NI VeriStand Add-on: Workspace Import/Export Tool

Overview

The Workspace Import/Export Tool add-on allows users to manage multiple workspaces for a single system definition file. This functionality is commonly used for managing high-channel systems where users want to reuse one of more workspaces without recreating them from scratch everytime.
This tool, together with aliases, allows user to create workspaces once and reuse them over multiple systems or on the same system with different test conditions (e.g managing subsets of channels located in different screens).
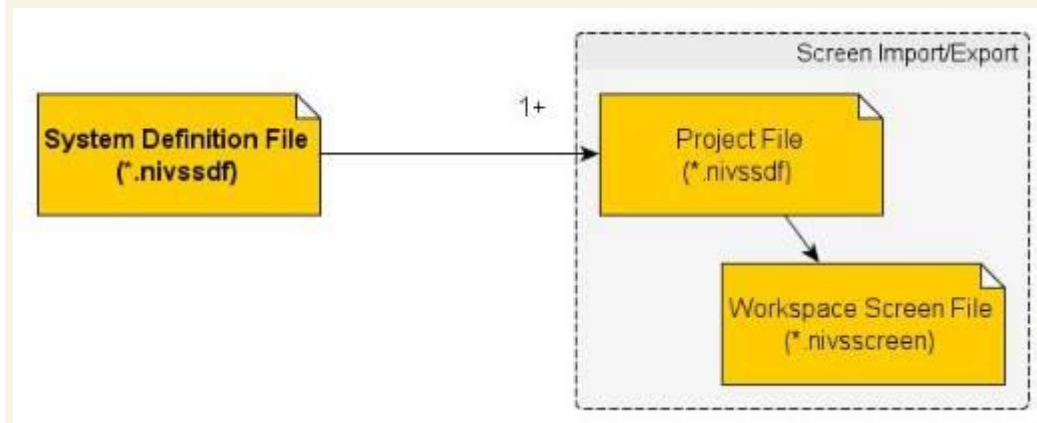
Instructions for Use

To use the Workspace Import/Export Tool add-on, download the attached zip file.

Launch Veristand Through a Custom Getting Started Window

In order to manage multiple screens for a specific system definition file, it's necessary to run the Veristand Gateway from a custom Getting Started Window (GSW), instead of launching Veristand.exe.

This custom GSW can be a generic Operator Interface developed using Veristand Execution API . However, there's a list of required steps that needs to be done:

1. Launching **NI Veristand.exe** with the following command line options
2. Manage deployment of System Definition Files
3. Open/Close Veristand Projects in order to change screen file (.nivscreen) as screen file must be shipped together with .nivsproj files.
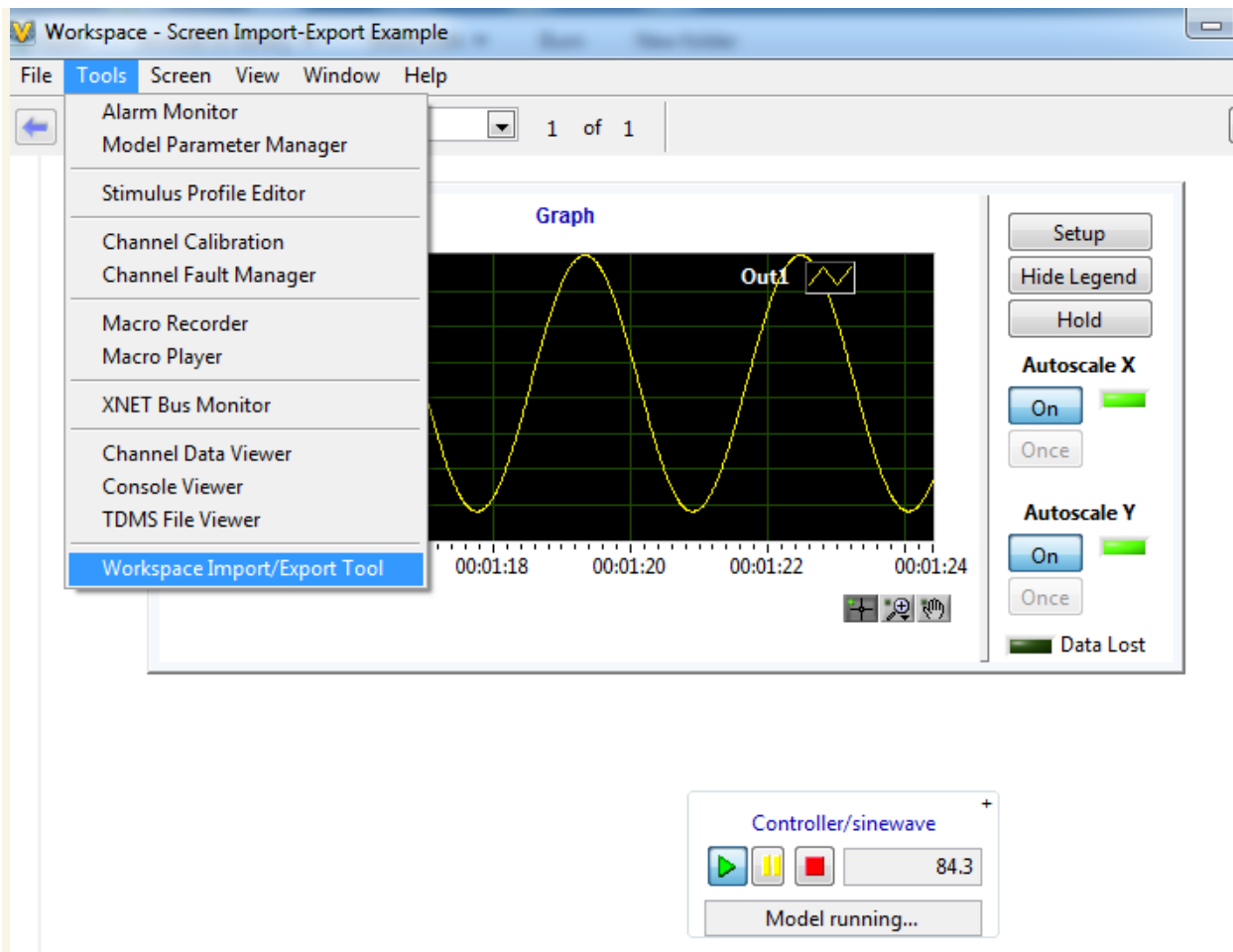

