IO Device Library

Release v5.04

Allen-Bradley
by ROCKWELL AUTOMATION

Reference Manual

Original Instructions

Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

IMPORTANT Identifies information that is critical for successful application and understanding of the product.

These labels may also be on or inside the equipment to provide specific precautions.

SHOCK HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.

BURN HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

ARC FLASH HAZARD: Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

The following icon may appear in the text of this document.

Identifies information that is useful and can help to make a process easier to do or easier to understand.

Chapter 4

Using Application Code Manager

Using the IO Device Library with Other Application Code Libraries

Chapter 5

Digital Input Modules

Chapter 6

Digital Input Diagnostic Modules

Chapter 7

Digital Output Modules

Chapter 8

Chapter 9

Digital Output Diagnostics Modules

Chapter 10

Digital Input/Output 17x4 Rack Optimized Modules

Chapter 11

Analog Input Modules

Chapter 21

Serial Modules

Chapter 22

Redundant Adapter 1756-EN4TR

Device Object Libraries Overview

Our Device Object Libraries enable you to easily interface with Rockwell Automation intelligent devices like drives, motion, network switches, sensors, IO and more. The libraries contain tested, documented, and lifecycle-managed objects which can be used with machine builder, process, and packaged libraries or as standalone components. Device objects include HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer® software and provide a user interface that seamlessly integrates with the products.

HMI faceplates are standard display files that provide a common user interface. These are HMI pop-up screens used to display detailed information related to a specific instruction or device. In systems that follow ISA 101.1 design guidelines, faceplates are often referred to as Level 4 displays.

Pre-configured Device Objects include an Add-On Instruction Rung and an HMI Faceplate providing the following benefits:

- Collect, Process and Deliver Data between Smart Devices and Application Logic
- Detailed Device Data Collection and Delivery
- Enhanced Device Status and Diagnostics
- Common Control Interfaces maximizing Flexible Automation Device Selection & Application Code Reuse

Device Object Use Cases:

- Basic Device Maintenance and Diagnostics
- Virtual Device Operations for Startup and Commissioning
- Operator and Program Control for Velocity Machine and Process Applications

Device Object Libraries may be downloaded from the Product Compatibility and Download Center. Search for "Library".

Application Code Manager

Studio 5000® Application Code Manager is a tool that can be used with Device Object Libraries to streamline project and machine development. This bulk coding tool allows you to easily design and standardize functionality with reusable application code.

Enable more efficient project development with reusable libraries of code:

- Quickly create and deploy projects through our Application Content Libraries
- Import Rockwell provided application content libraries to expedite system development
- Build your own reusable code that can be managed and deployed across your entire enterprise

- Easily configure objects in bulk with reusable code to increase application development, no additional programming is necessary
- Consolidate content for Studio 5000 Logix Designer®, FactoryTalk® View Studio, FactoryTalk® Alarms & Events, FactoryTalk® Historian to configure an object a single time and generate content for each of those software packages.

See the section on Using the Library with Application Code Manager for more details.

Other Application Code Libraries

This Device Object Library may be used in harmony with other Application Code Libraries including other Device Object Libraries (Network, IO, IO-Link, Safety Device Libraries) or Application Libraries (PlantPAx® Process Objects library, Machine Builder Libraries). All libraries are intended to follow similar design philosophies to provide a consistent experience for operators and maintenance staff.

A complete list of Application Code Libraries from Rockwell Automation® follows.

Item	Description
PlantPAx® Process Library	Rockwell Automation® Library of Process Objects provides application templates, Endress + Hauser library objects, Application Code Manager library objects, and tools and utilities for PlantPAx® DCS applications. Includes the following: • Graphics for built-in instructions • HMI images and Help files • Logix diagnostic objects • Process objects • Control strategies • Sequencer objects • PlantPAx® Configuration Tools for Tags, Alarms and Historian • Color Change • Historian -- Asset Framework template and objects
Machine Builder Libraries	Tested, documented and life-cycle managed library objects and faceplates for use with Studio 5000® Application Code Manager for use primarily with OEM and discrete machine applications.
Common Application Libraries	Commonly used application library objects and faceplates for use with Studio 5000® Application Code Manager including basic functions like unit conversion and data collection.
Independent Cart Technology Libraries	ICT Libraries for iTRAK and MagneMotion including MagneMover LITE and QuickStick for Studio 5000® Application Code Manager
I/O Device Library	Provides objects for Rockwell Automation 1756, 1769, 1734, 1794, 1738, 1732E, 1719, 5069, 5094 I/O modules including pre-configured status and diagnostic faceplates
IO-Link Device Library	Provides IO-Link master and sensor objects including pre-configured status and diagnostic faceplates
Network Device Library	Provides objects for Stratix® switch and Device Level Ring network objects
Power Device Library	Provides objects for discrete, velocity, motion, and power monitor devices
Safety Device Library	Provides safety objects to interface with safety I/O
Condition Monitoring Device Library	Provides Dynamix™ -1444 module and machinery Condition Monitoring applications such as motors and pumps. This includes FactoryTalk View® SE HMI faceplates and Studio 5000® Application Code Manager implementations.
Electrical Protection Device Library	Provides a standard to represent protection devices within your electrical distribution system

Libraries can be accessed from the Product Compatibility and Download Center.

Software and Firmware Upgrades

When you update software or firmware revisions, we recommend that you verify the impact on performance and memory utilization before implementing the upgrade on the production system. For FactoryTalk® View or ControlLogix® platforms, we recommend that you review the release notes and verify the impact of the upgrade on performance and memory utilization.

You can also verify the compatibility of the upgrade with the installed software and operating systems in use on your system. See the Product Compatibility and Download Center.

Rockwell Automation Services and Support

System Support offers technical assistance that is tailored for control systems. Some of the features include the following:

- Highly experienced team of engineers with training and systems experience
- Use of online remote diagnostic tools
- Access to otherwise restricted TechConnect℠ Knowledgebase content
- 24-hour, 7 days per week, 365 days per year of phone-support coverage upgrade option

For more information, contact your local distributor or Rockwell Automation representative or see http://www.rockwellautomation.com/support.

You can view or download publications at http://www.rockwellautomation.com/literature. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Rockwell Automation® IO Device Library

The IO Device Library is a tested, documented, and life cycle managed object library. The Device Library provides pre-configured status and diagnostic faceplates sets for Rockwell Automation® I/O Modules. Additionally, the library includes Studio 5000® Application Code Manager module objects that allow users to easily add and configure I/O in their project. The IO Device Objects may be used with Machine Builder, Process, and Packaged Libraries or as standalone components.

The IO Device Library includes HMI Faceplates for FactoryTalk® View ME, FactoryTalk® View SE, and Studio 5000 View Designer® compatible with Allen-Bradley® I/O modules. This document includes the functional requirements of the IO device objects.

The IO Device Library may be downloaded from the Product Compatibility and Download Center. Search for IO Device Library.

Compatibility

Compatible Software

- Studio 5000 Logix Designer® V30.01.00, v31.02.00, v32.04.00, v33.01.01, v34.01.00 v35.01.00 for PAC Application Development
- Studio 5000® Application Code Manager v4.01 and later for bulk code configuration
- Studio 5000 View Designer® v8.02.00 and later for PanelView™ 5000 Application Development
- FactoryTalk® View Studio v10.00.01 and later for PanelView™ Plus and FactoryTalk® View SE Application Development

Compatible Hardware

- PanelView™ 5500/5510/5310 with v5 or later firmware
- PanelView™ Plus v10 or later firmware
- ControlLogix® 5580/5570, CompactLogix® 5580/5570, GuardLogix® 5580/5570, or Compact GuardLogix® 5580/5570 controller with v30.01 or later firmware. Note GuardLogix® or Compact GuardLogix® controllers are required for use with Safety class I/O modules.
- Allen-Bradley I/O Modules including:
  - 1715 High-Availability I/O
  - 1719 Ex I/O
  - 1732E I/O

- 1734 POINT I/O
- 1738 I/O
- 1756 ControlLogix I/O
- 1756 EN4TR
- 1769 Compact I/O
- 1791ES Guard I/O
- 1794 Flex I/O
- 5015 FLEXHA 5000 I/O
- 5069 Compact 5000 I/O
- 5094 FLEX 5000 I/O
- 5032 Configurable Module I/O

• HART Modules

Note that the 5032-CFGB16M12xxxxx supports Logix Designer v35 or later, 5094-IJ2I/S supports Logix Designer v32 or later, 5069-IF4IH/OF4IH supports Logix Designer v33 or later.

Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

This release consists of new module faceplate and updated ACM Library.

Topic	Revision	Page
Added new Faceplate in 5094 series module	D	Throughout
Added new Faceplate in 5069 series module	D	Throughout
Added 5032 series module	D	Throughout
Updated ACM files for 5069-AENTR and 5069-AEN2TR	D	Throughout
Updated 5094-IF8IH and 5094-OF8IH Faceplates	D	Throughout
Updated Using Application Code Manager for PlantPAx section	D	125

Footprint

Each instruction requires memory footprint within the Logix controller. The following characteristics apply:

- **Definition:** Estimated memory required to store the object definition, including all dependents
- **Instance:** Estimated memory required per object instantiated.
- **Execution (L85E):** Estimated execution time / scan footprint evaluated in 1756-L85E PAC

Device Object Footprint

Device Object	Defintion (kB)	Instance (kB)	Execution (µs)
raC_Dvc_1756_EN4TR	36.22	4.936	95

Library Components

IO Device Library

The IO Device Library includes HMI faceplates to interface with Allen-Bradley® I/O Modules. There are no Add-On Instructions or additional programming required. All HMI faceplates communicate directly with I/O module data structures that are pre-defined in the Logix controllers when the I/O module is defined in a project.

Note: 1756-ENTR includes pre-configured status and diagnostic faceplate with Add-on instruction.

All I/O module faceplates have similar functions. The HMI faceplate displays diagnostic information such as module or channel faults along with I/O channel status and data. HMI tags are also provided for FactoryTalk® View ME/SE projects to support multi-tab navigation.

The IO Device Library also contains Studio 5000® Application Code Manager module objects. This allows users to add Allen-Bradley® I/O Modules, or HART modules to a project in Studio 5000® Application Code Manager.

This manual has grouped faceplates by module type as follows:

- Discrete Input
- Discrete Output
- Analog Input
- Analog Output
- Analog Input with HART
- Analog Output with HART
- Safety Discrete Input
- Safety Discrete Output
- Safety Analog Input
- 1715 Simplex and Duplex I/O
- 5015 Simplex and Duplex I/O
- High Speed Counter
- Sequence of Events
- Rack Optimized
- Redundant adapter

All objects in this library are considered devices:

- Device (Dvc): instruction used for devices (e.g. I/O Modules).

Library Folders and Files

When you extract the library from the downloaded .zip folder, you will find the following folder and file structure. Note that some items are generalized with

TYPE (e.g. Analog, Digital, Communications), *FAMILY* (1756, 5094, etc), *MODULE* (e.g. OB16, IF8, etc) and *SER* (series e.g. A/B/C). The major and minor versions are represented by X and Y respectively.

Level 1	Level 2	Level 3	File Type	Description
Application Example			**Folder**	**Application Example Files**
	Project_IODevice_xxxx_Application_V5_04.xlsx		XLSX	Application Code Manager Project
	IODevice_xxxx_Application_V5_04.ACD		ACD	Logix Designer Example project
	IODeviceApplication_SE_V5_04.apa		APA	FTView SE Project Archive
	IODeviceApplication_ME_V5_04.apa		APA	FTView ME Project Archive
ApplicationCodeManagerLibraries			**Folder**	**Application Code Manager files**
	Attachments (.HZ1 and .txt files)		Folder	ACM Object Attachments
	(RA-LIB)_ACM_2.00_Module_*TYPE*_FAMILY-MODULE_SER_(X.Y).HSL4		HSL4	ACM Module Object
HMI - FactoryTalk View ME			**Folder**	**FactoryTalk® View ME files**
	Displays - gfx		Folder	FT View ME display files
		(raC-X_YY-ME) raC_Dvc_*FAMILY-MODULE*-faceplate.gfx	GFX	Object Faceplate display
	Global Objects - ggfx		Folder	FT View ME Global Object files
		(raC-X-ME) Graphic Symbols - LIBRARY.ggfx	GGFX	Graphic Symbol/Launch Button global objects
		(raC-X-ME) Toolbox - LIBRARY.ggfx	GGFX	Toolbox global objects
HMI - FactoryTalk View SE			**Folder**	**FactoryTalk® View SE Files**
	Displays - gfx		Folder	FT View SE display files
		(raC-X_YY-SE) raC_Dvc_*FAMILY-MODULE*-faceplate.gfx	GFX	Object Faceplate display
	Global Objects - ggfx		Folder	FT View SE Global Object files
		(raC-X-SE) Graphic Symbols - LIBRARY.ggfx	GGFX	Graphic Symbol/Launch Button global objects
		(raC-X-SE) Toolbox - LIBRARY.ggfx	GGFX	Toolbox global objects
HMI - ViewDesigner - vpd			**Folder**	**View Designer Files**
	(raC-X_YY-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd		VPD	Object faceplate and graphic symbol/launch buttons
HMI FactoryTalk View Images - png			**Folder**	**FT View ME/SE image files**
	images.png		PNG	FTView ME/SE images
Reference Manuals			**Folder**	**Manuals**
	DEVICE-RM200x-EN-P.pdf		PDF	Reference manual
Studio 5000 Logix Designer Files-L5X			**Folder**	**Studio 5000 AOI and RUNG Import Files**
	raC_Dvc_EN4TR_5.03_RUNG.L5X		L5X	Object Rung Import
	raC_Dvc_EN4TR_5.03_AOI.L5X		L5X	Object AOI Import
Videos			**Folder**	**How-to and Operational Overview Videos**
	How_To_Import_and_Configure_IO_Objects_in_FTViewME.mp4		MP4	How-to Video
	How_To_Import_and_Configure_IO_Objects_in_FTViewSE.mp4		MP4	How-to Video
	How_To_Configure_IO_Objects_in_ViewDesigner.mp4		MP4	How-to Video
	How_To_Import_and_Configure_IO_Device_Objects_in_ACM.mp4		MP4	How-to Video
	Operational_Overview_of_IO_Device_Faceplate.mp4		MP4	Operational Overview video

FTViewStudio_IOLibrary_Tags_5_00.csv	CSV	FTView ME/SE HMI Tags
ReadMe.txt	TXT	Explanation of setup.cmd
SetUp.cmd	CMD	Application Code Manager setup script to register library

Visualization Files

Each Add-On Instruction or IO-Module has associated visualization files that provide a common user interface. The IO Device Library supports two HMI options each with their own files supplied:

- FactoryTalk® View ME (Machine Edition)
- FactoryTalk® View SE (Site Edition)
- Studio 5000 View Designer®

FactoryTalk® View Visualization Files

You must import these files in the following order:

- Images (.png files)
- Global Objects(.ggfx file type)
- HMI faceplates (.gfx file type)

File Type Abbreviations	FactoryTalk® View ME	FactoryTalk® View SE	Description
Images (.png)	All .png files in the *HMI FactoryTalk® View Images - png* folder. **IMPORTANT:** FactoryTalk® View application renames PNG files when they are imported with a .bmp file extension, but the files retain a .png format.	All .png files in the *HMI FactoryTalk® View Images - png* folder. **IMPORTANT:** FactoryTalk® View application renames PNG files when they are imported with a .bmp file extension, but the files retain a .png format.	Common icons that are used in the Global Objects and standard displays for all objects.
Global objects (.ggfx)	(raC-5-ME) Graphic Symbols - IO Device.ggfx	(raC-5-SE) Graphic Symbols - IO Device.ggfx	Graphic symbols or launch buttons used to open faceplate displays from other displays.
	(raC-5-ME) Toolbox - IO Device.ggfx	(raC-5-SE) Toolbox - IO Device.ggfx	Common objects used across multiple device faceplates.
Standard displays (.gfx)	(raC-5_XX-ME) precedes name of the display.	(raC-5_XX-SE) precedes name of the display.	e.g. (raC-5_00-SE) raC_Dvc_1756-IB16-Faceplate.gfx

Global object files contain Graphic Symbols that are created once and referenced multiple times on multiple displays in an application. When changes are made to a global object, all instances in the application are automatically updated.

