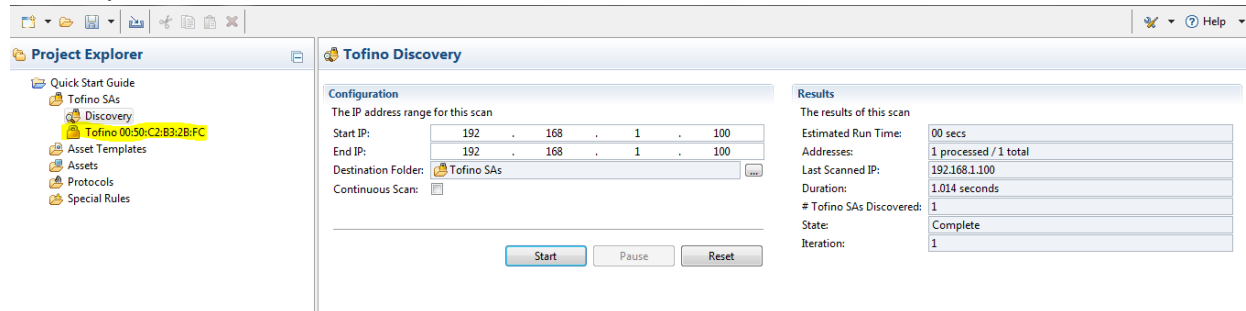
The screenshot shows a window titled "New Project" with a standard Windows-style title bar. The main content area is titled "Administrator Password" and contains the following elements:

- A heading: "Administrator Password"
- Instructional text: "Specify the project Administrator Password."
- A checkbox: "Use Administrator Password" (which is currently unchecked).
- Input fields: "Password:" and "Confirm Password:" (both empty).
- A progress indicator: "Password Strength:" with a horizontal bar below it.
- A warning: "**IMPORTANT: You cannot use the administrator password to recover a lost project password.**"
- Explanatory text: "Use the administrator password feature to prevent specific changes to the project file. When set, the administrator password will be required to move the project file or change the project protection settings."
- Navigation buttons: "< Back", "Next >", "Finish", and "Cancel".

