

Itris Import/Export Tool Manual - TIA Portal

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Chapter 1

Itris Import/Export Tool - TIA Portal

1.1 Introduction of Itris Import/Export Tool

Itris Automation's **Itris Import/Export Tool** is a simple way to proceed with code importation and exportation from and to several Software Development Environments, in a unified user experience. It is suitable for use with PLC Checker, PLC DocGen, ICS Monitoring, PLC Converter, ...

For more information about how to setup the process and how to use it, please check the tool's manual. This documentation is only applicable to the TIA Portal plugins.

1.2 Available plugins for TIA Portal

Every version of the TIA Portal requires a different plugin in order to work properly. In some cases, the compatibility between plugins is not possible for the same version number of TIA Portal (for example V14 and V14 SP1).

Currently, these plugins are available for the TIA Portal:

- Version 13 SP1
- Version 13 SP2 : Works with the same plugin as Version 13 SP1
- Version 14 : This plugin does not work with the Version 14 SP1 and it also cannot co-exist with the SP1 plugin.
- Version 14 SP1 : This plugin does not work for the Version 14 and it also cannot co-exist with the Version 14 plugin.
- Version 15
- Version 15.1

1.3 Specific Pre-requisite for TIA Portal

To use the plugins to proceed with import/export operations, you will have to meet the following conditions (the procedures to meet them are described below):

- Have the TIA Portal installed on the computers that will run the operations,
- Have all the optional modules (such as Safety, WinCC...) used in the projects to export setup on the computer that will perform the exports,
- Have Openness (interconnection interface)
- Have the authorization files for the version 13 SP1, 13 SP2 and 14 of the TIA Portal
- Handle the projects in the same version as the TIA Portal

1.4 Plugins Setup

The TIA Portal plugins have to be set up in the same way as the plugins for the other Software Development Environments. They all require Openness to be setup too. Openness is a piece of software provided by Siemens as the interconnection system between **Itris Import/Export Tool** and the TIA Portal. To learn how to setup Openness, please read the section "Openness installation".

Once Openness is ready, you will have to authorize the users to use it, only once per computer. To learn how to do so, have a look at the section "Users authorization".

The versions **13 SP1, 13 SP2 and 14** of Openness require you to provide some authorization files to work. To learn how to get these files and set them up, read the section "Authorisation files".

1.4.1 Openness installation

For the versions **13 SP1, 13 SP2, 14 et 14 SP1** of the TIA Portal, Openness has to be setup independently from the TIA Portal. You will find it inside the "support" folder of the installation DVD of the TIA Portal. If you don't have the TIA Portal installation DVD, then you can download a trial version of the TIA Portal from Siemens' website and unzip it into a known folder. You will find the "support" folder after the unzip process. The TIA Portal license is used for the Openness package, so even if you have downloaded a trial version of the TIA Portal, the Openness package will not be a trial version as long as you have a valid license for your TIA Portal.

*If you are running the versions **13 SP1, 13 SP2 or 14** of the TIA Portal, you will need to get the authorisation files, please read the section "Authorisation files".*

For the versions **15** and **15.1** of the TIA Portal, the installation of Openness has to be done during the installation process of the TIA Portal. During the step where you choose the components to setup, you have to check the Openness Package in the list. If you didn't do this when you set up the TIA Portal, then restart the installer and choose to update the current installation.

Regardless of the version you are using, to complete the setup, you will have to authorise the users to use Openness, so read the section "Users authorisation" for the procedure.

1.4.2 Users authorisation

Once Openness is setup, you have to authorise the computer's users to use it.

To do so, you have to go on your computer's management panel:

- Right click on "Computer" (or "This PC" depending on which version of Windows you are using)
- Select "Manage"
- In the window that opens, go to "System tools", "Local users and groups" and then "Groups"

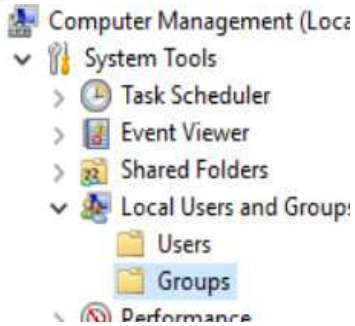


Figure 1.1:

- You should see a group called "Siemens TIA Openness" in the central part of the screen, double-click on it
- If the name of the user that you want to authorize appears in the screen, then the procedure is already complete, so you do not need to do anything else. Otherwise, click on "Add..."

