# Using ISaGRAF, Basics

V1.0
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# Using ISaGRAF with iPro

ISaGRAF is the software tool you need to use to program the iPro PLC.

Here are the instructions for using ISaGRAF:

1. [Organizing Directories.](#)
2. [How to start a new project.](#)
3. [How to start simulation.](#)

# 1. Organizing Directories

Follow the instructions in ISaGRAF General Guide:

- \ISaGRAF_installation_package\1) ISaGRAF general guide\**ISaGRAF General guide.pdf**
- **Chapter 2** - Organizing Directories

**The main points:**

- Projects created with different ISaGRAF versions must be in different folders, so you need to create a folder e.g. **\ISa6\** and save all your projects developed using ISaGRAF 6 under this folder.
- Create a sub folder **\SolutionFamily\** that will contain all projects relevant to the same solution family

# 2. How to Start a New Project

Usually one starts from a template or from a previous project, which already have all IO declarations.

1. **Starting from a site template -**
   a. Log-in https://ipro.academy/login/
   b. Browse to "**Templates**" - https://ipro.academy/project-category/templates/
   c. Download a specific template.
2. **Starting from a site example -**
   a. Log-in https://ipro.academy/login/
   b. Browse to "**Examples**" - https://ipro.academy/project-category/examples/
   c. Download a specific example.
3. **Starting from the sample template -**
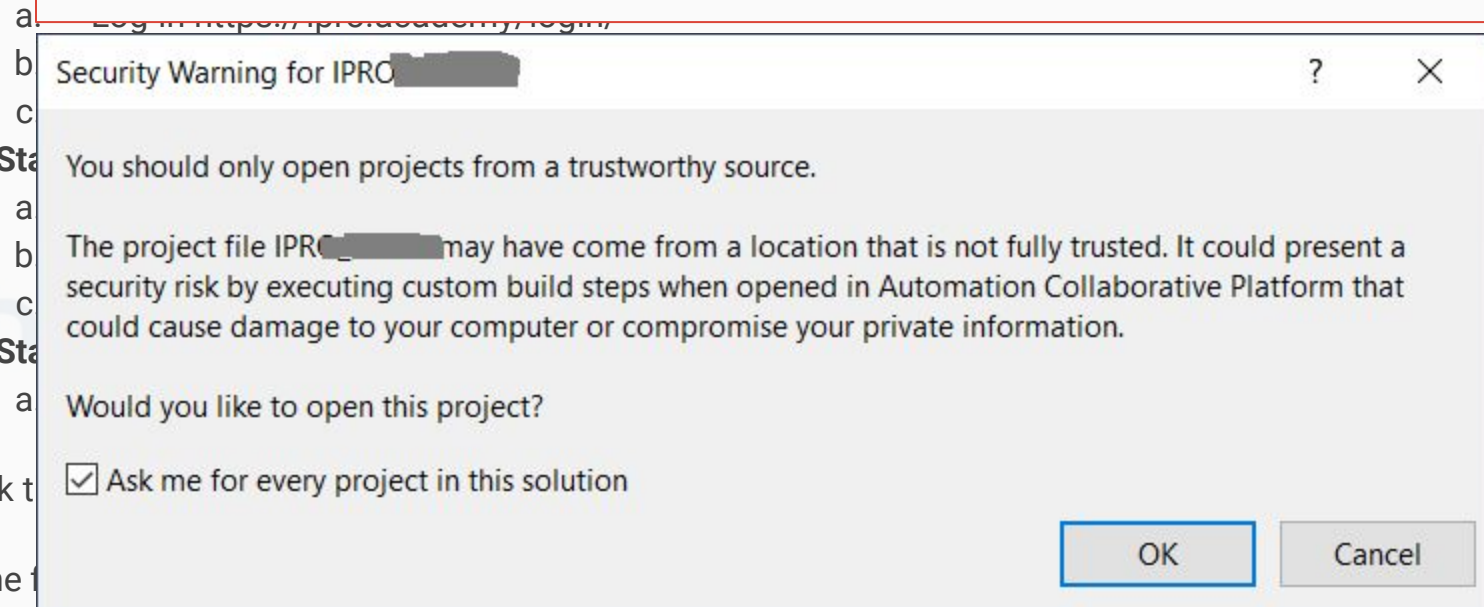   a. \ISaGRAF_installation_package\4) First project\

Unpack the zip file into your local folder \ISa6\SolutionFamily\

Find the file with the extension *.**isasln** and double-click it to open ISaGRAF

# 2. How to Start a New Project

Usually one starts from a template or from a previous project, which already have all IO declarations.

1. **Sta...**
   a. ~~Log in https://ipro.academy/login/~~
   b. ...
   c. ...
2. **Sta...**
   a. ...
   b. ...
   c. ...
3. **Sta...**
   a. ...

Unpack t...

Find the f...

> You might get a security warning, click "**OK**" to close it:

Security Warning for IPRO▓▓▓▓▓▓                    ?    ✕

You should only open projects from a trustworthy source.

The project file IPRO▓▓▓▓▓▓ may have come from a location that is not fully trusted. It could present a security risk by executing custom build steps when opened in Automation Collaborative Platform that could cause damage to your computer or compromise your private information.

Would you like to open this project?