Global objects serve two purposes:

- Toolbox files contain common elements that are used to build faceplate displays.
- Graphic Symbols files contain device symbols or launch buttons that you can use to build your application displays. Select the symbol to open the corresponding faceplate display.

Standard display files, commonly called faceplates, provide a common user interface.

A complete list of FactoryTalk® View SE/ME HMI Faceplates is provided below by I/O family.

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1715	(raC-5_01-SE) raC_Dvc_1715_IB16D_Duplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IB16D_Duplex-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1715_IB16D_Simplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IB16D_Simplex-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1715_IF16_AnalogDuplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IF16_AnalogDuplex-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1715_IF16_AnalogSimplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IF16_AnalogSimplex-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1715_IF16_HARTDuplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IF16_HARTDuplex-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1715_IF16_HARTSimplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IF16_HARTSimplex-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1715_OB8DE_Duplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OB8DE_Duplex-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1715_OB8DE_Simplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OB8DE_Simplex-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1715_OF8I_AnalogDuplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OF8I_AnalogDuplex-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1715_OF8I_AnalogSimplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OF8I_AnalogSimplex-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1715_OF8I_HARTDuplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OF8I_HARTDuplex-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1715_OF8I_HARTSimplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OF8I_HARTSimplex-Faceplate.gfx
1719	(raC-5_00-SE) raC_Dvc_1719_IBN8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IBN8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1719_IBN8B-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IBN8B-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1719_IR4B-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IR4B-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1719_IT4B-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IT4B-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1719_OB2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_OB2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1719_OB2L-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_OB2L-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1719_IF4HB-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1719_IF4HB-Faceplate.gfx
1732	(raC-5_00-SE) raC_Dvc_1732E_IB16M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB16M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_IB16M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB16M12R-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_IB16M12W-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB16M12W-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_IB8M8SOER-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB8M8SOER-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_IF4M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IF4M12R-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_IR4IM12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IR4IM12R-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_IT4IM12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IT4IM12R-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_OB16M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OB16M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_OB16M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OB16M12R-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_OB8M8SR-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OB8M8SR-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1732E_OF4M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OF4M12R-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOB4_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOB4_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOB4_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOB4_SafetyTestOutput-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOBV2_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOBV2_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOBV2_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOBV2_SafetyTestOutput-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB16_SafetyTestOutput -Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB16_SafetyTestOutput -Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB8XOB8_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB8XOB8_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB8XOB8_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB8XOB8_SafetyTestOutput-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1732ES_IB8XOBV4_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB8XOBV4_Safety-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1732ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1732ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1734	(raC-5_03-SE) raC_Dvc_1734_IB4D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_IB4D-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1734_IB8S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_IB8S_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1734_IB8S_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_IB8S_SafetyTestOutput-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1734_IE4S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_IE4S_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1734_OB8S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_OB8S_Safety-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IA2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IA2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IA4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IA4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IB2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IB2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IB4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IB4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IB8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IE2C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE2C-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IE2V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE2V-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IE4C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE4C-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IE8C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE8C-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IM2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IM2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IM4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IM4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IR2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IR2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IR2E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IR2E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IT2I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IT2I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IV2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IV2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IV4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IV4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_IV8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IV8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OA2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OA2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OA4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OA4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OB2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OB2E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB2E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OB2EP-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB2EP-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OB4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OB4E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB4E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OB8E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB8E-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1734_OBV2S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_OBV2S_Safety-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OE2C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OE2C-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OE2V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OE2V-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OE4C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OE4C-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OV2E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OV2E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OV4E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OV4E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OV8E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OV8E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OW2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OW2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OW4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OW4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1734_OX2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OX2-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1734_8CFG-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734_8CFG-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1734sc_IE2CH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_IE2CH-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1734sc_IE4CH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_IE4CH-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1734sc_IF4U-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_IF4U-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1734sc_OE2CIH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_OE2CIH-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1734/1794 Rack Optimized Connections	(raC-5_01-SE) raC_Dvc_17x4_xx2-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_17x4_xx2-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_17x4_xx4-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_17x4_xx4-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_17x4_xx8-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_17x4_xx8-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_17x4_xx16-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_17x4_xx16-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_17x4_xx32-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_17x4_xx32-Faceplate.gfx
1738	(raC-5_00-SE) raC_Dvc_1738_IA2M12AC3-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IA2M12AC3-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IA2M12AC4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IA2M12AC4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IB2M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB2M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IB4M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB4M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IB4M8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB4M8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IB8M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB8M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IB8M23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB8M23-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IB8M8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB8M8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IE2CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IE2CM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IE2VM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IE2VM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IE4CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IE4CM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IR2M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IR2M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IT2IM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IT2IM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IV4M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV4M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IV8M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV8M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IV8M23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV8M23-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_IV8M8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV8M8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OA2M12AC3-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OA2M12AC3-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB16E19M23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB16E19M23-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB16E25DS-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB16E25DS-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB16EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB16EM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB2EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB2EM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB2EPM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB2EPM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB4EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB4EM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB4EM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB4EM8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB8EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB8EM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB8EM23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB8EM23-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OB8EM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB8EM8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OE2CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OE2CM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OE2VM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OE2VM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OE4CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OE4CM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OV4EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OV4EM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OW4M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OW4M12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1738_OW4M12AC-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OW4M12AC-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	(raC-5_03-SE) raC_Dvc_1756_HSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_HSC-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IA16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IA16I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IA32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IA32-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756_IA8D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IA8D-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IB16-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_IB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IB16D-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IB16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IB16I-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_IB16ISOE-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IB16ISOE-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_IB16S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IB16S_Safety-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IB32-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IC16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IC16-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IF16_Differential-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF16_Differential-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IF16_SingleEnded-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF16_SingleEnded-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756_IF16H-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_IF16H-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IF4FXOF2F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF4FXOF2F-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IF6CIS-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF6CIS-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IF6I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF6I-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IF8_Differential-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF8_Differential-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IF8_SingleEnded-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF8_SingleEnded-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756_IF8H-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_IF8H-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IF8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF8I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IG16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IH16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IH16I-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_IH16ISOE-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IH16ISOE-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IM16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IM16I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IN16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IN16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IR12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IR12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IR6I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IR6I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IRT8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IRT8I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IT16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IT16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IT6I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IT6I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IV16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_IV32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IV32-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	(raC-5_00-SE) raC_Dvc_1756_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OA16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OA16I-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756_OA8D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OA8D-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OA8E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OA8E-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_OB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OB16D-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB16E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB16IEF-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16IEF-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB16IEFS-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16IEFS-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB32-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB8EI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB8EI-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OB8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB8I-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_OBV8S_SafetyBipolar-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OBV8S_SafetyBipolar-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_OBV8S_SafetySourcing-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OBV8S_SafetySourcing-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OC8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OC8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OF6xI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF6xI-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OF6CI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF6CI-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OF6VI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF6VI-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF8-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1756_OF8H-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OF8H-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756_OF8I-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_OF8I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OG16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_ON8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_ON8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OV16E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OV16E-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1756_OV32E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OV32E-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IB16IF-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IB16IF-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IF16IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF16IH-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF8IH-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_IT6I2-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IT6I2-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756_OA8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OA8-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_OB16IS-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OB16IS-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_OF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OF8IH-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_OH8I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OH8I-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_OW16I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OW16I-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756_OX8I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OX8I-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1756sc_IC32-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756sc_IC32-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756sc_IF8U-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756sc_IF8U-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1756_EN4TR-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_EN4TR-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1769	(raC-5_01-SE) raC_Dvc_1769_ASCII-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1769_ASCII-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1769_HSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1769_HSC-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IA8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IA8I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IF16C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF16C-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IF16V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF16V-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IF4FX0F2F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4FX0F2F-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IF4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IF4X0F2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4X0F2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IG16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IM12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IQ16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IQ16F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ16F-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IQ32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ32-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IQ32T-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ32T-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IQ6X0W4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ6X0W4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IR6-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IR6-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_IT6-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IT6-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OA8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OA8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OB16P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB16P-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB32-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OB32T-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB32T-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OF2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OF4CI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF4CI-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OF4VI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF4VI-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OF8C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF8C-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OF8V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF8V-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OG16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OV16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OV32T-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OV32T-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OW16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OW16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OW8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OW8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1769_OW8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OW8I-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1769sc_IF4IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IF4IH-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1769sc_IF8U-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IF8U-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1769sc_IR6I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IR6I-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1769sc_IT6I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IT6I-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1769sc_OF4IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_OF4IH-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1791ES	(raC-5_01-SE) raC_Dvc_1791ES_IB16_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB16_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1791ES_IB16_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB16_SafetyTestOutput-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1791ES_IB8XOBV4_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB8XOBV4_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1791ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1794	(raC-5_01-SE) raC_Dvc_1794_IB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1794_IB16D-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_1794_OB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1794_OB16D-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1794_VHSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1794_VHSC-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IA8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IA8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IA8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IA8I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IB10XOB6-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB10XOB6-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IB16XOB16P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB16XOB16P-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB32-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IC16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IC16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IE12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IE4XOE2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE4XOE2-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IE8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IE8XOE4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE8XOE4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IF2XOF2I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IF2XOF2I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IF4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IF4I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IG16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IH16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IH16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IM16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IM16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IM8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IR8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IR8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IRT8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IRT8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IT8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IT8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IV16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_IV32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IV32-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OA8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OA8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OA8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OA8I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OB16P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB16P-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OB32P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB32P-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OB8EP-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB8EP-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OC16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OC16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OE12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OE12-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OE4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OE4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OF4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OF4I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OG16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OM16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OM16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OM8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OV16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OV16P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OV16P-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OV32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OV32-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_1794_OW8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OW8-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1794_IB10XOB6_Rack-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IB10XOB6_Rack-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1794_IB16XOB16P_Rack-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IB16XOB16P_Rack-Faceplate.gfx

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
	(raC-5_03-SE) raC_Dvc_1794_IF4ICF-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IF4ICF-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1794_IF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IF8IH-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1794_IF8IHNF-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1794_IF8IHNF-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_1794_OF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_OF8IH-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1794sc_IF8IU-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794sc_IF8IU-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_1794sc_IRT8I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794sc_IRT8I-Faceplate.gfx
5015	(raC-5_01-SE) raC_Dvc_5015_U8IHFTXT_Simplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5015_U8IHFTXT_Simplex-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_5015_U8IHFTXT_Duplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5015_U8IHFTXT_Duplex-Faceplate.gfx
5069	(raC-5_01-SE) raC_Dvc_5069_HSC2XOB4-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_HSC2XOB4-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_5069_IB8S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_IB8S_Safety-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_5069_IB8S_SafetyMuting-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_IB8S_SafetyMuting-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_5069_OBV8S_SafetyBipolar-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_OBV8S_SafetyBipolar-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_5069_OBV8S_SafetySourcing-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_OBV8S_SafetySourcing-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_50x_SERIAL_MBSlave-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBSlave-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_IA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IB16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_IB16F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IB16F-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_IB6F_3W-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IB6F_3W-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_IF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IF8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_IY4-IR-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IY4-IR-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OA16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OB16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OB16F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OB16F-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OB8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OF4-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OF8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OW16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OW16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OW4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OW4I-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5069_OX4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OX4I-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5069_IF4IH_HART-Faceplate	(raC-5_04-ME) raC_Dvc_5069_IF4IH_HART-Faceplate
	(raC-5_04-SE) raC_Dvc_5069_IF4IH_PlantPAx-Faceplate	(raC-5_04-ME) raC_Dvc_5069_IF4IH_PlantPAx-Faceplate
	(raC-5_04-SE) raC_Dvc_5069_OF4IH_HART-Faceplate	(raC-5_04-ME) raC_Dvc_5069_OF4IH_HART-Faceplate
	(raC-5_04-SE) raC_Dvc_5069_OF4IH_PlantPAx-Faceplate	(raC-5_04-ME) raC_Dvc_5069_OF4IH_PlantPAx-Faceplate

Family	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
5094	(raC-5_01-SE) raC_Dvc_5094_HSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_HSC-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_5094_IB16S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_IB16S_Safety-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5094_IF8IH_HART-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IF8IH_HART-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5094_IF8IH_PlantPAx-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IF8IH_PlantPAx-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_5094_OB16S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_OB16S_Safety-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5094_OF8IH_HART-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_OF8IH_HART-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5094_OF8IH_PlantPAx-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_OF8IH_PlantPAx-Faceplate.gfx
	(raC-5_01-SE) raC_Dvc_5094_OW4IS_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_OW4IS_Safety-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5094_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_IB16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5094_IF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_IF8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5094_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_OB16-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5094_OF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_OF8-Faceplate.gfx
	(raC-5_00-SE) raC_Dvc_5094_OW8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_OW8I-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_50x_SERIAL_MBSlave-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBSlave-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_5094_IA16-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IA16-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_5094_IB32-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_5094_IB32-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_5094_IM8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IM8-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_5094_IY8_IR-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IY8_IR-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_5094_IY8_IT-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IY8_IT-Faceplate.gfx
	(raC-5_02-SE) raC_Dvc_5094_OA16-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_OA16-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_5094_OB32-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_5094_OB32-Faceplate.gfx
	(raC-5_03-SE) raC_Dvc_5094_OB8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_OB8-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5094_IJ2I-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IJ2I-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5094_IJ2IS-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IJ2IS-Faceplate.gfx
5032	(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_IN_16Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_IN_16Pt-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_IN_8Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_IN_8Pt-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_16Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_16Pt-Faceplate.gfx
	(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_8Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_8Pt-Faceplate.gfx

Studio 5000 View Designer® Visualization Files

A View Designer project file for each I/O family is supplied which contain faceplates and launch buttons for the IO Device Library. These files are found in the *HMI - ViewDesigner - vpd* folder. Inside of the VPD file you will find a the required display files inside of the *User-Defined Screens* folder.