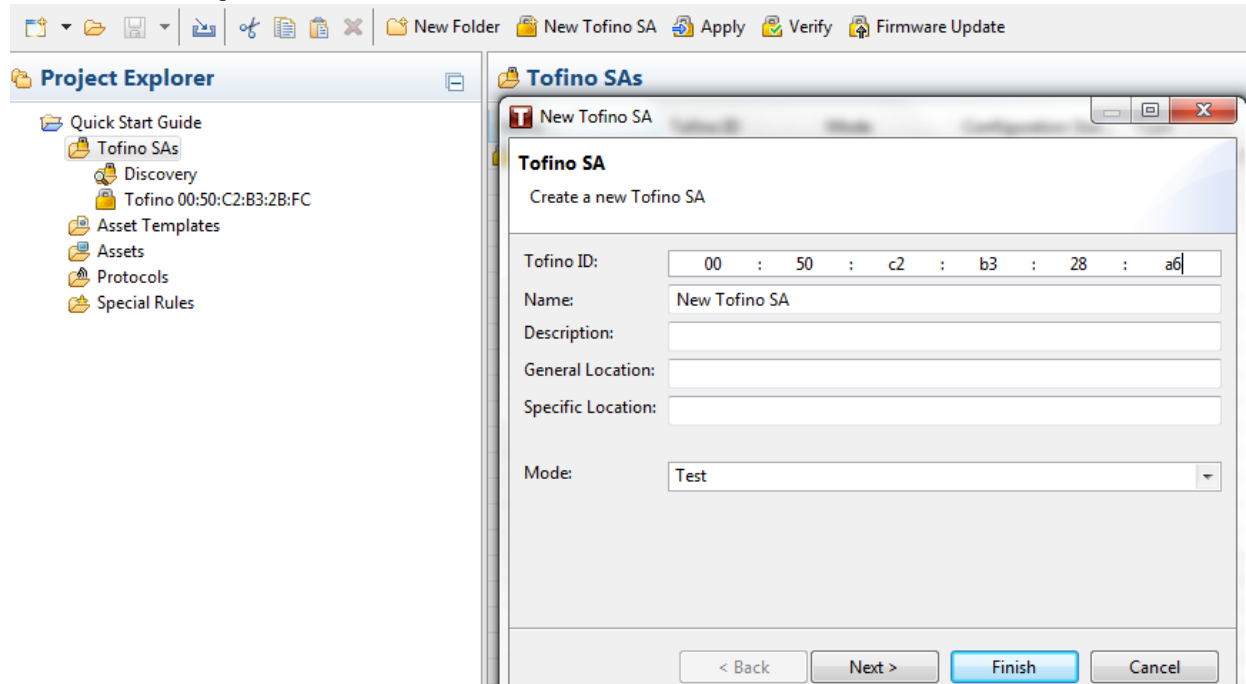
## Define the Tofino SAs

Define a Tofino SA for each physical device in the field. You can create a new Tofino SA from scratch or discover devices already configured on the network. You will transfer the configurations from the Tofino Configurator to the actual Tofino SAs installed on your network.

To discover a Tofino click on Tofino SA and then click Discovery. Next enter in the Ip address or range of IP addresses that are on the protected side of the Tofino and click start. The discovery will create the Tofino by Mac ID as shown below.



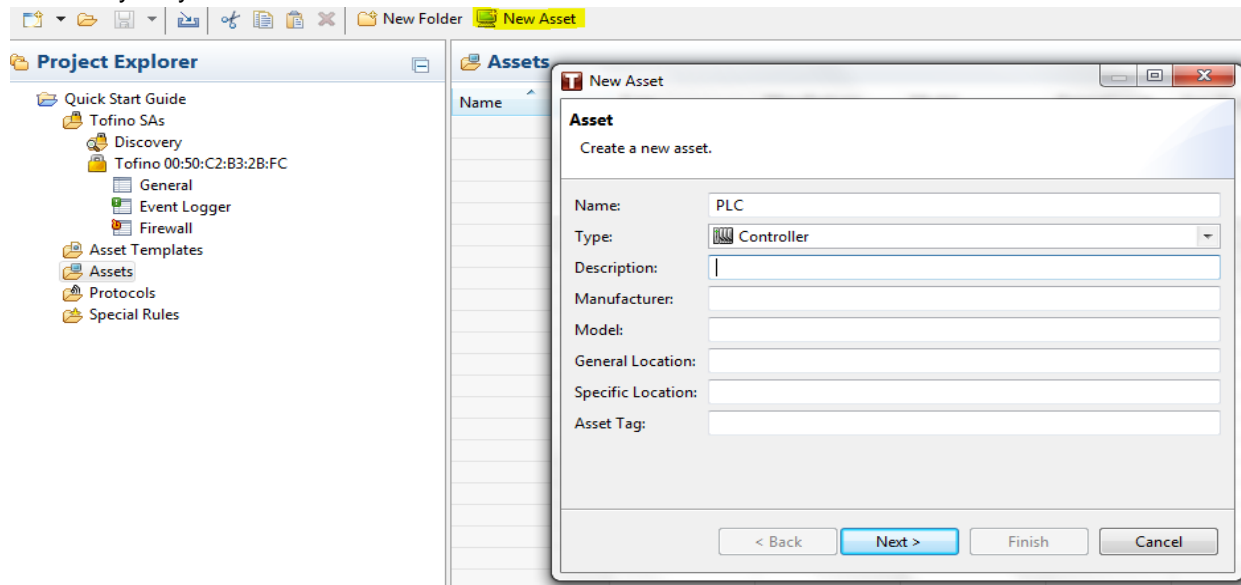
To create a Tofino SAs click on New Tofino SA, enter in the Mac ID (located on the front of the device) of the Tofino being created and click Finish. This method will also create a Tofino in the tree on the left.