☑ Ask me for every project in this solution

OK        Cancel

# 3. How to Start Simulation

Follow the instructions in ISaGRAF General Guide:

- \ISaGRAF_installation_package\1) ISaGRAF general guide\**ISaGRAF General guide.pdf**
- Starting in **Chapter 20.2** - Preparing a project for simulation

**The main points:**

- To enable debug info, right-click POU, click "Properties",
    - in POU.Properties, set "Generate Debug Info := True"
- Before starting the simulation, right-click solution, click "ReBuild Solution"
- **Note:** When the project is done, remove the debug information from the final code.... The solution must be rebuilt .

# 3. How to Start S[...]

Follow the instructions[...]

- \ISaGRAF_insta[...] **eneral guide.pdf**
- Starting in Chapt[...]

**The main points:**

- To enable debug[...]
  - in POU.Prop[...]
- Before starting th[...]on"
- **Note:** When the p[...]e final code.... The solution must be[...]

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**Properties** ▼ 📌 ✕

POU: RTC ▼

### Code Generation

| | |
|---|---|
| Generate Debug Info | True ✓ |
| Generate Monitoring Symbol | True |

### Info

| | |
|---|---|
| Comment | |
| Description | |
| Full Name | Void_Template.Config.Resource.RTC |
| Language | FBD |
| Name | RTC |
| Order | **1** |
| Password Protected | False |
| Path | C:\Users\atara\Documents\work\ISa[...] |

**Generate Debug Info**

Indication of whether to generate information required for deb...

thermoline

Follow the i[...]

- \ISaGR[...] **df**
- Startin[...]

**The main p[...]**

- To ena[...]
  - i[...]
- Before[...]
- **Note:** [...] e.... The solutic[...]
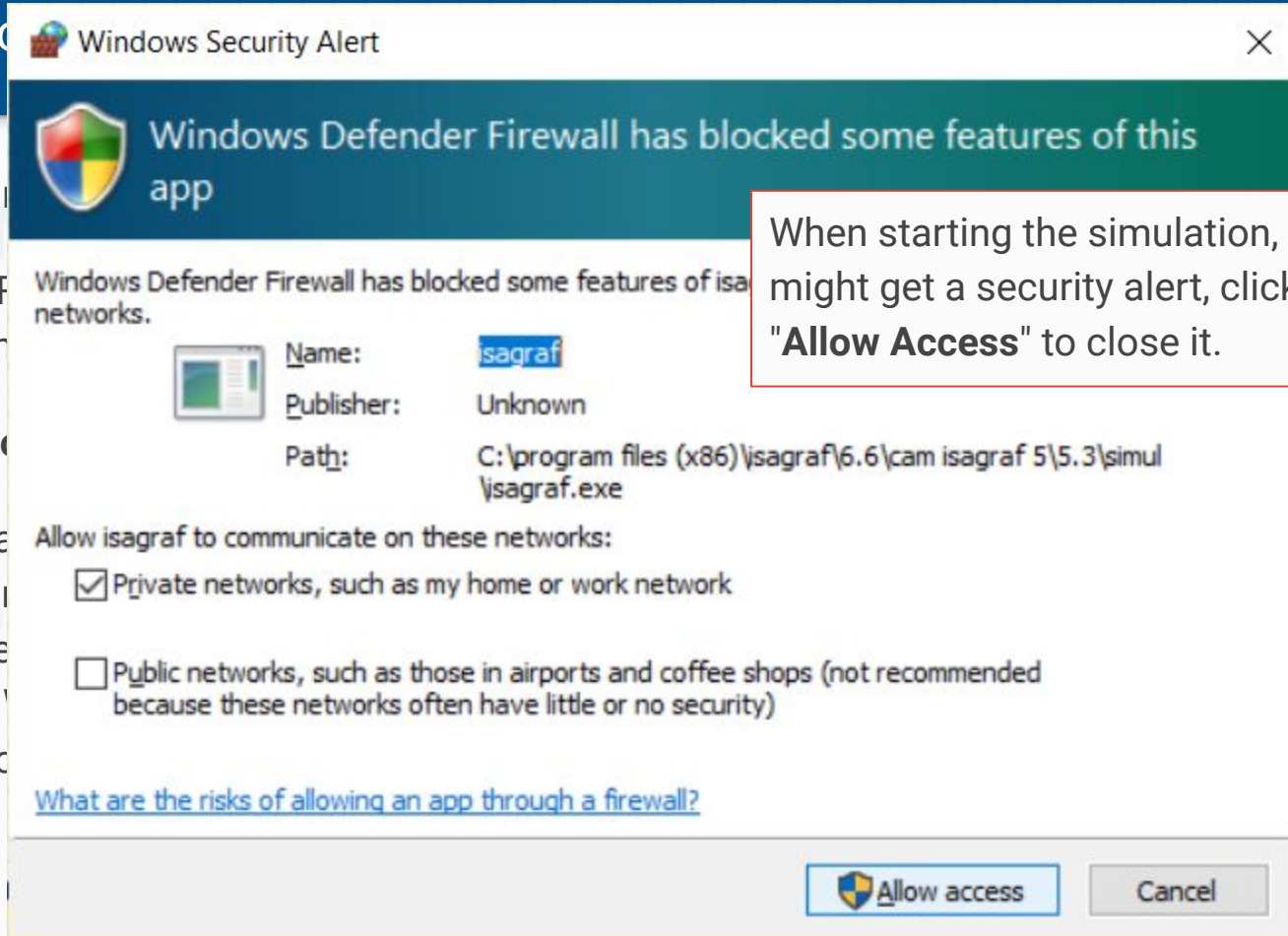


When starting the simulation, you might get a security alert, click "**Allow Access**" to close it.

# Congratulations!

Now you can use your ISaGRAF