A complete list of View Designer files follows:

Family	View Designer File	View Designer Screen
1715	raC_Dvc_1715IO_wDesc.vpd	raC_Dvc_1715-IB16D_Duplex_wDesc_FP
		raC_Dvc_1715-IB16D_Simplex_wDesc_FP
		raC_Dvc_1715-IF16_AnalogDuplex_wDesc_FP
		raC_Dvc_1715-IF16_AnalogSimplex_wDesc_FP
		raC_Dvc_1715-IF16_HARTDuplex_wDesc_FP
		raC_Dvc_1715-IF16_HARTSimplex_wDesc_FP
		raC_Dvc_1715-OB8DE_Duplex_wDesc_FP
		raC_Dvc_1715-OB8DE_Simplex_wDesc_FP
		raC_Dvc_1715-OF8I_AnalogDuplex_wDesc_FP
		raC_Dvc_1715-OF8I_AnalogSimplex_wDesc_FP
		raC_Dvc_1715-OF8I_HARTDuplex_wDesc_FP
		raC_Dvc_1715-OF8I_HARTSimplex_wDesc_FP
1719	raC_Dvc_1719IO_wDesc.vpd	raC_Dvc_1719-IBN8_wDesc_FP
		raC_Dvc_1719-IBN8B_wDesc_FP
		raC_Dvc_1719-IF4HB_wDesc_FP
		raC_Dvc_1719-IR4B_wDesc_FP
		raC_Dvc_1719-IT4B_wDesc_FP
		raC_Dvc_1719-OB2_wDesc_FP
		raC_Dvc_1719-OB2L_wDesc_FP
1732	raC_Dvc_1732IO_wDesc.vpd	raC_Dvc_1732E-IB16M12_wDesc_FP
		raC_Dvc_1732E-IB16M12R_wDesc_FP
		raC_Dvc_1732E-IB16M12W_wDesc_FP
		raC_Dvc_1732E-IB8M8SOER_wDesc_FP
		raC_Dvc_1732E-IF4M12R_wDesc_FP
		raC_Dvc_1732E-IR4IM12R_wDesc_FP
		raC_Dvc_1732E-IT4IM12R_wDesc_FP
		raC_Dvc_1732E-OB16M12_wDesc_FP
		raC_Dvc_1732E-OB16M12R_wDesc_FP
		raC_Dvc_1732E-OB8M8SR_wDesc_FP
		raC_Dvc_1732E-OF4M12R_wDesc_FP
		raC_Dvc_1732ES-IB12XOB4_Safety_wDesc_FP
		raC_Dvc_1732ES-IB12XOB4_SafetyTestOutput_wDesc_FP
		raC_Dvc_1732ES-IB12XOBV2_Safety_wDesc_FP
		raC_Dvc_1732ES-IB12XOBV2_SafetyTestOutput_wDesc_FP
		raC_Dvc_1732ES-IB16_SafetyTestOutput _wDesc_FP
		raC_Dvc_1732ES-IB8XOB8_Safety_wDesc_FP
		raC_Dvc_1732ES-IB8XOB8_SafetyTestOutput_wDesc_FP
		raC_Dvc_1732ES-IB8XOBV4_Safety_wDesc_FP
		raC_Dvc_1732ES-IB8XOBV4_SafetyTestOutput_wDesc_FP

Family	View Designer File	View Designer Screen
1734	raC_Dvc_1734IO_wDesc.vpd	raC_Dvc_1734-IB4D_wDesc_FP
		raC_Dvc_1734-IB8S_Safety_wDesc_FP
		raC_Dvc_1734-IB8S_SafetyTestOutput_wDesc_FP
		raC_Dvc_1734-IE4S_Safety_wDesc_FP
		raC_Dvc_1734-OB8S_Safety_wDesc_FP
		raC_Dvc_1734-IA2_wDesc_FP
		raC_Dvc_1734-IA4_wDesc_FP
		raC_Dvc_1734-IB2_wDesc_FP
		raC_Dvc_1734-IB4_wDesc_FP
		raC_Dvc_1734-IB8_wDesc_FP
		raC_Dvc_1734-IE2C_wDesc_FP
		raC_Dvc_1734-IE2V_wDesc_FP
		raC_Dvc_1734-IE4C_wDesc_FP
		raC_Dvc_1734-IE8C_wDesc_FP
		raC_Dvc_1734-IM2_wDesc_FP
		raC_Dvc_1734-IM4_wDesc_FP
		raC_Dvc_1734-IR2_wDesc_FP
		raC_Dvc_1734-IR2E_wDesc_FP
		raC_Dvc_1734-IT2I_wDesc_FP
		raC_Dvc_1734-IV2_wDesc_FP
		raC_Dvc_1734-IV4_wDesc_FP
		raC_Dvc_1734-IV8_wDesc_FP
		raC_Dvc_1734-OA2_wDesc_FP
		raC_Dvc_1734-OA4_wDesc_FP
		raC_Dvc_1734-OB2_wDesc_FP
		raC_Dvc_1734-OB2E_wDesc_FP
		raC_Dvc_1734-OB2EP_wDesc_FP
		raC_Dvc_1734-OB4_wDesc_FP
		raC_Dvc_1734-OB4E_wDesc_FP
		raC_Dvc_1734-OB8_wDesc_FP
		raC_Dvc_1734-OB8E_wDesc_FP
		raC_Dvc_1734-OBV2S_wDesc_FP
		raC_Dvc_1734-OE2C_wDesc_FP
		raC_Dvc_1734-OE2V_wDesc_FP
		raC_Dvc_1734-OE4C_wDesc_FP
		raC_Dvc_1734-OV2E_wDesc_FP
		raC_Dvc_1734-OV4E_wDesc_FP
		raC_Dvc_1734-OV8E_wDesc_FP
		raC_Dvc_1734-OW2_wDesc_FP
		raC_Dvc_1734-OW4_wDesc_FP
		raC_Dvc_1734-OX2_wDesc_FP
		raC_Dvc_1734sc_IE2CH_wDesc_FP
		raC_Dvc_1734sc_IE4CH_wDesc_FP
		raC_Dvc_1734sc_IF4U_wDesc_FP
		raC_Dvc_1734sc_OE2CIH_wDesc_FP
		raC_Dvc_1734_8CFG_wDesc_FP

Family	View Designer File	View Designer Screen
1734/1794 Rack Optimized Connections	raC_Dvc_1734IO_wDesc.vpd or raC_Dvc_1794IO_wDesc.vpd	raC_Dvc_17X4-xx2_wDesc_FP
		raC_Dvc_17X4-xx4_wDesc_FP
		raC_Dvc_17X4-xx8_wDesc_FP
		raC_Dvc_17X4-xx16_wDesc_FP
		raC_Dvc_17X4-xx32_wDesc_FP
1738	raC_Dvc_1738IO_wDesc.vpd	raC_Dvc_1738-IA2M12AC3_wDesc_FP
		raC_Dvc_1738-IA2M12AC4_wDesc_FP
		raC_Dvc_1738-IB2M12_wDesc_FP
		raC_Dvc_1738-IB4M12_wDesc_FP
		raC_Dvc_1738-IB4M8_wDesc_FP
		raC_Dvc_1738-IB8M12_wDesc_FP
		raC_Dvc_1738-IB8M23_wDesc_FP
		raC_Dvc_1738-IB8M8_wDesc_FP
		raC_Dvc_1738-IE2CM12_wDesc_FP
		raC_Dvc_1738-IE2VM12_wDesc_FP
		raC_Dvc_1738-IE4CM12_wDesc_FP
		raC_Dvc_1738-IR2M12_wDesc_FP
		raC_Dvc_1738-IT2IM12_wDesc_FP
		raC_Dvc_1738-IV4M12_wDesc_FP
		raC_Dvc_1738-IV8M12_wDesc_FP
		raC_Dvc_1738-IV8M23_wDesc_FP
		raC_Dvc_1738-IV8M8_wDesc_FP
		raC_Dvc_1738-OA2M12AC3_wDesc_FP
		raC_Dvc_1738-OB16E19M23_wDesc_FP
		raC_Dvc_1738-OB16E25DS_wDesc_FP
		raC_Dvc_1738-OB16EM12_wDesc_FP
		raC_Dvc_1738-OB2EM12_wDesc_FP
		raC_Dvc_1738-OB2EPM12_wDesc_FP
		raC_Dvc_1738-OB4EM12_wDesc_FP
		raC_Dvc_1738-OB4EM8_wDesc_FP
		raC_Dvc_1738-OB8EM12_wDesc_FP
		raC_Dvc_1738-OB8EM23_wDesc_FP
		raC_Dvc_1738-OB8EM8_wDesc_FP
		raC_Dvc_1738-OE2CM12_wDesc_FP
		raC_Dvc_1738-OE2VM12_wDesc_FP
		raC_Dvc_1738-OE4CM12_wDesc_FP
		raC_Dvc_1738-OV4EM12_wDesc_FP
		raC_Dvc_1738-OW4M12_wDesc_FP
		raC_Dvc_1738-OW4M12AC_wDesc_FP

Family	View Designer File	View Designer Screen
1756	raC_Dvc_1756IO_Input_wDesc.vpd	raC_Dvc_1756-HSC_wDesc_FP
		raC_Dvc_1756-IA16_wDesc_FP
		raC_Dvc_1756-IA16I_wDesc_FP
		raC_Dvc_1756-IA32_wDesc_FP
		raC_Dvc_1756-IA8D_wDesc_FP
		raC_Dvc_1756-IB16_wDesc_FP
		raC_Dvc_1756-IB16D_wDesc_FP
		raC_Dvc_1756-IB16I_wDesc_FP
		raC_Dvc_1756-IB16IF_wDesc_FP
		raC_Dvc_1756-IB16ISOE_wDesc_FP
		raC_Dvc_1756-IB16S_Safety_wDesc_FP
		raC_Dvc_1756-IB32_wDesc_FP
		raC_Dvc_1756-IC16_wDesc_FP
		raC_Dvc_1756-IF16_wDesc_FP
		raC_Dvc_1756-IF16H_wDesc_FP
		raC_Dvc_1756-IF16IH_wDesc_FP
		raC_Dvc_1756-IF4FXOF2F_wDesc_FP
		raC_Dvc_1756-IF6CIS_wDesc_FP
		raC_Dvc_1756-IF6I_wDesc_FP
		raC_Dvc_1756-IF8_wDesc_FP
		raC_Dvc_1756-IF8H_wDesc_FP
		raC_Dvc_1756-IF8I_wDesc_FP
		raC_Dvc_1756-IF8IH_wDesc_FP
		raC_Dvc_1756-IG16_wDesc_FP
		raC_Dvc_1756-IH16I_wDesc_FP
		raC_Dvc_1756-IH16ISOE_wDesc_FP
		raC_Dvc_1756-IM16I_wDesc_FP
		raC_Dvc_1756-IN16_wDesc_FP
		raC_Dvc_1756-IR12_wDesc_FP
		raC_Dvc_1756-IR6I_wDesc_FP
		raC_Dvc_1756-IRT8I_wDesc_FP
		raC_Dvc_1756-IT16_wDesc_FP
		raC_Dvc_1756-IT6I_wDesc_FP
		raC_Dvc_1756-IT6I2_wDesc_FP
		raC_Dvc_1756-IV16_wDesc_FP
		raC_Dvc_1756-IV32_wDesc_FP