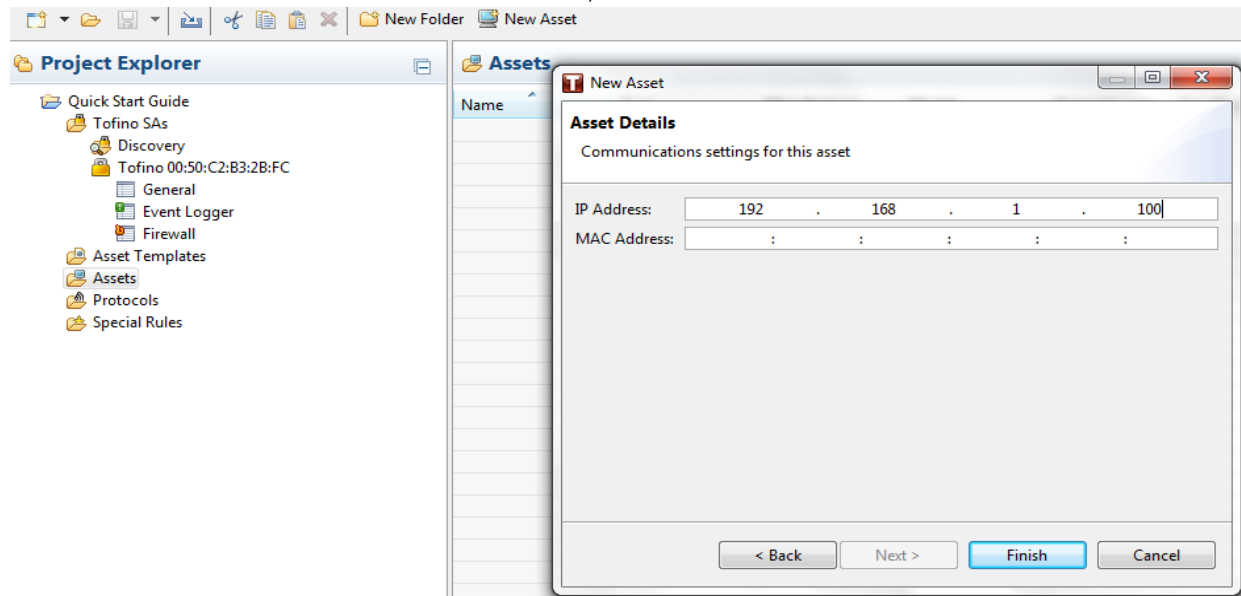
## Define Assets

Create objects to represent the real world devices and systems on the control network: both physical devices and virtual entities. These will be used to create firewall rules.

Click on Assets in the tree and select New Asset in the tool bar. After filling in the information that is necessary for your device click next.



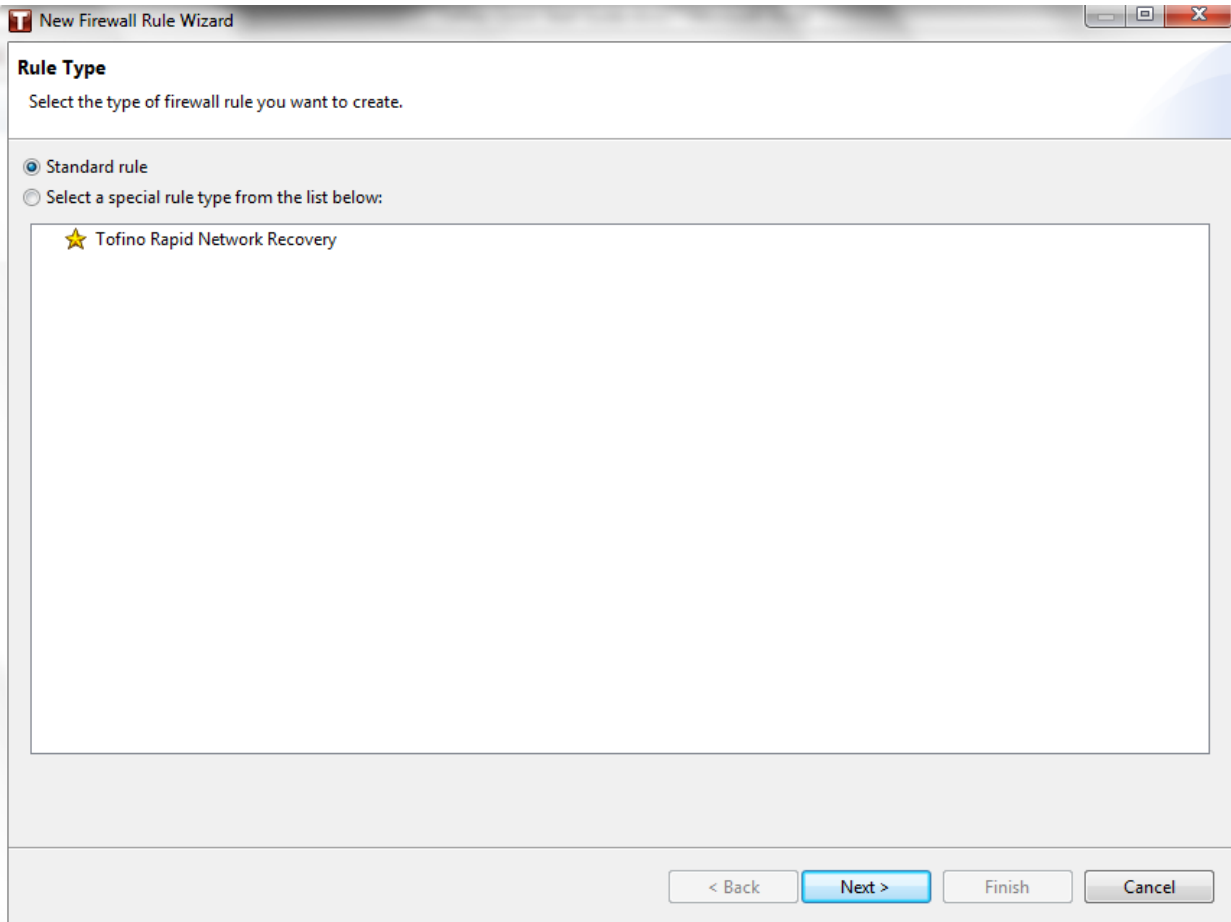
Enter the IP address of the device and/or Mac ID, then click finish.



