ISaGRAF Introduction

V1.0
May 2023

ISaGRAF Introduction

1. ISaGRAF

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

thermoline

ISaG

About

ISaGRAF 6

ISaGRAF 6.6.8 (Build 6.6.2724.0)
Copyright © 2020 Rockwell Automation Technologies, Inc. All Rights Reserved.

Installed modules:

BindingTool Package
I/O Wiring Tool
IEC61499Package
ISaGRAF CAM3 Conversion Table Tool
ISaGRAF.Acf.About.Vsx

Copy Info to Clipboard

Module details:

Location: C:\Program Files (x86)\ISaGRAF\6.6\ACP\PackagesToLoad
\ISaGRAF.ISaGRAF5.Workbench.BindingTool.Vsx.dll
Title: BindingTool Package
Version: 6.6.2724
Assembly Version:6.6.0.0

Warning: This computer software is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this software, in whole or in part, may result in severe civil and criminal penalties, and offenders shall be prosecuted to the maximum extent possible under law.

OK

thermo

2. Start Template

Start a project from a template, where the variables of the inputs and outputs of the controller are already defined.

SysParameters-VAR

| Name	Scope	Data Type	Initial Value	Direction	Attribute	Comment
AO03	Ex_PID_R	DINT		VarOutput	Write	Analog Output AO03
AO04	Ex_PID_R	DINT		VarOutput	Write	Analog Output AO04
AO05	Ex_PID_R	DINT		VarOutput	Write	Analog Output AO05 (only for 10DIN models)
AO06	Ex_PID_R	DINT		VarOutput	Write	Analog Output AO06 (only for 10DIN models)
ConfAO05	Ex_PID_R	DINT		VarOutput	Write	Analog Output 5 setup: 0=0..10V, 1=4..20mA, 2=Relay, 3…
ConfAI01	Ex_PID_R	DINT		VarOutput	Write	Analog Input 1 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI02	Ex_PID_R	DINT		VarOutput	Write	Analog Input 2 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI03	Ex_PID_R	DINT		VarOutput	Write	Analog Input 3 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI04	Ex_PID_R	DINT		VarOutput	Write	Analog Input 4 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI05	Ex_PID_R	DINT		VarOutput	Write	Analog Input 5 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI06	Ex_PID_R	DINT		VarOutput	Write	Analog Input 6 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI07	Ex_PID_R	DINT		VarOutput	Write	Analog Input 7 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI08	Ex_PID_R	DINT		VarOutput	Write	Analog Input 8 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI09	Ex_PID_R	DINT		VarOutput	Write	Analog Input 9 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4…
ConfAI10	Ex_PID_R	DINT		VarOutput	Write	Analog Input 10 setup: 0= NTC, 1=PTC, 2=2..20mA, 3=4
ConfAO06	Ex_PID_R	DINT		VarOutput	Write	Analog Output 6 setup: 0=0..10V, 1=4..20mA, 2=Relay, 3
DI01	Ex_PID_R	BOOL		VarInput	Read	Digital Input DI01
DI02	Ex_PID_R	BOOL		VarInput	Read	Digital Input DI02
DI03	Ex_PID_R	BOOL		VarInput	Read	Digital Input DI03
DI04	Ex_PID_R	BOOL		VarInput	Read	Digital Input DI04

6

3. Project Structure

A project is built from programs functions and function blocks and you can also add libraries.

(*) POU - Program Organization Unit - Program or Function or Function block.