Family	View Designer File	View Designer Screen
1756	raC_Dvc_1756IO_Output_wDesc.vpd	raC_Dvc_1756-OA16_wDesc_FP
		raC_Dvc_1756-OA16I_wDesc_FP
		raC_Dvc_1756-OA8D_wDesc_FP
		raC_Dvc_1756-OA8E_wDesc_FP
		raC_Dvc_1756-OB16D_wDesc_FP
		raC_Dvc_1756-OB16E_wDesc_FP
		raC_Dvc_1756-OB16I_wDesc_FP
		raC_Dvc_1756-OB16IEF_wDesc_FP
		raC_Dvc_1756-OB16IEFS_wDesc_FP
		raC_Dvc_1756-OB32_wDesc_FP
		raC_Dvc_1756-OB8_wDesc_FP
		raC_Dvc_1756-OB8EI_wDesc_FP
		raC_Dvc_1756-OB8I_wDesc_FP
		raC_Dvc_1756-OBV8S_SafetyBipolar_wDesc_FP
		raC_Dvc_1756-OBV8S_SafetySourcing_wDesc_FP
		raC_Dvc_1756-OC8_wDesc_FP
		raC_Dvc_1756-OF4_wDesc_FP
		raC_Dvc_1756-OF6xI_wDesc_FP
		raC_Dvc_1756-OF6CI_wDesc_FP
		raC_Dvc_1756-OF6VI_wDesc_FP
		raC_Dvc_1756-OF8_wDesc_FP
		raC_Dvc_1756-OF8H_wDesc_FP
		raC_Dvc_1756-OF8I_wDesc_FP
		raC_Dvc_1756-OG16_wDesc_FP
		raC_Dvc_1756-OH8I_wDesc_FP
		raC_Dvc_1756-ON8_wDesc_FP
		raC_Dvc_1756-OV16E_wDesc_FP
		raC_Dvc_1756-OV32E_wDesc_FP
		raC_Dvc_1756-OW16I_wDesc_FP
		raC_Dvc_1756-OX8I_wDesc_FP
		raC_Dvc_1756sc_IC32_wDesc_FP
		raC_Dvc_1756sc_IF8U_wDesc_FP
		raC_Dvc_1756_OA8_wDesc_FP
		raC_Dvc_1756_OB16IS_wDesc_FP
		raC_Dvc_1756-OF8IH_wDesc_FP
		raC_Dvc_1756-EN4TR_FP

Family	View Designer File	View Designer Screen
1769	raC_Dvc_1769IO_wDesc.vpd	raC_Dvc_1769-ASCII_wDesc_FP
		raC_Dvc_1769-HSC_wDesc_FP
		raC_Dvc_1769-IA16_wDesc_FP
		raC_Dvc_1769-IA8I_wDesc_FP
		raC_Dvc_1769-IF16C_wDesc_FP
		raC_Dvc_1769-IF16V_wDesc_FP
		raC_Dvc_1769-IF4_wDesc_FP
		raC_Dvc_1769-IF4FXOF2F_wDesc_FP
		raC_Dvc_1769-IF4I_wDesc_FP
		raC_Dvc_1769-IF4XOF2_wDesc_FP
		raC_Dvc_1769-IF8_wDesc_FP
		raC_Dvc_1769-IG16_wDesc_FP
		raC_Dvc_1769-IM12_wDesc_FP
		raC_Dvc_1769-IQ16_wDesc_FP
		raC_Dvc_1769-IQ16F_wDesc_FP
		raC_Dvc_1769-IQ32_wDesc_FP
		raC_Dvc_1769-IQ32T_wDesc_FP
		raC_Dvc_1769-IQ6XOW4_wDesc_FP
		raC_Dvc_1769-IR6_wDesc_FP
		raC_Dvc_1769-IT6_wDesc_FP
		raC_Dvc_1769-OA16_wDesc_FP
		raC_Dvc_1769-OA8_wDesc_FP
		raC_Dvc_1769-OB16_wDesc_FP
		raC_Dvc_1769-OB16P_wDesc_FP
		raC_Dvc_1769-OB32_wDesc_FP
		raC_Dvc_1769-OB32T_wDesc_FP
		raC_Dvc_1769-OB8_wDesc_FP
		raC_Dvc_1769-OF2_wDesc_FP
		raC_Dvc_1769-OF4_wDesc_FP
		raC_Dvc_1769-OF4CI_wDesc_FP
		raC_Dvc_1769-OF4VI_wDesc_FP
		raC_Dvc_1769-OF8C_wDesc_FP
		raC_Dvc_1769-OF8V_wDesc_FP
		raC_Dvc_1769-OG16_wDesc_FP
		raC_Dvc_1769-OV16_wDesc_FP
		raC_Dvc_1769-OV32T_wDesc_FP
		raC_Dvc_1769-OW16_wDesc_FP
		raC_Dvc_1769-OW8_wDesc_FP
		raC_Dvc_1769-OW8I_wDesc_FP
		raC_Dvc_1769sc_IF4IH_wDesc_FP
		raC_Dvc_1769sc_IF8U_wDesc_FP
		raC_Dvc_1769sc_IR6I_wDesc_FP
		raC_Dvc_1769sc_IT6I_wDesc_FP
		raC_Dvc_1769sc_OF4IH_wDesc_FP

Family	View Designer File	View Designer Screen
1791ES	raC_Dvc_1791IEO_wDesc.vpd	raC_Dvc_1791ES-IB16_Safety_wDesc_FP
		raC_Dvc_1791ES-IB16_SafetyTestOutput_wDesc_FP
		raC_Dvc_1791ES-IB8XOBV4_Safety_wDesc_FP
		raC_Dvc_1791ES-IB8XOBV4_SafetyTestOutput_wDesc_FP

Family	View Designer File	View Designer Screen
1794	raC_Dvc_1794IO_Input_wDesc.vpd	raC_Dvc_1794-IB16D_wDesc_FP
		raC_Dvc_1794-IA16_wDesc_FP
		raC_Dvc_1794-IA8_wDesc_FP
		raC_Dvc_1794-IA8I_wDesc_FP
		raC_Dvc_1794-IB10XOB6_wDesc_FP
		raC_Dvc_1794-IB16_wDesc_FP
		raC_Dvc_1794-IB16XOB16P_wDesc_FP
		raC_Dvc_1794-IB32_wDesc_FP
		raC_Dvc_1794-IB8_wDesc_FP
		raC_Dvc_1794-IC16_wDesc_FP
		raC_Dvc_1794-IE12_wDesc_FP
		raC_Dvc_1794-IE4XOE2_wDesc_FP
		raC_Dvc_1794-IE8_wDesc_FP
		raC_Dvc_1794-IE8XOE4_wDesc_FP
		raC_Dvc_1794-IF2XOF2I_wDesc_FP
		raC_Dvc_1794-IF4I_wDesc_FP
		raC_Dvc_1794-IG16_wDesc_FP
		raC_Dvc_1794-IH16_wDesc_FP
		raC_Dvc_1794-IM16_wDesc_FP
		raC_Dvc_1794-IM8_wDesc_FP
		raC_Dvc_1794-IR8_wDesc_FP
		raC_Dvc_1794-IRT8_wDesc_FP
		raC_Dvc_1794-IT8_wDesc_FP
		raC_Dvc_1794-IV16_wDesc_FP
		raC_Dvc_1794-IV32_wDesc_FP
		raC_Dvc_1794_IF4ICF_wDesc_FP
		raC_Dvc_1794_IF8IH_wDesc_FP
		raC_Dvc_1794_IF8IHNF_wDesc_FP
		raC_Dvc_1794sc_IF8IU_wDesc_FP
		raC_Dvc_1794sc_IRT8I_wDesc_FP
	raC_Dvc_1794IO_Output_wDesc.vpd	raC_Dvc_1794-OA16_wDesc_FP
		raC_Dvc_1794-OA8_wDesc_FP
		raC_Dvc_1794-OA8I_wDesc_FP
		raC_Dvc_1794-OB16_wDesc_FP
		raC_Dvc_1794-OB16P_wDesc_FP
		raC_Dvc_1794-OB32P_wDesc_FP
		raC_Dvc_1794-OB8_wDesc_FP
		raC_Dvc_1794-OB8EP_wDesc_FP
		raC_Dvc_1794-OC16_wDesc_FP
		raC_Dvc_1794-OE12_wDesc_FP
		raC_Dvc_1794-OE4_wDesc_FP
		raC_Dvc_1794-OF4I_wDesc_FP
		raC_Dvc_1794-OG16_wDesc_FP
		raC_Dvc_1794-OM16_wDesc_FP
		raC_Dvc_1794_VHSC_wDesc_FP
		raC_Dvc_1794-OM8_wDesc_FP
		raC_Dvc_1794_OB16D_wDesc_FP
		raC_Dvc_1794-OV16_wDesc_FP

Family	View Designer File	View Designer Screen
		raC_Dvc_1794_OV16_wDesc_FP
		raC_Dvc_1794_OV16P_wDesc_FP
		raC_Dvc_1794_OV32_wDesc_FP
		raC_Dvc_1794_OW8_wDesc_FP
		raC_Dvc_1794_OF8IH_wDesc_FP
5015	raC_Dvc_5015IO_wDesc.vpd	raC_Dvc_5015-U8IHFTXT_Simplex_wDesc_FP
		raC_Dvc_5015-U8IHFTXT_Duplex_wDesc_FP
5069	raC_Dvc_5069IO_wDesc.vpd	raC_Dvc_5069_HSC_wDesc_FP
		raC_Dvc_5069_IB8S_Safety_wDesc_FP
		raC_Dvc_5069_IB8S_SafetyMuting_wDesc_FP
		raC_Dvc_5069_OBV8S_SafetyBip_wDesc_FP
		raC_Dvc_5069_OBV8S_SafetySrc_wDesc_FP
		raC_Dvc_5069_SERIAL_ASCII_wDesc_FP
		raC_Dvc_5069_SERIAL_MBMaster_wDesc_FP
		raC_Dvc_5069_SERIAL_MBSlave_wDesc_FP
		raC_Dvc_5069_IA16_wDesc_FP
		raC_Dvc_5069_IB16_wDesc_FP
		raC_Dvc_5069_IB16F_wDesc_FP
		raC_Dvc_5069_IB6F-3W_wDesc_FP
		raC_Dvc_5069_IF8_wDesc_FP
		raC_Dvc_5069_IY4_wDesc_FP
		raC_Dvc_5069_OA16_wDesc_FP
		raC_Dvc_5069_OB16_wDesc_FP
		raC_Dvc_5069_OB16F_wDesc_FP
		raC_Dvc_5069_OB8_wDesc_FP
		raC_Dvc_5069_OF4_wDesc_FP
		raC_Dvc_5069_OF8_wDesc_FP
		raC_Dvc_5069_OW16_wDesc_FP
		raC_Dvc_5069_OW4I_wDesc_FP
		raC_Dvc_5069_OX4I_wDesc_FP
		raC_Dvc_5069_IF4IH_HART_wDesc_FP
		raC_Dvc_5069_IF4IH_PlantPAx_wDesc_FP
		raC_Dvc_5069_OF4IH_HART_wDesc_FP
		raC_Dvc_5069_OF4IH_PlantPAx_wDesc_FP

Family	View Designer File	View Designer Screen
5094	raC_Dvc_5094IO_wDesc.vpd	raC_Dvc_5094-HSC_wDesc_FP
		raC_Dvc_5094-IB16S_Safety_wDesc_FP
		raC_Dvc_5094-IF8IH_HART_wDesc_FP
		raC_Dvc_5094-IF8IH_PlantPAx_wDesc_FP
		raC_Dvc_5094-OB16S_Safety_wDesc_FP
		raC_Dvc_5094-OF8IH_HART_wDesc_FP
		raC_Dvc_5094-OF8IH_PlantPAx_wDesc_FP
		raC_Dvc_5094-OW4IS_Safety_wDesc_FP
		raC_Dvc_5094-IB16_wDesc_FP
		raC_Dvc_5094-IF8_wDesc_FP
		raC_Dvc_5094-OB16_wDesc_FP
		raC_Dvc_5094-OF8_wDesc_FP
		raC_Dvc_5094-OW8I_wDesc_FP
		raC_Dvc_5094-SERIAL_ASCII_wDesc_FP
		raC_Dvc_5094-SERIAL_MBMaster_wDesc_FP
		raC_Dvc_5094-SERIAL_MBSlave_wDesc_FP
		raC_Dvc_5094_IY8_IR_wDesc_FP
		raC_Dvc_5094_IY8_IT_wDesc_FP
		raC_Dvc_5094_IA16_wDesc_FP
		raC_Dvc_5094_IB32_wDesc_FP
		raC_Dvc_5094_IM8_wDesc_FP
		raC_Dvc_5094_OA16_wDesc_FP
		raC_Dvc_5094_OB32_wDesc_FP
		raC_Dvc_5094_OB8_wDesc_FP
		raC_Dvc_5094_IJ2I_wDesc_FP
		raC_Dvc_5094_IJ2IS_wDesc_FP
5032	raC_Dvc_5032IO_wDesc.vpd	raC_Dvc_5032_CFGB16M12xx_IN_16Pt_Des_FP
		raC_Dvc_5032_CFGB16M12xx_IN_8Pt_Des_FP
		raC_Dvc_5032_CFGB16M12xx_OUT_16Pt_Des_FP
		raC_Dvc_5032_CFGB16M12xx_OUT_8Pt_Des_FP

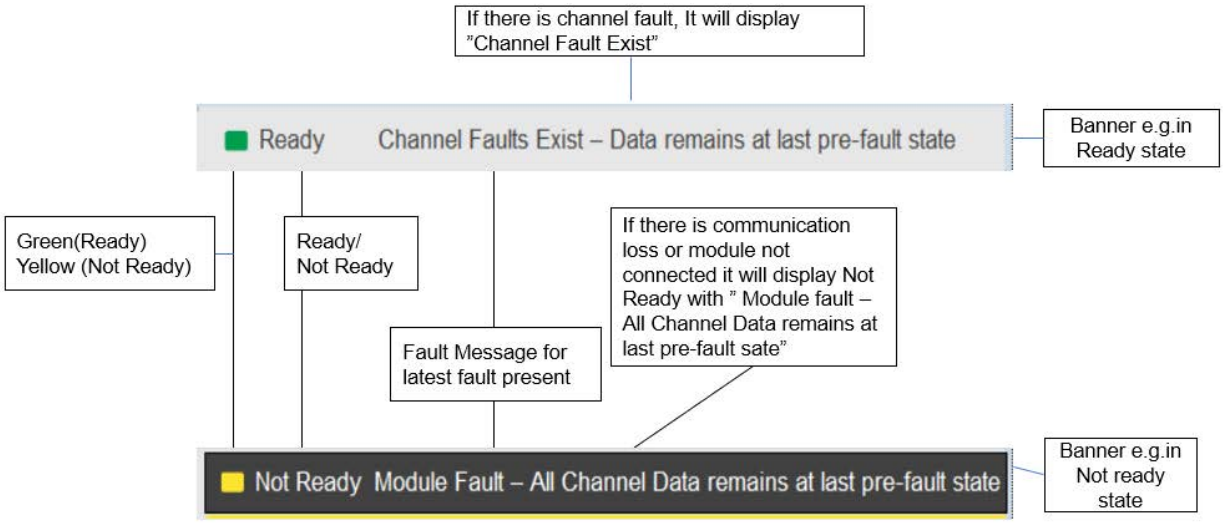
Basic Faceplate Attributes

Faceplates consist of tabs, and each tab consists of one or more pages. The Home tab is displayed when the faceplate is initially opened. The faceplate provides the means for operators, maintenance personnel, engineers, and others to interact with a device or instruction instance, which includes a view of its status and values. Faceplates may also manipulate an instruction through its commands and settings. Select the appropriate icon on the left of the faceplate to access a specific tab. This section provides an overview of the faceplate attributes that are common across the objects. More details are supplied in the individual section for each object.