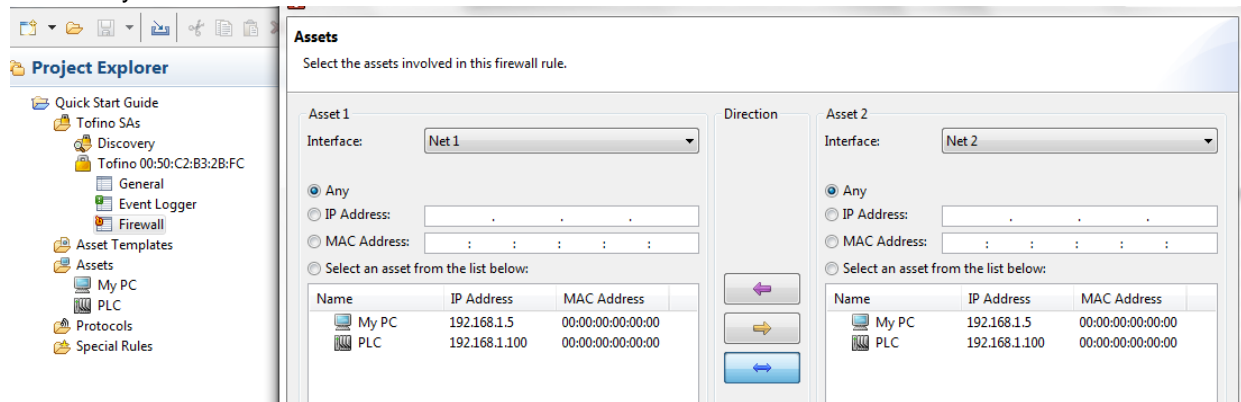




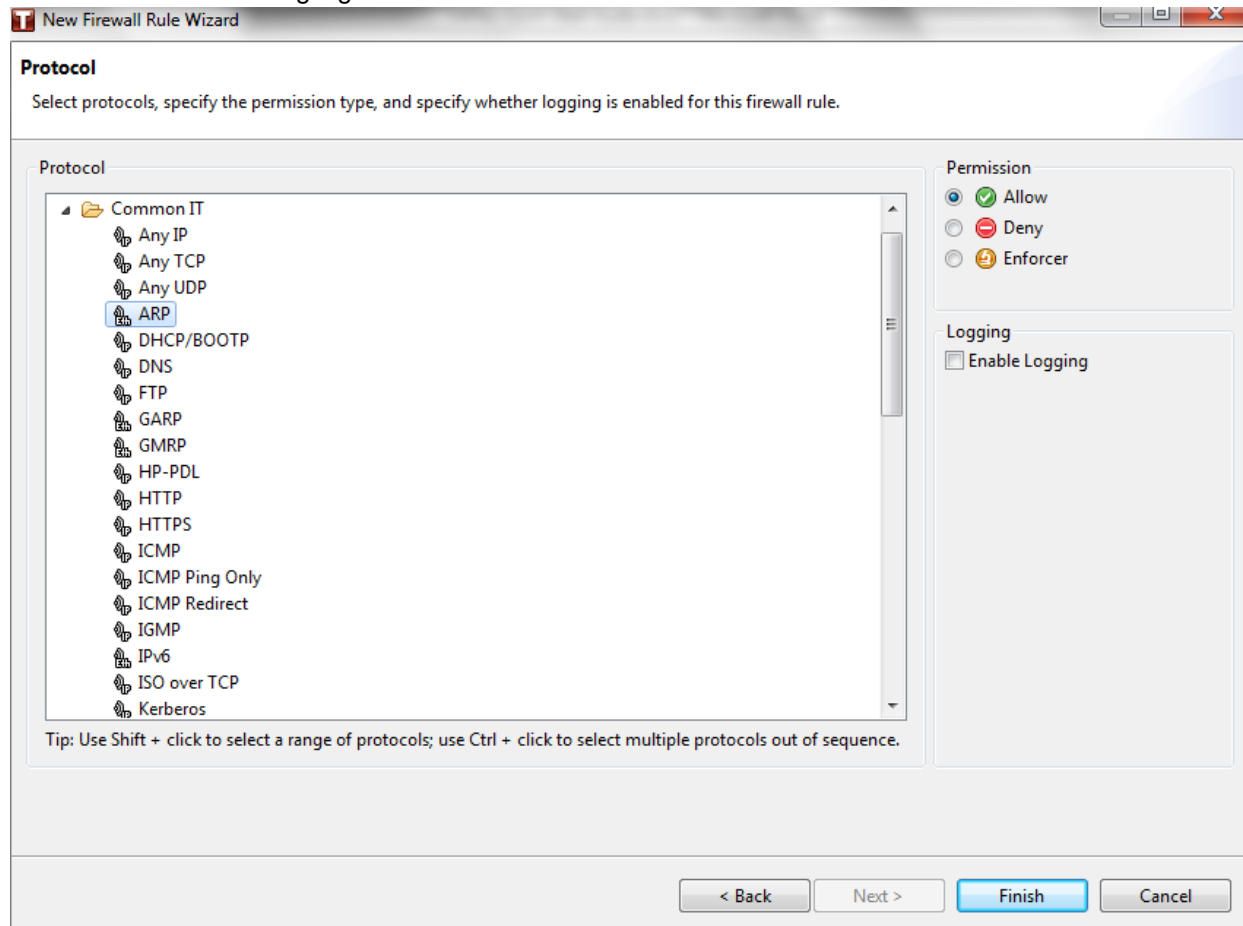
Make sure standard rule is selected and click next.