- Type the name of the user that you want to authorize and click on "Verify names", the name of your user will now appear underlined, meaning that Windows recognises it. If not, try to complete it or search for it.
- Once you're done, click on "OK" followed by "Apply"
- Reboot your computer

Once this procedure is done, if you are using the versions **13 SP1, 13 SP2 or 14** of the TIA Portal, please complete the procedure "Authorisation files" if you have not already done so. For the other versions, you're ready to use your exporters and importers.

NOTE	**On Windows 10 Home edition, it is not possible to add users to the "Siemens TIA Openness" group**

1.4.3 Authorization files

If you are using the versions **13 SP1, 13 SP2 or 14** of the TIA Portal, Siemens requires you to declare the use of Openness. To do so, you just have to follow the following procedure :
TIA Portal Openness Guidance Usage File Enabler File.

You don't have to setup the files by yourself as **Itris Import/Export Tool** can do it for you. When you use a plugin that requires these files, a window will prompt you to provide them. They will be setup for you automatically at this time.

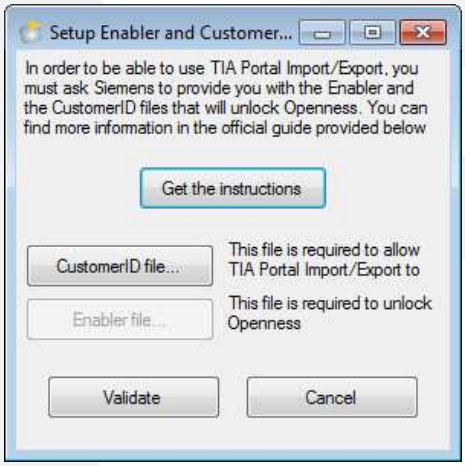


Figure 1.2:

1.5 TIA Portal specific information

1.5.1 Non compiled codes exportation

Non compiled codes cannot be exported by Openness. We suggest you to compile the entire project before running an exportation phase to prevent compilation-related exportation errors.

NOTE	**The import and export plugins do not compile your program to prevent any modifications to it. It's your responsibility to compile your programs.**

1.5.2 Protected code exportation

The plugins won't export any protected code in order not to break the code's protection rules applied by the customer's company.

If the user wishes to export all their code, it's up to them to unlock any protected code before running the exportation process. This allows the user to choose which blocks are allowed to be handled by Itris' tools.

For the Failsafe blocks, the protection can be removed as follows :

- Click on **Safety Administration**



Figure 1.3:

- In the entry **Access protection** click on **Change**
- In the window, enter your current password
- Click on "Revoke" to tell the TIA Portal that you no longer want to protect the blocks