Common Status Banner

At the top of all device object faceplates there is a common status banner which provides the following information:

- Ready (green LED icon)
- Not Ready Module Fault (yellow LED icon) status
- Channel Fault - Module is ready and one or more channels goes into fault state



Faceplate Navigation

All device object faceplates have navigation tabs on the left side of the faceplate. Navigation tabs may vary based on device type. The active tab will show as a light grey, while an inactive tab will show as a dark grey.


Active Tab


Inactive Tab

The common tabs are shown below.

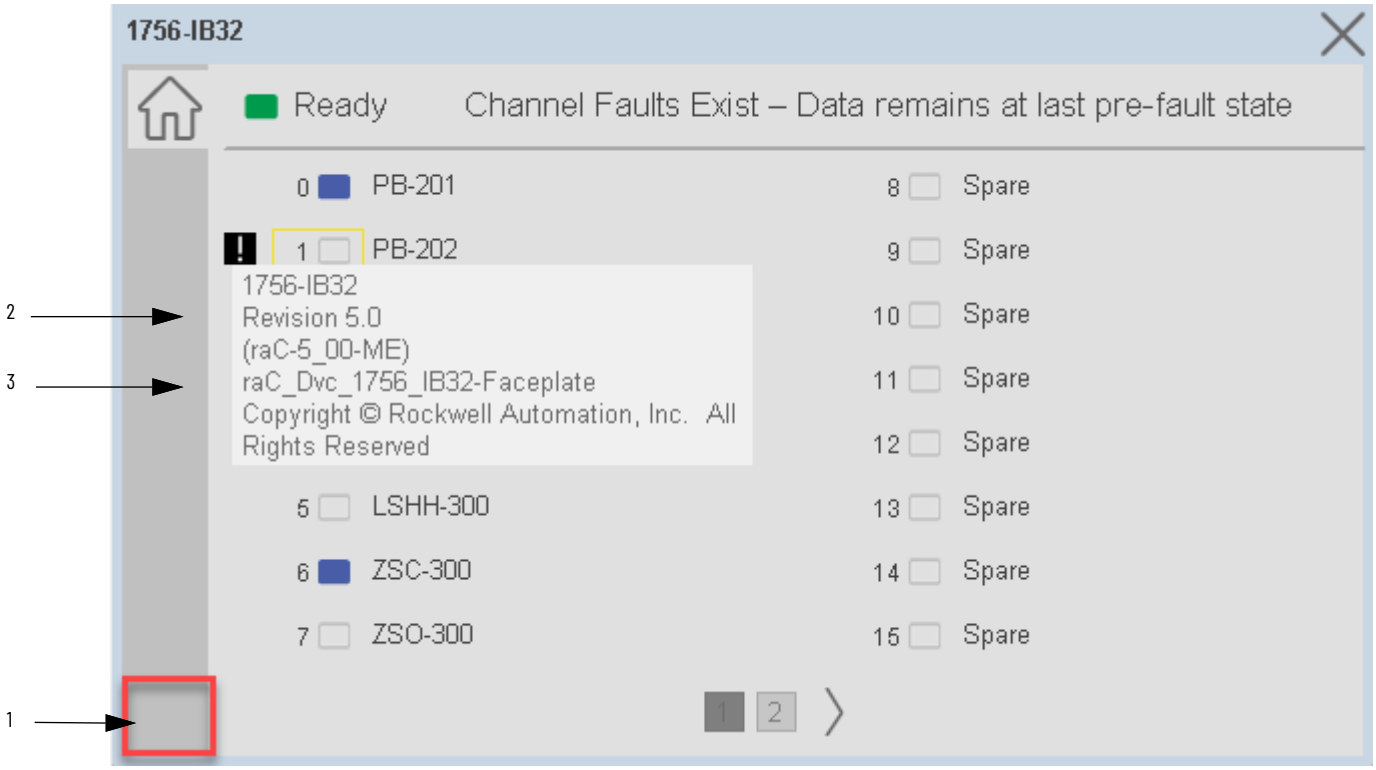

Home Tab


Diagnostics Tab

Faceplate Revision Notes

By clicking on the open space near the bottom left corner of the faceplate you can momentarily view revision notes and details of the active faceplate. This

may be useful in troubleshooting or when communicating with Rockwell Automation Tech Support.



Item	Description
1	Click near the bottom right corner to temporarily open up the revision notes dialogue
2	Revision number
3	Faceplate display name

Launch Buttons

Launch buttons are provided in Global Display (GGFX) files for FactoryTalk View® ME/SE as well as in Studio 5000 View Designer® projects. These are used to open HMI faceplate displays or pop-ups. Two types of launch buttons are provided:

Launch Button Style	Image Examples	Usage
Basic Text Button		Simple launch button with no diagnostic information.
Graphical Button		Graphic button can be used in schematic style displays where a system/network diagram is shown. When available, basic module diagnostics are displayed.

Diagnostic Icons

Diagnostic icons may be displayed on the graphic buttons for compatible modules. Safety modules are designated with a small guard icon.

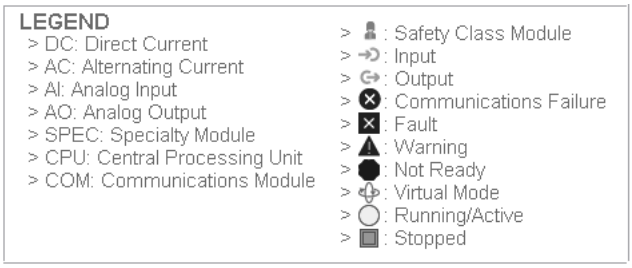
Icon	Image	Visible Condition
Communications Failure		Connection Faulted
Fault		Any channel fault or Diagnostic Active
Guard		Safety Class Modules

Schematic Display Configuration

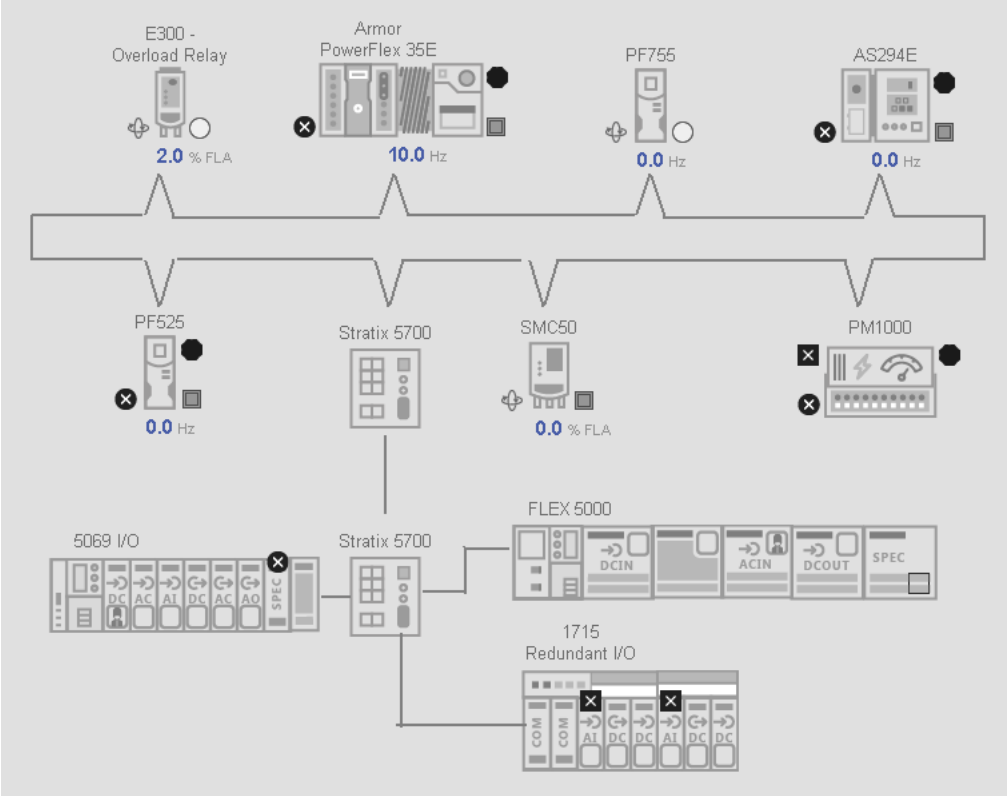
Additional icons are provided to represent I/O communications adapters, chassis, CPUs and slot fillers. Adapter icons can use Global Object Parameters to assign a label to the I/O rack. These icons can be used together to allow users to build schematic diagrams. The IO Device Library graphics can also be used along with similar buttons available in the Network Device Library Vxx.xx and Power Device Library Vx.xx.

It is recommended set the Grid Snap ON with settings $z = 4$; $y = 4$ when using the graphic symbols in FactoryTalk View® ME/SE. This will make it easier to align modules in a chassis configuration.

A legend is provided in the FactoryTalk View® ME/SE global object displays *(raC-5-ME) Graphic Symbols - IO Device* and *(raC-5-SE) Graphic Symbols - IO Device*.



An example of a complete system is shown below. This system includes objects from the IO Device Library, Network Device Library and Power Device Library.


E300 -
Overload Relay
2.0 % FLA
Armor
PowerFlex 35E
10.0 Hz
PF755
0.0 Hz
AS294E
0.0 Hz
PF525
0.0 Hz
Stratix 5700
SMC50
0.0 % FLA
PM1000
5069 I/O
DC
AC
AI
DC
AC
AO
SPEC
Stratix 5700
FLEX 5000
DCIN
ACIN
DCOUT
SPEC
1715
Redundant I/O
COM
COM
AI
DC
DC
AI
DC
DC

Library Versions

Each library object has a revision x.yy where: x is the Major Revision number and yy is the Minor Revision number. Each release of the library comes with release notes that describe the changes that were made since the last release. You can find the revision number of the object in a number of locations as shown below.

Component	Example
The faceplate in FactoryTalk® View software has revision information visible when the pointer is clicked just inside the lower left corner of the faceplate.	1756-IB32 Revision 5.0 (raC-5_00-ME) raC_Dvc_1756_IB32-Faceplate Copyright © Rockwell Automation, Inc. All Rights Reserved
The revision number is shown in the file names for GFX, VPD and ACM.HSL4 files	(raC-5_00-ME) raC_Dvc_1719_IBN8B-Faceplate.gfx (raC-5_00-ME) raC_Dvc_1719_IBN8-Faceplate.gfx (raC-5_00-ME) raC_Dvc_1719_IR4B-Faceplate.gfx (raC-5_00-ME) raC_Dvc_1719_IT4B-Faceplate.gfx (raC-5_00-ME) raC_Dvc_1719_OB2-Faceplate.gfx

Application Code Manager

Modules

Module type objects are provided for use with Studio 5000® Application Code Manager. This allows users to add I/O modules to their project in Application Code Manager. Modules must be added to compatible chassis or adapters.

A complete list of the included Application Code Manager module objects follows:

Family	Application Code Manager File
1715	(RA-LIB)_ACM_2.00_Module_Digital_1715-IB16D_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1715-IF16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1715-OF8I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1715-OB8DE_A_(5.3).HSL4
1719	(RA-LIB)_ACM_2.00_Module_Digital_1719-IBN8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1719-IBN8B_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1719-IR4B_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1719-IT4B_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1719-OB2_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1719-OB2L_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1719-IF4HB_A_(5.3).HSL4

Family	Application Code Manager File
1732	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB16M12R_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB16M12W_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB8M8SOER_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1732E-IF4M12R_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1732E-IR4IM12R_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1732E-IT4IM12R_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732E-OB16M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732E-OB16M12R_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732E-OB8M8SR_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1732E-OF4M12R_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB16M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB12XOB4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB12XOBV2_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB8XOB8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB8XOBV4_A_(5.3).HSL4
1734	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB4D_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE4S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8S_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE2C_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE2V_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE4C_(C_5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE8C_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IM2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IM4_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IR2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IR2E_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-IT2I_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV4_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV8_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OBV2S_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-OE2C_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-OE2V_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-OE4C_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-IE2CH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-IE4CH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-IF4U_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-OE2CIH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-8CFG_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IA2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IA4_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB4_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB4D_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB8_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB8S_B_(5.3).HSL4

Family	Application Code Manager File
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OA2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OA4_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2E_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2EP_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB4_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB4E_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8E_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV2E_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV4E_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV8E_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OW2_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OW4_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1734-OX2_C_(5.3).HSL4

Family	Application Code Manager File
1738	(RA-LIB)_ACM_2.00_Module_Digital_1738-IA2M12AC3_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IA2M12AC4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB2M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB4M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB4M8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB8M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB8M23_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB8M8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-IE2CM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-IE2VM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-IE4CM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-IR2M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-IT2IM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV4M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV8M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV8M23_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV8M8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OA2M12AC3_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB16E19M23_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB16E25DS_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB16EM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB2EM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB2EPM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB4EM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB4EM8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB8EM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB8EM23_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB8EM8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-OE2CM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-OE2VM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-OE4CM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OV4EM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OW4M12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1738-OW4M12AC_A_(5.3).HSL4

Family	Application Code Manager File
1756	(RA-LIB)_ACM_2.00_Module_Speciality_1756-HSC_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA16_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA16I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB32_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IC16_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF16_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF16H_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF4FXOF2F_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF6CIS_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF6I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8H_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8I_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IG16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IH16I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IM16I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IN16_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IR6I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IRT8I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IT16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IT6I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IV16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IV32_A_(5.3).HSL4