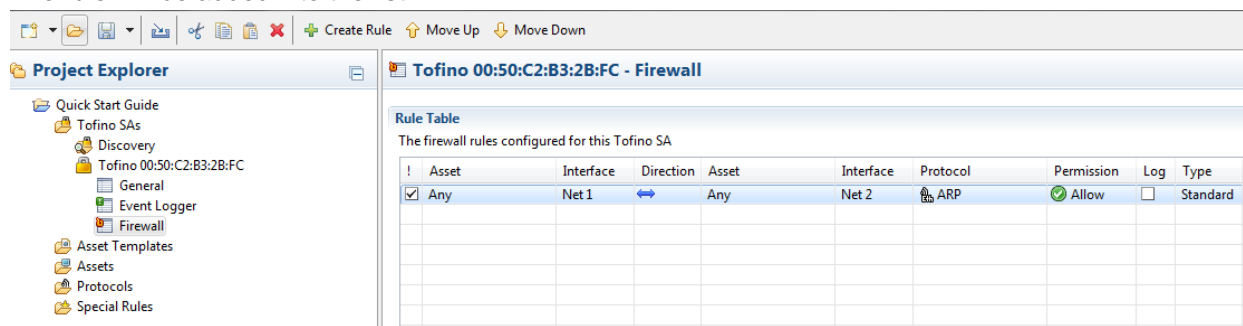
Select any for interface 1 and interface 2. Then select the bidirectional arrow and click next.