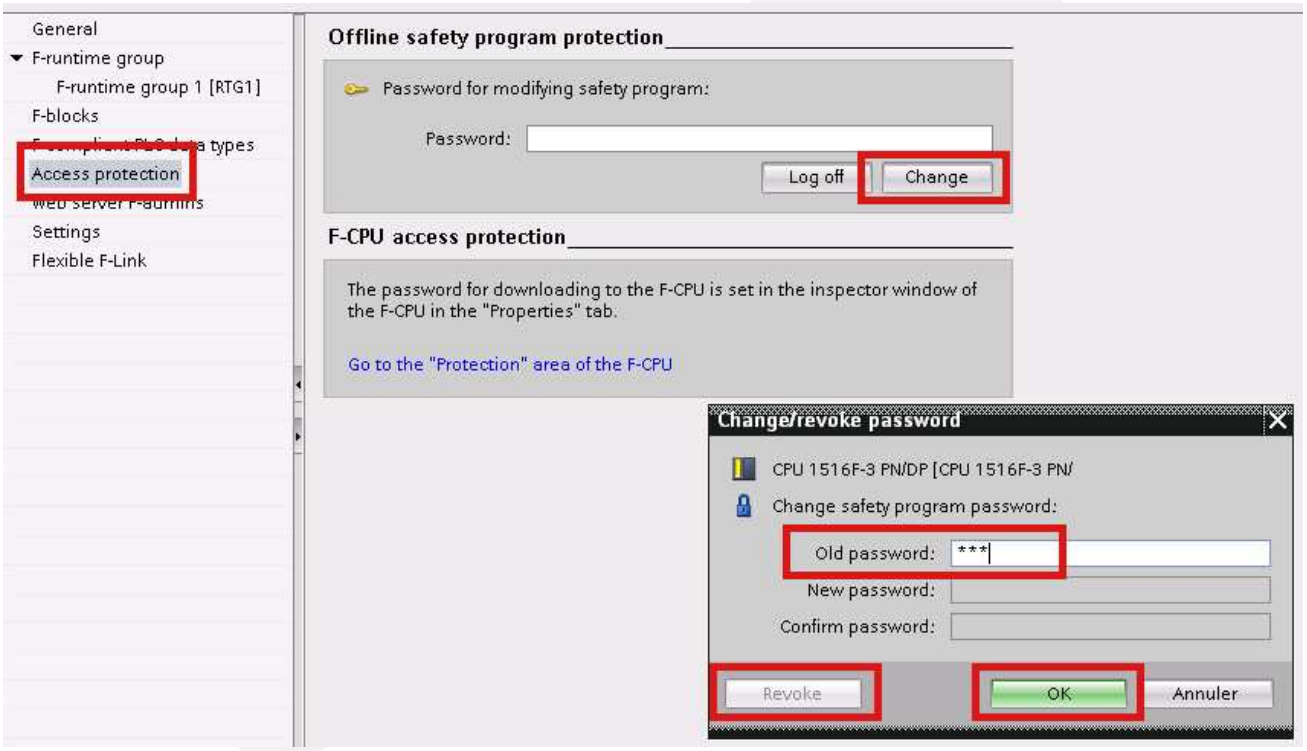


Figure 1.4:

- Save the settings and compile your code

NOTE	**Logging in to the program for edition does not unlock the codes for external access**

1.5.3 Project versions

The project files are saved in a version that is independent from that of TIA Portal. For instance, you can save a project as Version 14 and edit it with the TIA Portal Version 14 SP1 without realising.

Openness does not support this behaviour and requires you to only open projects that are in the same version. So if you are using the TIA Portal Version 14 SP1 and the Openness Version 14 SP1, then your projects must also be in the Version 14 SP1 format in order for Openness to open them.

To ensure that your projects are saved in the right format, open them using the TIA Portal, then go on the "File" menu. If the option "Upgrade" is not in a grey tint, then it means that your project is not in the same version as the TIA Portal. To update its version, just click on this menu entry.

1.5.4 Plugin authorisation

When you are running an operation for the first time with the TIA Portal, it will ask you if you want to authorise the plugin to access Openness via the following window:

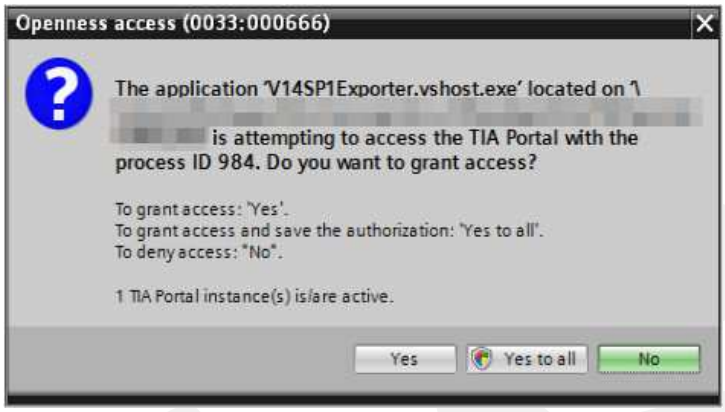


Figure 1.5:

To continue with the operation, two options are possible. The second one, "Yes to all" will ensure that this window will no longer appear. This is particularly adapted to when you want to use the tool with the command line interface or if you don't want to click on "Yes" every time you run an operation.