Family	Application Code Manager File
1756	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA16_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA16I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA8E_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16E_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16IEF_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16IEFS_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB32_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB8_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB8EI_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB8I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OBV8S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OC8_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF4_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF6xI_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF6CI_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF6VI_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF8I_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OG16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-ON8_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OV16E_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OV32E_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF16H_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8H_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8IH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IR12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-IT6I2_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF8H_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF8IH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756sc-IF8U_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA8D_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16D_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16IF_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16ISOE_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-IH16ISOE_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA8_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA8D_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16D_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16IS_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OH8I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OW16I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756-OX8I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1756sc-IC32_A_(5.3).HSL4

Family	Application Code Manager File
1769	(RA-LIB)_ACM_2.00_Module_Speciality_1769-ASCII_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_1769-HSC_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IA8I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF16C_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF16V_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4FXOF2F_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4XOF2_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IG16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IQ16F_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ32T_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ6XOW4_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IR6_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-IT6_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OA8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB16_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB16P_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB32T_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF2_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF4CI_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF4VI_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF8C_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF8V_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OG16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OV16_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OV32T_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OW16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OW8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-OW8I_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IF4IH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IF8U_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IR6I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IT6I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-OF4IH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1769-IA16_A_(5.3).HSL4
1791ES	(RA-LIB)_ACM_2.00_Module_Digital_1791ES-IB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1791ES-IB8XOBV4_A_(5.3).HSL4

Family	Application Code Manager File
	(RA-LIB)_ACM_2.00_Module_Speciality_1794-VHSC_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE4XOE2_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE8XOE4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF2XOF2I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF4I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IR8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IRT8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IT8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IV32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB32P_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-OE12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-OE4_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-OF4I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF4ICF_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF8IH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF8IHNF_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-OF8IH_A_(5.3).HSL4
1794	(RA-LIB)_ACM_2.00_Module_Analog_1794sc-IF8IU_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794sc-IRT8I_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA8I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB10XOB6_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16D_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16XOB16P_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IC16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IG16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IH16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IM16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IM8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-IV16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA8I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16D_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16P_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB8EP_A_(5.3).HSL4

Family	Application Code Manager File
1794	(RA-LIB)_ACM_2.00_Module_Digital_1794-OC16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OG16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OM16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OM8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV16P_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_1794-OW8_A_(5.3).HSL4
5015	(RA-LIB)_ACM_2.00_Module_Universal_5015-U8IHFTXT_(5.3).HSL4
5069	(RA-LIB)_ACM_2.00_Module_Speciality_5069-HSC2XOB4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-IB8S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OBV8S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_5069-SERIAL_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_5069-SERIAL_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_5069-SERIAL_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-IA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-IB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-IB16F_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-IB6F-3W_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-IF8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-IY4-IR_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OB16_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OB16F_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OB8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-OF4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-OF8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OW16_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OW4I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5069-OX4I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-IF4IH_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-OF4IH_A_(5.4).HSL4

Family	Application Code Manager File
5094	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8IH_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8IHXT_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8IH_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8IHXT_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OW4IS_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OW4ISXT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OW8I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OW8IXT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IY8_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IY8XT_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IA16XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16SXT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB32XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IM8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-IM8XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OA16_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OA16XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16S_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16SXT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB32_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB32XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB8XT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_5094-HSC_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_5094-HSCXT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_5094-SERIAL_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Speciality_5094-SERIALXT_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IJ2I_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IJ2IXT_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IJ2IS_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-IJ2ISXT_A_(5.4).HSL4
5032	(RA-LIB)_ACM_2.00_Module_Digital_5032-CFG16M12DR_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5032-CFGB16M12M12LDR_A_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Digital_5032-CFGB16M12P5DR_A_(5.4).HSL4

Family	Application Code Manager File
Communication Module	(RA-LIB)_ACM_2.00_Module_Communication_1734-ACNR_A_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1734-AENT_C_(5.2).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1734-AENTR_C_(5.2).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1738-ACNR_A_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1738-AENT_B_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1738-AENTR_B_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-CN2_C_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-CN2R_C_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-DNB_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-EN2T_(2.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-EN2TP_(4.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-EN2TR_(2.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-EN3TR_(2.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1756-EN4TR_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1769-AENTR_(2.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1794-ACN15_D_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1794-ACNR15_D_(2.0).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1794-AENT_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1794-AENTR_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5015-AENFTXT_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5069-AEN2TR_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5069-AENTR_(5.4).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AEN2SFPR_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AEN2SFPRXT_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AEN2TR_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AEN2TRXT_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AENSFPR_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AENSFPRXT_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AENTR_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_5094-AENTRXT_A_(5.1).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1715-AENTR_A_(5.2).HSL4
	(RA-LIB)_ACM_2.00_Module_Communication_1719-AENTR_A_(5.1).HSL4

HART Devices

A collection of HART devices is provided for use in Application Code Manager. This allows users to add devices to 5094 FLEX 5000 Analog HART Input/Output modules. A complete list of files is provided below.

HART Device	Application Code Manager File
0304-NEWTHERMOX	(RA-LIB)_ACM_2.00_Module_HART_Device_0304-NEWTHERMOX_(5.2).HSL4
0A01-TRI20	(RA-LIB)_ACM_2.00_Module_HART_Device_0A01-TRI20_(5.2).HSL4
0A02-BI_38XXVA	(RA-LIB)_ACM_2.00_Module_HART_Device_0A02-BI_38XXVA_(5.2).HSL4
0A04-QUANTIM	(RA-LIB)_ACM_2.00_Module_HART_Device_0A04-QUANTIM_(5.2).HSL4
0D14-Series_Gas_USM_3400	(RA-LIB)_ACM_2.00_Module_HART_Device_0D14-Series_Gas_USM_3400_(5.2).HSL4
0D15-Series_Gas_USM_3410	(RA-LIB)_ACM_2.00_Module_HART_Device_0D15-Series_Gas_USM_3410_(5.2).HSL4
0D28-Series_Liquid_USM_3800	(RA-LIB)_ACM_2.00_Module_HART_Device_0D28-Series_Liquid_USM_3800_(5.2).HSL4
0D29-Series_Liquid_USM_3810	(RA-LIB)_ACM_2.00_Module_HART_Device_0D29-Series_Liquid_USM_3810_(5.2).HSL4

HART Device	Application Code Manager File
1103-FMU860	(RA-LIB)_ACM_2.00_Module_HART_Device_1103-FMU860_(5.2).HSL4
1104-FMU861	(RA-LIB)_ACM_2.00_Module_HART_Device_1104-FMU861_(5.2).HSL4
1105-FMU862	(RA-LIB)_ACM_2.00_Module_HART_Device_1105-FMU862_(5.2).HSL4
1108-FEC12	(RA-LIB)_ACM_2.00_Module_HART_Device_1108-FEC12_(5.2).HSL4
110C-FMR23x	(RA-LIB)_ACM_2.00_Module_HART_Device_110C-FMR23x_(5.2).HSL4
110D-FMP200	(RA-LIB)_ACM_2.00_Module_HART_Device_110D-FMP200_(5.2).HSL4
110E-CerabarM	(RA-LIB)_ACM_2.00_Module_HART_Device_110E-CerabarM_(5.2).HSL4
110F-FMR2xx	(RA-LIB)_ACM_2.00_Module_HART_Device_110F-FMR2xx_(5.2).HSL4
1110-FMR53x	(RA-LIB)_ACM_2.00_Module_HART_Device_1110-FMR53x_(5.2).HSL4
1111-FMU4x	(RA-LIB)_ACM_2.00_Module_HART_Device_1111-FMU4x_(5.2).HSL4
1112-FMP4x	(RA-LIB)_ACM_2.00_Module_HART_Device_1112-FMP4x_(5.2).HSL4
1113-FMG_60	(RA-LIB)_ACM_2.00_Module_HART_Device_1113-FMG_60_(5.2).HSL4
1117-DeltabarS	(RA-LIB)_ACM_2.00_Module_HART_Device_1117-DeltabarS_(5.2).HSL4
1118-CerabarS	(RA-LIB)_ACM_2.00_Module_HART_Device_1118-CerabarS_(5.2).HSL4
1119-Cerabar_M_5x	(RA-LIB)_ACM_2.00_Module_HART_Device_1119-Cerabar_M_5x_(5.2).HSL4
111A-DeltapilotS	(RA-LIB)_ACM_2.00_Module_HART_Device_111A-DeltapilotS_(5.2).HSL4
111B-FMU9x	(RA-LIB)_ACM_2.00_Module_HART_Device_111B-FMU9x_(5.2).HSL4
111D-FMI5x	(RA-LIB)_ACM_2.00_Module_HART_Device_111D-FMI5x_(5.2).HSL4
111E-FMR25x	(RA-LIB)_ACM_2.00_Module_HART_Device_111E-FMR25x_(5.2).HSL4
111F_FMR54x	(RA-LIB)_ACM_2.00_Module_HART_Device_111F_FMR54x_(5.2).HSL4
1120-FMP4x_I	(RA-LIB)_ACM_2.00_Module_HART_Device_1120-FMP4x_I_(5.2).HSL4
1121-Deltabar_M_5x	(RA-LIB)_ACM_2.00_Module_HART_Device_1121-Deltabar_M_5x_(5.2).HSL4
1122-Levelflex_FMP5x	(RA-LIB)_ACM_2.00_Module_HART_Device_1122-Levelflex_FMP5x_(5.2).HSL4
1124-Waterpilot_2x	(RA-LIB)_ACM_2.00_Module_HART_Device_1124-Waterpilot_2x_(5.2).HSL4
1127-Deltabar_FMD71x	(RA-LIB)_ACM_2.00_Module_HART_Device_1127-Deltabar_FMD71x_(5.2).HSL4
1128-MicropilotFMR5x	(RA-LIB)_ACM_2.00_Module_HART_Device_1128-MicropilotFMR5x_(5.2).HSL4
1128-Micropilot_5x	(RA-LIB)_ACM_2.00_Module_HART_Device_1128-Micropilot_5x_(5.2).HSL4
112A-Cerabar_5xB_7xB	(RA-LIB)_ACM_2.00_Module_HART_Device_112A-Cerabar_5xB_7xB_(5.2).HSL4
112B-MicropilotFMR6x	(RA-LIB)_ACM_2.00_Module_HART_Device_112B-MicropilotFMR6x_(5.2).HSL4
112B-Micropilot_6x	(RA-LIB)_ACM_2.00_Module_HART_Device_112B-Micropilot_6x_(5.2).HSL4
112D-Proservo_NMS8x	(RA-LIB)_ACM_2.00_Module_HART_Device_112D-Proservo_NMS8x_(5.2).HSL4
112E-Micropilot_NMR8x	(RA-LIB)_ACM_2.00_Module_HART_Device_112E-Micropilot_NMR8x_(5.2).HSL4
112F-Tank_Side_Monitor_NRF8x	(RA-LIB)_ACM_2.00_Module_HART_Device_112F-Tank_Side_Monitor_NRF8x_(5.2).HSL4
1130-Gammapilot_5x	(RA-LIB)_ACM_2.00_Module_HART_Device_1130-Gammapilot_5x_(5.2).HSL4
1131-Deltabar_5xB_7xB	(RA-LIB)_ACM_2.00_Module_HART_Device_1131-Deltabar_5xB_7xB_(5.2).HSL4
1132-Promag_33	(RA-LIB)_ACM_2.00_Module_HART_Device_1132-Promag_33_(5.2).HSL4
1133-Prowirl70	(RA-LIB)_ACM_2.00_Module_HART_Device_1133-Prowirl70_(5.2).HSL4
1134-Promass63	(RA-LIB)_ACM_2.00_Module_HART_Device_1134-Promass63_(5.2).HSL4
1135-Promag39	(RA-LIB)_ACM_2.00_Module_HART_Device_1135-Promag39_(5.2).HSL4
1136-Promag35S	(RA-LIB)_ACM_2.00_Module_HART_Device_1136-Promag35S_(5.2).HSL4
1137-Prowirl77	(RA-LIB)_ACM_2.00_Module_HART_Device_1137-Prowirl77_(5.2).HSL4
1138-Prowirl200	(RA-LIB)_ACM_2.00_Module_HART_Device_1138-Prowirl200_(5.2).HSL4
1139-Promass60	(RA-LIB)_ACM_2.00_Module_HART_Device_1139-Promass60_(5.2).HSL4
113A-Promag100	(RA-LIB)_ACM_2.00_Module_HART_Device_113A-Promag100_(5.2).HSL4
113B-Promass300_500	(RA-LIB)_ACM_2.00_Module_HART_Device_113B-Promass300_500_(5.2).HSL4
113C-Promag300_500	(RA-LIB)_ACM_2.00_Module_HART_Device_113C-Promag300_500_(5.2).HSL4
1140-Proson_F	(RA-LIB)_ACM_2.00_Module_HART_Device_1140-Proson_F_(5.2).HSL4