Go to common IT and highlight ARP and click finish.



The rule will be added into the list.

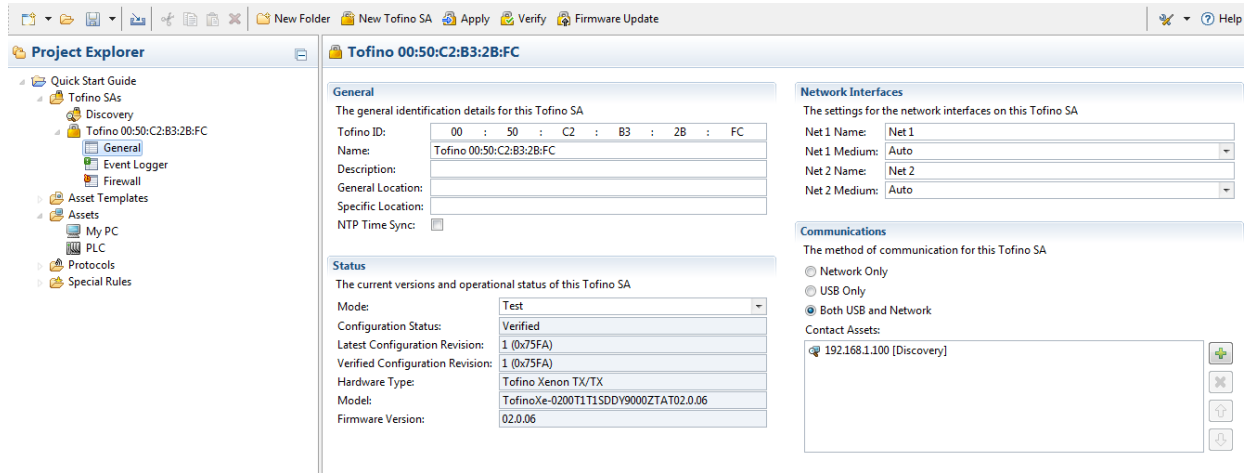


**NOTE: A rule will have to be created for each type of Ethernet packet that needs to be allowed through the Tofino. If there is no rule the packet will be blocked.**

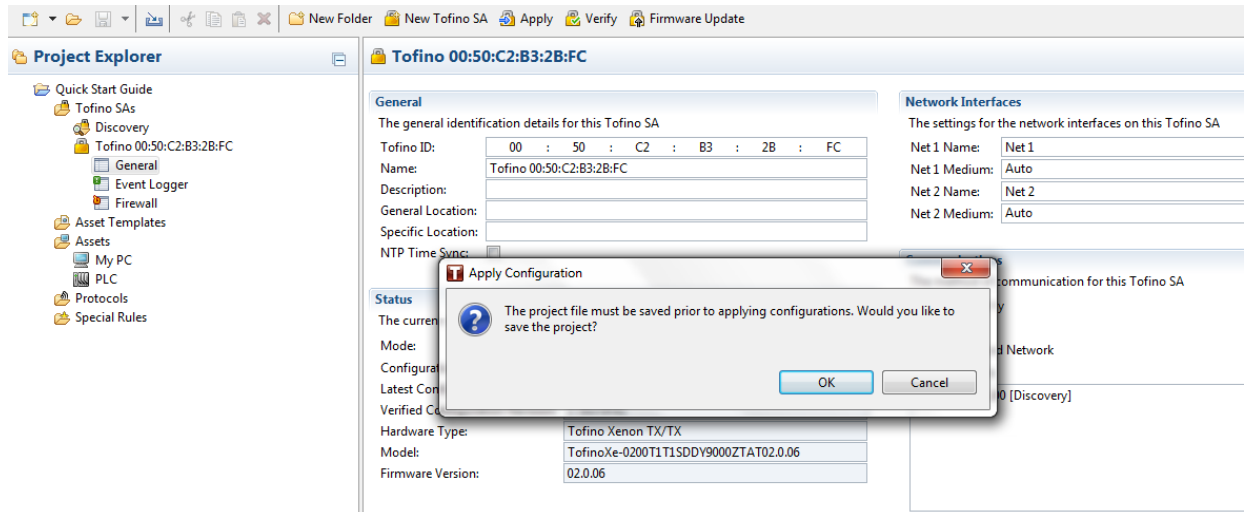
## Create the configuration

After installing the Tofino SAs in the field, transfer the Tofino SA configuration data to the devices. You can do this over the network or with a USB storage device.