The shipping example shows a simple demo of a custom GSW to manage a System definition file with multiple screens.

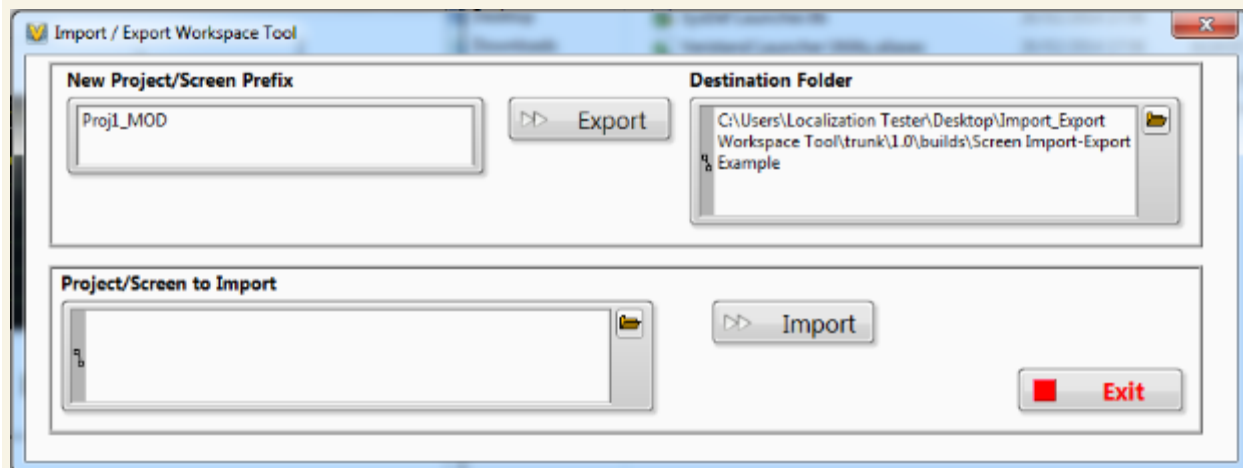# Installing and Using the Workspace Import/Export Tool

To use the (Workspace Import/Export Tool follow these steps once you unzipped the content of the zip file:

1. Run the **Veristand Launcher Utility.exe** under *Veristand Launcher Utility* folder
2. Browse the **System Definition File** Control from the *System Definition Manager* window select the **Screen Import-Export Example.nivssdf** located under the *Screen Import-Export Example* folder
3. Once the **State** indicator is *idle,* press the **Start** button and wait for deployment of the .nivssdf file. At the end of this operation the **State** indicator should be set to *running*
4. Select one of the project file (.nivsproj) from the **Active Display** Combo box. Remember that the box lists only the project files located in the same folder of the System Definition File you deployed

Once that a Workspace has been loaded, you'll find the Import/Export tool under the **Tools -> Workspace Import/Export Tool**

and then select if you want to export the current project/screen files (.nivsproj/.nivsscreen) to disk or import them and replace the current screen.

In order to add this custom tool to your Veristand Projects, follow the instructions described here:

Adding a Custom Tool to the NI VeriStand Workspace

Add-on Requirements to Use the Source Code of the Workspace Import/Export Tool

The Workspace Import/Export Tool comes with the source code that is attached at the bottom of the document. To load the source code properly, you need to install these additional components:

- LabVIEW 2013

- Asynchronous Message Communication (AMC) Library

Known Issues

1. Once you close the *System Definition Manager* Panel, the Veristand Gateway could take several seconds to shut down.

Version History

1.0.0

- Released

Support and Contact

This add-on is provided as open-source software. If it does not meet your exact specification, you are encouraged to modify the source code to meet your needs. It is not officially supported by National Instruments.

If you encounter a problem with this add-on, or if you have suggestions for a future revision, please post your comment belo. You **must** use this page for support. Do not call National Instruments for support for this add-on.

National Instruments does not support this code or guarantee its quality in any way. THIS EXAMPLE PROGRAM IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND AND SUBJECT TO CERTAIN RESTRICTIONS AS MORE SPECIFICALLY SET FORTH IN NI.COM'S TERMS OF USE (http://ni.com/legal/termsofuse/unitedstates/us/).