HART Device	Application Code Manager File
1141-Promag50	(RA-LIB)_ACM_2.00_Module_HART_Device_1141-Promag50_(5.2).HSL4
1142-Promag53	(RA-LIB)_ACM_2.00_Module_HART_Device_1142-Promag53_(5.2).HSL4
1143-Promag51	(RA-LIB)_ACM_2.00_Module_HART_Device_1143-Promag51_(5.2).HSL4
1144-Promag55	(RA-LIB)_ACM_2.00_Module_HART_Device_1144-Promag55_(5.2).HSL4
1145-Promag10	(RA-LIB)_ACM_2.00_Module_HART_Device_1145-Promag10_(5.2).HSL4
1146-Promag23	(RA-LIB)_ACM_2.00_Module_HART_Device_1146-Promag23_(5.2).HSL4
1148-Promag200	(RA-LIB)_ACM_2.00_Module_HART_Device_1148-Promag200_(5.2).HSL4
1149-Cubemass_DCI	(RA-LIB)_ACM_2.00_Module_HART_Device_1149-Cubemass_DCI_(5.2).HSL4
114A-Promass100	(RA-LIB)_ACM_2.00_Module_HART_Device_114A-Promass100_(5.2).HSL4
1150-Promass80	(RA-LIB)_ACM_2.00_Module_HART_Device_1150-Promass80_(5.2).HSL4
1151-Promass83	(RA-LIB)_ACM_2.00_Module_HART_Device_1151-Promass83_(5.2).HSL4
1152-Promass84	(RA-LIB)_ACM_2.00_Module_HART_Device_1152-Promass84_(5.2).HSL4
1153-Promass40	(RA-LIB)_ACM_2.00_Module_HART_Device_1153-Promass40_(5.2).HSL4
1154-Promass200	(RA-LIB)_ACM_2.00_Module_HART_Device_1154-Promass200_(5.2).HSL4
1155-CNGmass_DCI	(RA-LIB)_ACM_2.00_Module_HART_Device_1155-CNGmass_DCI_(5.2).HSL4
1156-Prowirl72	(RA-LIB)_ACM_2.00_Module_HART_Device_1156-Prowirl72_(5.2).HSL4
1157-Prowirl73	(RA-LIB)_ACM_2.00_Module_HART_Device_1157-Prowirl73_(5.2).HSL4
1158-P_Flow90	(RA-LIB)_ACM_2.00_Module_HART_Device_1158-P_Flow90_(5.2).HSL4
1159-P_Flow93	(RA-LIB)_ACM_2.00_Module_HART_Device_1159-P_Flow93_(5.2).HSL4
115A-ProsonicFlow_200	(RA-LIB)_ACM_2.00_Module_HART_Device_115A-ProsonicFlow_200_(5.2).HSL4
115C-ProsonicFlow_100	(RA-LIB)_ACM_2.00_Module_HART_Device_115C-ProsonicFlow_100_(5.2).HSL4
115D-ProsonicFlow_300_500	(RA-LIB)_ACM_2.00_Module_HART_Device_115D-ProsonicFlow_300_500_(5.2).HSL4
1164-AT70	(RA-LIB)_ACM_2.00_Module_HART_Device_1164-AT70_(5.2).HSL4
1165-T_Mass65	(RA-LIB)_ACM_2.00_Module_HART_Device_1165-T_Mass65_(5.2).HSL4
1166-T_Mass_A_B_150	(RA-LIB)_ACM_2.00_Module_HART_Device_1166-T_Mass_A_B_150_(5.2).HSL4
1167-Promag400_R6	(RA-LIB)_ACM_2.00_Module_HART_Device_1167-Promag400_R6_(5.2).HSL4
1167-Promag_400	(RA-LIB)_ACM_2.00_Module_HART_Device_1167-Promag_400_(5.2).HSL4
1168-t_mass_L_T_150	(RA-LIB)_ACM_2.00_Module_HART_Device_1168-t_mass_L_T_150_(5.2).HSL4
1169-Promag400_R8	(RA-LIB)_ACM_2.00_Module_HART_Device_1169-Promag400_R8_(5.2).HSL4
1172-Promass10	(RA-LIB)_ACM_2.00_Module_HART_Device_1172-Promass10_(5.2).HSL4
1178-TMD832	(RA-LIB)_ACM_2.00_Module_HART_Device_1178-TMD832_(5.2).HSL4
1179-TMD833	(RA-LIB)_ACM_2.00_Module_HART_Device_1179-TMD833_(5.2).HSL4
117C-TMD842	(RA-LIB)_ACM_2.00_Module_HART_Device_117C-TMD842_(5.2).HSL4
118C-Mypro_pH	(RA-LIB)_ACM_2.00_Module_HART_Device_118C-Mypro_pH_(5.2).HSL4
118D-Mypro_LFC	(RA-LIB)_ACM_2.00_Module_HART_Device_118D-Mypro_LFC_(5.2).HSL4
118E-Mypro_LFI	(RA-LIB)_ACM_2.00_Module_HART_Device_118E-Mypro_LFI_(5.2).HSL4
119C-Liquiline_CM44x	(RA-LIB)_ACM_2.00_Module_HART_Device_119C-Liquiline_CM44x_(5.2).HSL4
119D-Liquistation_CSFxx	(RA-LIB)_ACM_2.00_Module_HART_Device_119D-Liquistation_CSFxx_(5.2).HSL4
119F-Liquiline_CA80xx	(RA-LIB)_ACM_2.00_Module_HART_Device_119F-Liquiline_CA80xx_(5.2).HSL4
11A3-LiquilineCM82	(RA-LIB)_ACM_2.00_Module_HART_Device_11A3-LiquilineCM82_(5.2).HSL4
11B5-NMT530	(RA-LIB)_ACM_2.00_Module_HART_Device_11B5-NMT530_(5.2).HSL4
11B6-NMS530	(RA-LIB)_ACM_2.00_Module_HART_Device_11B6-NMS530_(5.2).HSL4
11C8-TMT182	(RA-LIB)_ACM_2.00_Module_HART_Device_11C8-TMT182_(5.2).HSL4
11C9-TMT122	(RA-LIB)_ACM_2.00_Module_HART_Device_11C9-TMT122_(5.2).HSL4
11CA-TMT162	(RA-LIB)_ACM_2.00_Module_HART_Device_11CA-TMT162_(5.2).HSL4
11CB-TMT142	(RA-LIB)_ACM_2.00_Module_HART_Device_11CB-TMT142_(5.2).HSL4
11CC-iTEMP_TMT82	(RA-LIB)_ACM_2.00_Module_HART_Device_11CC-iTEMP_TMT82_(5.2).HSL4

HART Device	Application Code Manager File
11CE-iTEMP_TMT162	(RA-LIB)_ACM_2.00_Module_HART_Device_11CE-iTEMP_TMT162_(5.2).HSL4
11CF-TrustSensTM37x	(RA-LIB)_ACM_2.00_Module_HART_Device_11CF-TrustSensTM37x_(5.2).HSL4
11D0-iTEMP_TMT72	(RA-LIB)_ACM_2.00_Module_HART_Device_11D0-iTEMP_TMT72_(5.2).HSL4
11EE-Crocus_P	(RA-LIB)_ACM_2.00_Module_HART_Device_11EE-Crocus_P_(5.2).HSL4
11EF-Crocus_D	(RA-LIB)_ACM_2.00_Module_HART_Device_11EF-Crocus_D_(5.2).HSL4
1207-ABB_50XM2000	(RA-LIB)_ACM_2.00_Module_HART_Device_1207-ABB_50XM2000_(5.2).HSL4
1208-ABB_50XE400	(RA-LIB)_ACM_2.00_Module_HART_Device_1208-ABB_50XE400_(5.2).HSL4
120E-ABB_50VT1000	(RA-LIB)_ACM_2.00_Module_HART_Device_120E-ABB_50VT1000_(5.2).HSL4
120F-ABB_50VM1000	(RA-LIB)_ACM_2.00_Module_HART_Device_120F-ABB_50VM1000_(5.2).HSL4
1219-ABB_50XM1000	(RA-LIB)_ACM_2.00_Module_HART_Device_1219-ABB_50XM1000_(5.2).HSL4
121A-ABB_50SM1000	(RA-LIB)_ACM_2.00_Module_HART_Device_121A-ABB_50SM1000_(5.2).HSL4
1242-PTH	(RA-LIB)_ACM_2.00_Module_HART_Device_1242-PTH_(5.2).HSL4
1250-TB82PH_pH	(RA-LIB)_ACM_2.00_Module_HART_Device_1250-TB82PH_pH_(5.2).HSL4
1251-TB82PH_ORP	(RA-LIB)_ACM_2.00_Module_HART_Device_1251-TB82PH_ORP_(5.2).HSL4
1252-TB82PH_pION	(RA-LIB)_ACM_2.00_Module_HART_Device_1252-TB82PH_pION_(5.2).HSL4
1253-TB82PH_IConc	(RA-LIB)_ACM_2.00_Module_HART_Device_1253-TB82PH_IConc_(5.2).HSL4
1254-TB82EC_COND	(RA-LIB)_ACM_2.00_Module_HART_Device_1254-TB82EC_COND_(5.2).HSL4
1255-TB82EC_CONC	(RA-LIB)_ACM_2.00_Module_HART_Device_1255-TB82EC_CONC_(5.2).HSL4
1256-TB82TE_COND	(RA-LIB)_ACM_2.00_Module_HART_Device_1256-TB82TE_COND_(5.2).HSL4
1257-TB82TE_CONC	(RA-LIB)_ACM_2.00_Module_HART_Device_1257-TB82TE_CONC_(5.2).HSL4
1258-TB82TC_COND	(RA-LIB)_ACM_2.00_Module_HART_Device_1258-TB82TC_COND_(5.2).HSL4
1259-TB82TC_CONC	(RA-LIB)_ACM_2.00_Module_HART_Device_1259-TB82TC_CONC_(5.2).HSL4
1300-Position_Xmitter	(RA-LIB)_ACM_2.00_Module_HART_Device_1300-Position_Xmitter_(5.2).HSL4
1303-DVC6000	(RA-LIB)_ACM_2.00_Module_HART_Device_1303-DVC6000_(5.2).HSL4
1304-DLC3010	(RA-LIB)_ACM_2.00_Module_HART_Device_1304-DLC3010_(5.2).HSL4
1305-DVC2000	(RA-LIB)_ACM_2.00_Module_HART_Device_1305-DVC2000_(5.2).HSL4
1309-DVC6200	(RA-LIB)_ACM_2.00_Module_HART_Device_1309-DVC6200_(5.2).HSL4
130A-DVC6200_SIS	(RA-LIB)_ACM_2.00_Module_HART_Device_130A-DVC6200_SIS_(5.2).HSL4
130B-DVC6000_HW2	(RA-LIB)_ACM_2.00_Module_HART_Device_130B-DVC6000_HW2_(5.2).HSL4
130F-DLC3100	(RA-LIB)_ACM_2.00_Module_HART_Device_130F-DLC3100_(5.2).HSL4
1401-MAG2	(RA-LIB)_ACM_2.00_Module_HART_Device_1401-MAG2_(5.2).HSL4
1402-IASPT_Premium_2	(RA-LIB)_ACM_2.00_Module_HART_Device_1402-IASPT_Premium_2_(5.2).HSL4
1405-pH_876	(RA-LIB)_ACM_2.00_Module_HART_Device_1405-pH_876_(5.2).HSL4
1407-RTT30	(RA-LIB)_ACM_2.00_Module_HART_Device_1407-RTT30_(5.2).HSL4
1408-ECS_Pressure	(RA-LIB)_ACM_2.00_Module_HART_Device_1408-ECS_Pressure_(5.2).HSL4
1409-CFT51	(RA-LIB)_ACM_2.00_Module_HART_Device_1409-CFT51_(5.2).HSL4
140A-RTT80	(RA-LIB)_ACM_2.00_Module_HART_Device_140A-RTT80_(5.2).HSL4
140B-pH_S876	(RA-LIB)_ACM_2.00_Module_HART_Device_140B-pH_S876_(5.2).HSL4
1419-CFT34A	(RA-LIB)_ACM_2.00_Module_HART_Device_1419-CFT34A_(5.2).HSL4
141B-IMT31A	(RA-LIB)_ACM_2.00_Module_HART_Device_141B-IMT31A_(5.2).HSL4
141C-IMT33A	(RA-LIB)_ACM_2.00_Module_HART_Device_141C-IMT33A_(5.2).HSL4
141D-IMV31	(RA-LIB)_ACM_2.00_Module_HART_Device_141D-IMV31_(5.2).HSL4
141E-Vortex_84	(RA-LIB)_ACM_2.00_Module_HART_Device_141E-Vortex_84_(5.2).HSL4
141F-Vortex_84C	(RA-LIB)_ACM_2.00_Module_HART_Device_141F-Vortex_84C_(5.2).HSL4
1428-IMT96	(RA-LIB)_ACM_2.00_Module_HART_Device_1428-IMT96_(5.2).HSL4
1429-IMT25	(RA-LIB)_ACM_2.00_Module_HART_Device_1429-IMT25_(5.2).HSL4
142E-I_A_Pressure	(RA-LIB)_ACM_2.00_Module_HART_Device_142E-I_A_Pressure_(5.2).HSL4