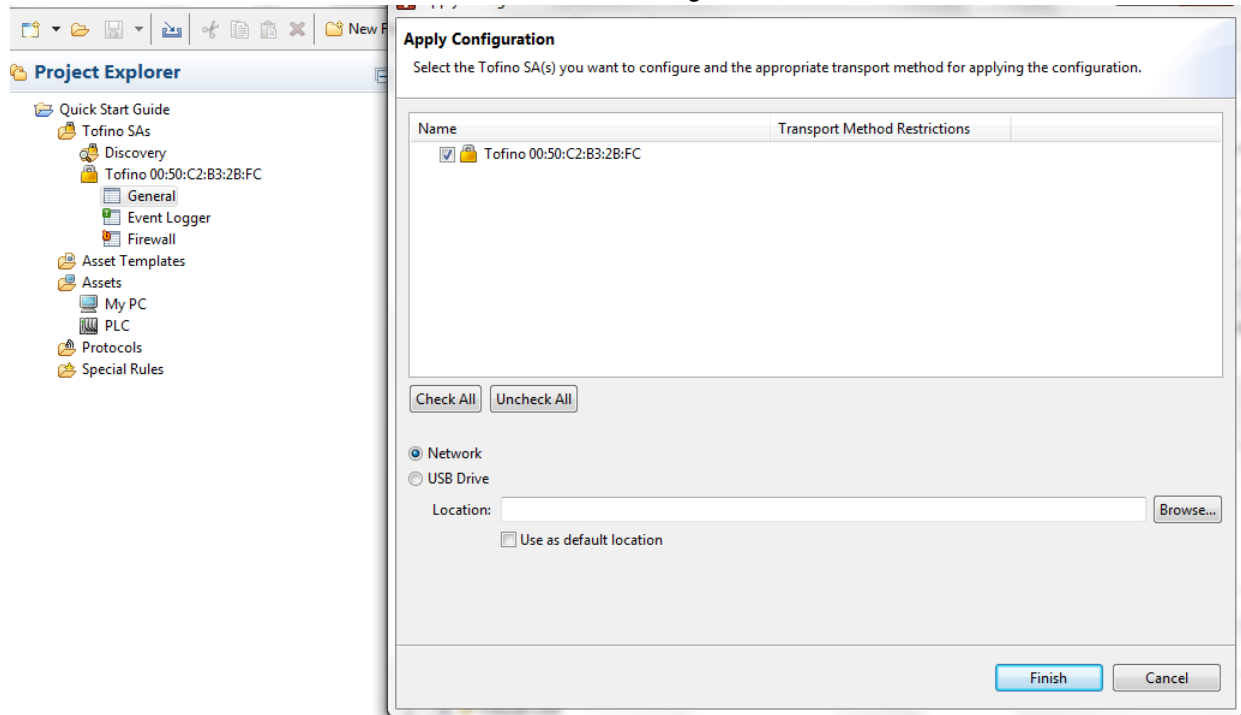
Select a Tofino SA, click general, verify the configuration is set to test mode under status, and click Apply in the toolbar.