3. Project Structure
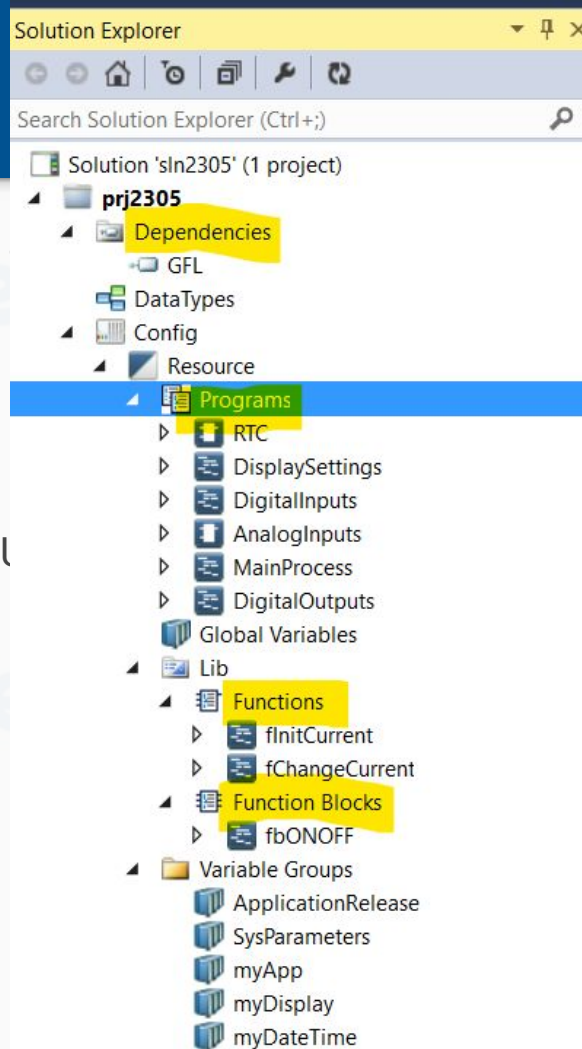
A project is built from programs [...] d you can also add libraries.
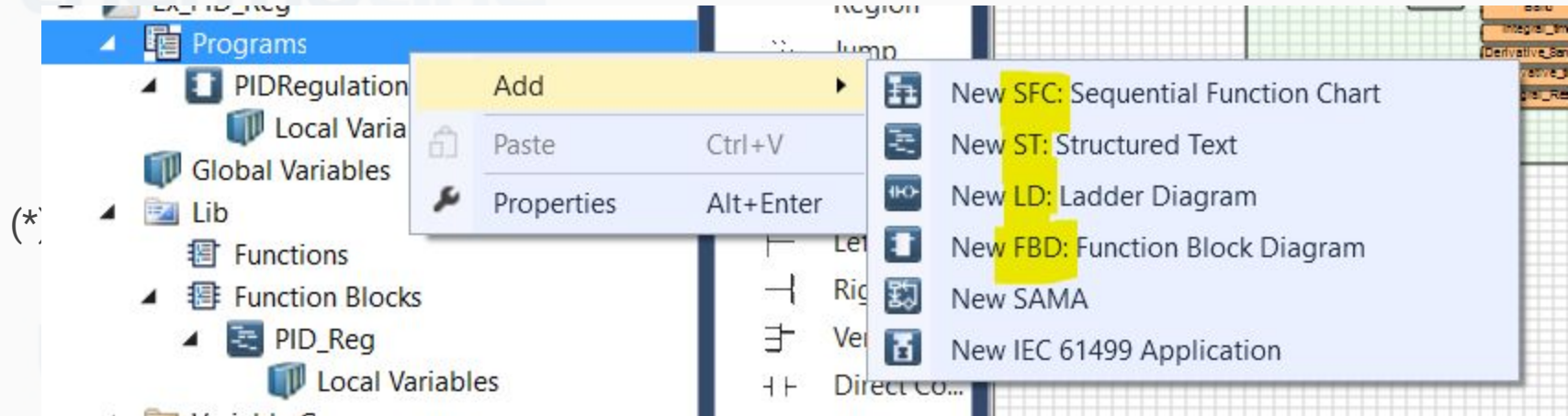
(*) POU - Program Organization U[...]ction block.

4. Available Languages

Each POU can be built from one of the languages - ST, LD, FBD, SFC.

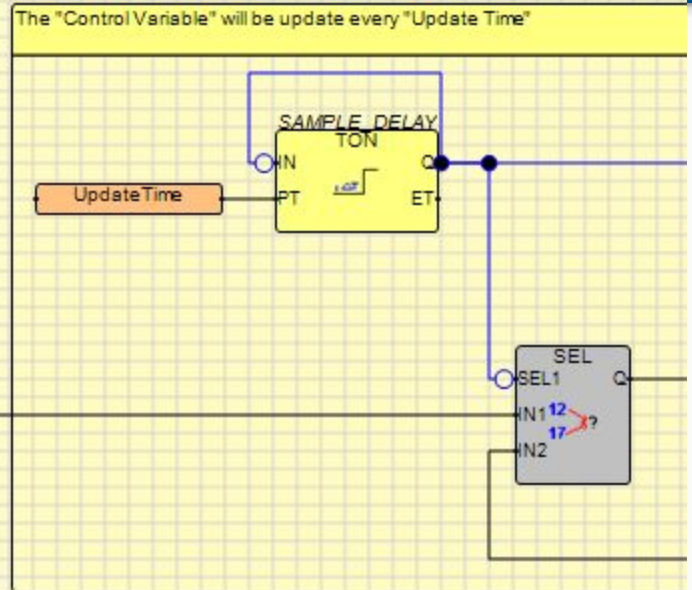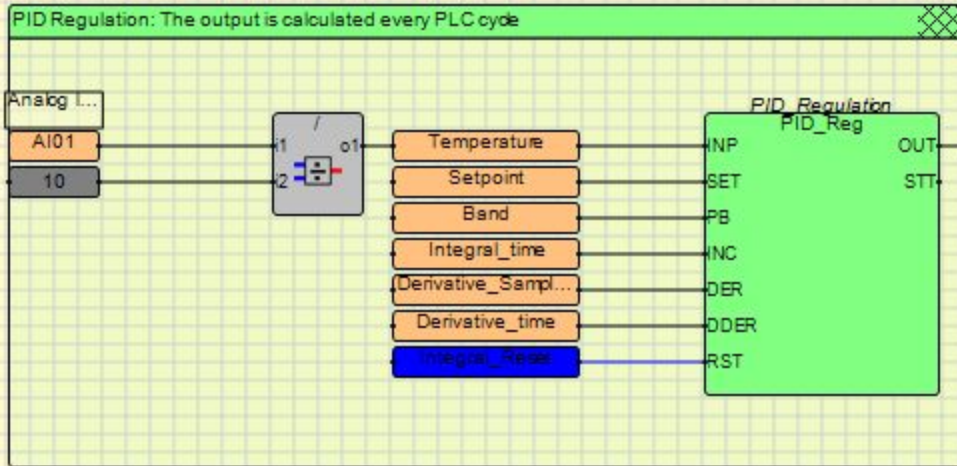(*) POU - Program Organization Unit - Program or Function or Function block.

4. Available Languages

Each POU can be built from one of the standard languages - ST, LD, FBD, SFC.

There is also an option to run in simulation mode, without loading the project to the controller.

Congratulations!

Now you know ISaGRAF basics