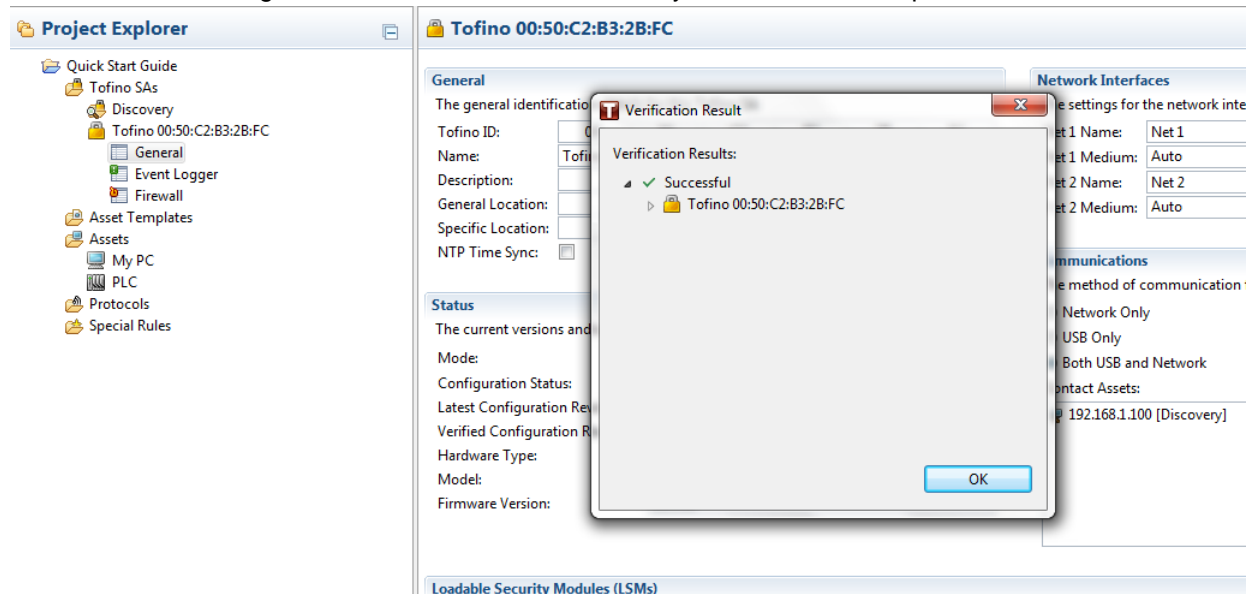
Click OK



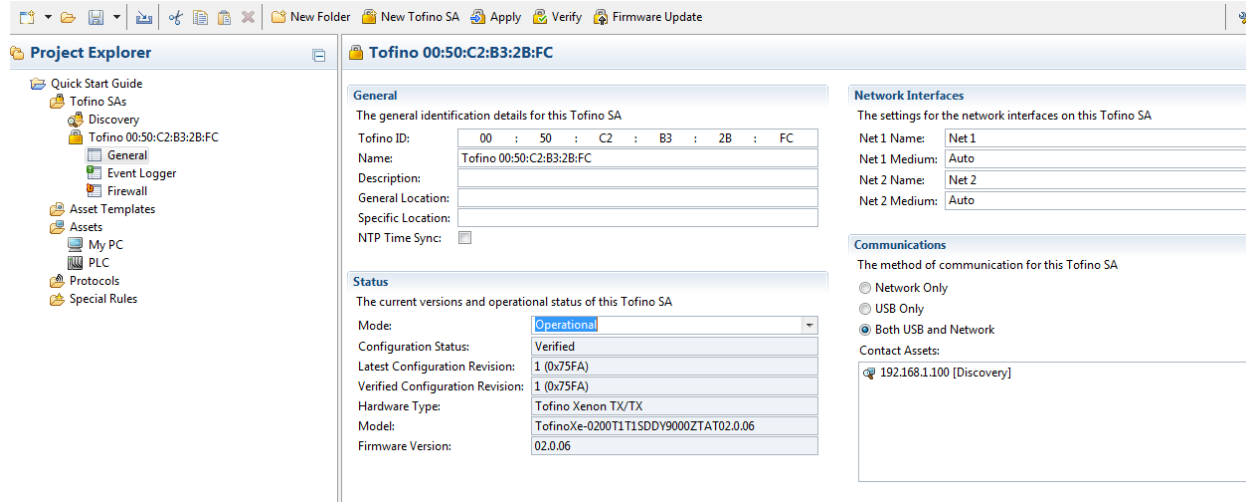
Select either network or USB drive as the method of configuration and click finish.



If the method of configuration is network the TC will verify the results of the upload.



Confirm all of the required traffic is passing through the Tofino. If some of the traffic is being blocked make the necessary changes to get all of the rules in place. After all of the needed traffic is passing through the Tofino change the Mode to operational and select apply in the tool bar to start the configuration process.



If you need assistance with this process you can contact Technical Support:  
 Register and track your technical support request using the [Hirschmann Online Support Center](#)  
 or call 213-799-0906.  
 Tech Support is provided from 8:00 am to 7:00 pm EST Eastern, Monday through Friday.