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142F-IMV_25_30	(RA-LIB)_ACM_2.00_Module_HART_Device_142F-IMV_25_30_(5.2).HSL4
1430-PH_875	(RA-LIB)_ACM_2.00_Module_HART_Device_1430-PH_875_(5.2).HSL4
1433-ITVORTEX	(RA-LIB)_ACM_2.00_Module_HART_Device_1433-ITVORTEX_(5.2).HSL4
1434-CFT50	(RA-LIB)_ACM_2.00_Module_HART_Device_1434-CFT50_(5.2).HSL4
1435-CR_875	(RA-LIB)_ACM_2.00_Module_HART_Device_1435-CR_875_(5.2).HSL4
1436-EC_875	(RA-LIB)_ACM_2.00_Module_HART_Device_1436-EC_875_(5.2).HSL4
1438-RTT15	(RA-LIB)_ACM_2.00_Module_HART_Device_1438-RTT15_(5.2).HSL4
1440-IA_Pressure_S	(RA-LIB)_ACM_2.00_Module_HART_Device_1440-IA_Pressure_S_(5.2).HSL4
1440-I_A_Pressure_S	(RA-LIB)_ACM_2.00_Module_HART_Device_1440-I_A_Pressure_S_(5.2).HSL4
1441-RTT15_H	(RA-LIB)_ACM_2.00_Module_HART_Device_1441-RTT15_H_(5.2).HSL4
1442-RTT15S	(RA-LIB)_ACM_2.00_Module_HART_Device_1442-RTT15S_(5.2).HSL4
1444-Free_Space_Radar_LRxx	(RA-LIB)_ACM_2.00_Module_HART_Device_1444-Free_Space_Radar_LRxx_(5.2).HSL4
147D-CFT_30_x	(RA-LIB)_ACM_2.00_Module_HART_Device_147D-CFT_30_x_(5.2).HSL4
1501-FCX_A_C	(RA-LIB)_ACM_2.00_Module_HART_Device_1501-FCX_A_C_(5.2).HSL4
1502-FCX_A2_C2	(RA-LIB)_ACM_2.00_Module_HART_Device_1502-FCX_A2_C2_(5.2).HSL4
1504-FCX_A3S	(RA-LIB)_ACM_2.00_Module_HART_Device_1504-FCX_A3S_(5.2).HSL4
1505-FCX_A4	(RA-LIB)_ACM_2.00_Module_HART_Device_1505-FCX_A4_(5.2).HSL4
1540-FST	(RA-LIB)_ACM_2.00_Module_HART_Device_1540-FST_(5.2).HSL4
1581-FRC	(RA-LIB)_ACM_2.00_Module_HART_Device_1581-FRC_(5.2).HSL4
1605-TEU_211	(RA-LIB)_ACM_2.00_Module_HART_Device_1605-TEU_211_(5.2).HSL4
1606-TS_11	(RA-LIB)_ACM_2.00_Module_HART_Device_1606-TS_11_(5.2).HSL4
1608-TH_02	(RA-LIB)_ACM_2.00_Module_HART_Device_1608-TH_02_(5.2).HSL4
1640-TZID	(RA-LIB)_ACM_2.00_Module_HART_Device_1640-TZID_(5.2).HSL4
1641-TZIDC	(RA-LIB)_ACM_2.00_Module_HART_Device_1641-TZIDC_(5.2).HSL4
1685-AS800	(RA-LIB)_ACM_2.00_Module_HART_Device_1685-AS800_(5.2).HSL4
1687-Contrac	(RA-LIB)_ACM_2.00_Module_HART_Device_1687-Contrac_(5.2).HSL4
1701-ST3000	(RA-LIB)_ACM_2.00_Module_HART_Device_1701-ST3000_(5.2).HSL4
1702-STT25T	(RA-LIB)_ACM_2.00_Module_HART_Device_1702-STT25T_(5.2).HSL4
1703-HWFLOW_Mage_W_Plus	(RA-LIB)_ACM_2.00_Module_HART_Device_1703-HWFLOW_Mage_W_Plus_(5.2).HSL4
1704-STT25H	(RA-LIB)_ACM_2.00_Module_HART_Device_1704-STT25H_(5.2).HSL4
1705-HERCULINE	(RA-LIB)_ACM_2.00_Module_HART_Device_1705-HERCULINE_(5.2).HSL4
1706-SmartCET	(RA-LIB)_ACM_2.00_Module_HART_Device_1706-SmartCET_(5.2).HSL4
1707-STT17H	(RA-LIB)_ACM_2.00_Module_HART_Device_1707-STT17H_(5.2).HSL4
1709-STT25S	(RA-LIB)_ACM_2.00_Module_HART_Device_1709-STT25S_(5.2).HSL4
170B-STT25H6	(RA-LIB)_ACM_2.00_Module_HART_Device_170B-STT25H6_(5.2).HSL4
170C-STT25T6	(RA-LIB)_ACM_2.00_Module_HART_Device_170C-STT25T6_(5.2).HSL4
1720-ST_800	(RA-LIB)_ACM_2.00_Module_HART_Device_1720-ST_800_(5.2).HSL4
1721-ST_700	(RA-LIB)_ACM_2.00_Module_HART_Device_1721-ST_700_(5.2).HSL4
1722-STT850	(RA-LIB)_ACM_2.00_Module_HART_Device_1722-STT850_(5.2).HSL4
1724-SMV800	(RA-LIB)_ACM_2.00_Module_HART_Device_1724-SMV800_(5.2).HSL4
1726-SLG700	(RA-LIB)_ACM_2.00_Module_HART_Device_1726-SLG700_(5.2).HSL4
1727-SLN_700	(RA-LIB)_ACM_2.00_Module_HART_Device_1727-SLN_700_(5.2).HSL4
1729-XNX	(RA-LIB)_ACM_2.00_Module_HART_Device_1729-XNX_(5.2).HSL4
172A-STT750	(RA-LIB)_ACM_2.00_Module_HART_Device_172A-STT750_(5.2).HSL4
172C-RMx40_x50	(RA-LIB)_ACM_2.00_Module_HART_Device_172C-RMx40_x50_(5.2).HSL4
1740-STT650	(RA-LIB)_ACM_2.00_Module_HART_Device_1740-STT650_(5.2).HSL4
1750-TWM9000	(RA-LIB)_ACM_2.00_Module_HART_Device_1750-TWM9000_(5.2).HSL4

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1751-TWC9000	(RA-LIB)_ACM_2.00_Module_HART_Device_1751-TWC9000_(5.2).HSL4
1754-TWV9000	(RA-LIB)_ACM_2.00_Module_HART_Device_1754-TWV9000_(5.2).HSL4
1755-TWM1000	(RA-LIB)_ACM_2.00_Module_HART_Device_1755-TWM1000_(5.2).HSL4
1756-Smartline_Radar	(RA-LIB)_ACM_2.00_Module_HART_Device_1756-Smartline_Radar_(5.2).HSL4
1757-Smartline_TDR	(RA-LIB)_ACM_2.00_Module_HART_Device_1757-Smartline_TDR_(5.2).HSL4
1758-Smartline_RM76	(RA-LIB)_ACM_2.00_Module_HART_Device_1758-Smartline_RM76_(5.2).HSL4
1759-Smartline_RM77	(RA-LIB)_ACM_2.00_Module_HART_Device_1759-Smartline_RM77_(5.2).HSL4
175A-RAEGuard_3	(RA-LIB)_ACM_2.00_Module_HART_Device_175A-RAEGuard_3_(5.2).HSL4
175B-VersaFlow_SONIC_1000	(RA-LIB)_ACM_2.00_Module_HART_Device_175B-VersaFlow_SONIC_1000_(5.2).HSL4
1909-Dens_3680	(RA-LIB)_ACM_2.00_Module_HART_Device_1909-Dens_3680_(5.2).HSL4
190A-TMT_4790	(RA-LIB)_ACM_2.00_Module_HART_Device_190A-TMT_4790_(5.2).HSL4
190B-Accu_Pulse_PRO	(RA-LIB)_ACM_2.00_Module_HART_Device_190B-Accu_Pulse_PRO_(5.2).HSL4
1A01-KSX	(RA-LIB)_ACM_2.00_Module_HART_Device_1A01-KSX_(5.2).HSL4
1A02-ABB_600T	(RA-LIB)_ACM_2.00_Module_HART_Device_1A02-ABB_600T_(5.2).HSL4
1A03-ABB_2600T_268	(RA-LIB)_ACM_2.00_Module_HART_Device_1A03-ABB_2600T_268_(5.2).HSL4
1A04-ABB_2600T_262_264	(RA-LIB)_ACM_2.00_Module_HART_Device_1A04-ABB_2600T_262_264_(5.2).HSL4
1A05-ABB_2600T_364	(RA-LIB)_ACM_2.00_Module_HART_Device_1A05-ABB_2600T_364_(5.2).HSL4
1A07-ABB_2600T_266_Pressure	(RA-LIB)_ACM_2.00_Module_HART_Device_1A07-ABB_2600T_266_Pressure_(5.2).HSL4
1A08-KST	(RA-LIB)_ACM_2.00_Module_HART_Device_1A08-KST_(5.2).HSL4
1A0A-ABB_658T	(RA-LIB)_ACM_2.00_Module_HART_Device_1A0A-ABB_658T_(5.2).HSL4
1A0B-TTX300_series	(RA-LIB)_ACM_2.00_Module_HART_Device_1A0B-TTX300_series_(5.2).HSL4
1A0C-ABB_652_653S	(RA-LIB)_ACM_2.00_Module_HART_Device_1A0C-ABB_652_653S_(5.2).HSL4
1A0D-TTx200_family	(RA-LIB)_ACM_2.00_Module_HART_Device_1A0D-TTx200_family_(5.2).HSL4
1A1A-FVS4000	(RA-LIB)_ACM_2.00_Module_HART_Device_1A1A-FVS4000_(5.2).HSL4
1A1B-VA_Master_FAM540	(RA-LIB)_ACM_2.00_Module_HART_Device_1A1B-VA_Master_FAM540_(5.2).HSL4
1A1D-FSM4000	(RA-LIB)_ACM_2.00_Module_HART_Device_1A1D-FSM4000_(5.2).HSL4
1A1E-FEX300	(RA-LIB)_ACM_2.00_Module_HART_Device_1A1E-FEX300_(5.2).HSL4
1A1F-FEX100	(RA-LIB)_ACM_2.00_Module_HART_Device_1A1F-FEX100_(5.2).HSL4
1A22-AWT210	(RA-LIB)_ACM_2.00_Module_HART_Device_1A22-AWT210_(5.2).HSL4
1A23-TB82PH_Combined	(RA-LIB)_ACM_2.00_Module_HART_Device_1A23-TB82PH_Combined_(5.2).HSL4
1A24-TB82EC_Combined	(RA-LIB)_ACM_2.00_Module_HART_Device_1A24-TB82EC_Combined_(5.2).HSL4
1A25-TB82TE_Combined	(RA-LIB)_ACM_2.00_Module_HART_Device_1A25-TB82TE_Combined_(5.2).HSL4
1A26-TB82TC_Combined	(RA-LIB)_ACM_2.00_Module_HART_Device_1A26-TB82TC_Combined_(5.2).HSL4
1A30-APA592PH	(RA-LIB)_ACM_2.00_Module_HART_Device_1A30-APA592PH_(5.2).HSL4
1A31-ACA592EC	(RA-LIB)_ACM_2.00_Module_HART_Device_1A31-ACA592EC_(5.2).HSL4
1A32-ACA592TE	(RA-LIB)_ACM_2.00_Module_HART_Device_1A32-ACA592TE_(5.2).HSL4
1A33-ACA592TC	(RA-LIB)_ACM_2.00_Module_HART_Device_1A33-ACA592TC_(5.2).HSL4
1A35-AWT420	(RA-LIB)_ACM_2.00_Module_HART_Device_1A35-AWT420_(5.2).HSL4
1A89-ABB_263_265_2000T	(RA-LIB)_ACM_2.00_Module_HART_Device_1A89-ABB_263_265_2000T_(5.2).HSL4
1A8C-ABB_261	(RA-LIB)_ACM_2.00_Module_HART_Device_1A8C-ABB_261_(5.2).HSL4
1A8D-EDP300	(RA-LIB)_ACM_2.00_Module_HART_Device_1A8D-EDP300_(5.2).HSL4
1A8E-ABB_2600T_266_MV	(RA-LIB)_ACM_2.00_Module_HART_Device_1A8E-ABB_2600T_266_MV_(5.2).HSL4
1A91-Pxx100	(RA-LIB)_ACM_2.00_Module_HART_Device_1A91-Pxx100_(5.2).HSL4
1A99-Fieldkey_NHU200_WL	(RA-LIB)_ACM_2.00_Module_HART_Device_1A99-Fieldkey_NHU200_WL_(5.2).HSL4
1A9C-LST_400_Ultrasonic_Level	(RA-LIB)_ACM_2.00_Module_HART_Device_1A9C-LST_400_Ultrasonic_Level_(5.2).HSL4
1A9E-LWT_Guided_Wave_Radar_Level	(RA-LIB)_ACM_2.00_Module_HART_Device_1A9E-LWT_Guided_Wave_Radar_Level_(5.2).HSL4
1AA0-FCXxxx	(RA-LIB)_ACM_2.00_Module_HART_Device_1AA0-FCXxxx_(5.2).HSL4

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1AA3-FSV400_FSS400	(RA-LIB)_ACM_2.00_Module_HART_Device_1AA3-FSV400_FSS400_(5.2).HSL4
1AA4-FEW5xx_FEX6xx	(RA-LIB)_ACM_2.00_Module_HART_Device_1AA4-FEW5xx_FEX6xx_(5.2).HSL4
1D01-B6U	(RA-LIB)_ACM_2.00_Module_HART_Device_1D01-B6U_(5.2).HSL4
1D02-B3HU	(RA-LIB)_ACM_2.00_Module_HART_Device_1D02-B3HU_(5.2).HSL4
1D03-HU_27	(RA-LIB)_ACM_2.00_Module_HART_Device_1D03-HU_27_(5.2).HSL4
1D04-B3HU2	(RA-LIB)_ACM_2.00_Module_HART_Device_1D04-B3HU2_(5.2).HSL4
1F07-MM_9712_Mass_flo	(RA-LIB)_ACM_2.00_Module_HART_Device_1F07-MM_9712_Mass_flo_(5.2).HSL4
1F15-MM_9739_Mass_flo	(RA-LIB)_ACM_2.00_Module_HART_Device_1F15-MM_9739_Mass_flo_(5.2).HSL4
1F16-MVD_Series_9739	(RA-LIB)_ACM_2.00_Module_HART_Device_1F16-MVD_Series_9739_(5.2).HSL4
1F17-K_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_1F17-K_Series_(5.2).HSL4
1F1E-MM_9701	(RA-LIB)_ACM_2.00_Module_HART_Device_1F1E-MM_9701_(5.2).HSL4
1F24-MVD_Series_2000_Config_I_O	(RA-LIB)_ACM_2.00_Module_HART_Device_1F24-MVD_Series_2000_Config_I_O_(5.2).HSL4
1F25-MVD_Series_1000_Config_I_O	(RA-LIB)_ACM_2.00_Module_HART_Device_1F25-MVD_Series_1000_Config_I_O_(5.2).HSL4
1F26-MVD_Series_2000_IS_Output	(RA-LIB)_ACM_2.00_Module_HART_Device_1F26-MVD_Series_2000_IS_Output_(5.2).HSL4
1F27-MVD_Series_1000_IS_Output	(RA-LIB)_ACM_2.00_Module_HART_Device_1F27-MVD_Series_1000_IS_Output_(5.2).HSL4
1F29-MVD_Series_1000_Analog_Output	(RA-LIB)_ACM_2.00_Module_HART_Device_1F29-MVD_Series_1000_Analog_Output_(5.2).HSL4
1F2A-MVD_Series_2000_Analog_Output	(RA-LIB)_ACM_2.00_Module_HART_Device_1F2A-MVD_Series_2000_Analog_Output_(5.2).HSL4
1F34-Mass_flo_2400S	(RA-LIB)_ACM_2.00_Module_HART_Device_1F34-Mass_flo_2400S_(5.2).HSL4
1F3A-Analog_2200S	(RA-LIB)_ACM_2.00_Module_HART_Device_1F3A-Analog_2200S_(5.2).HSL4
1F3D-Density_Gas_Viscosity_Meter	(RA-LIB)_ACM_2.00_Module_HART_Device_1F3D-Density_Gas_Viscosity_Meter_(5.2).HSL4
1F41-MVD_Series_3000	(RA-LIB)_ACM_2.00_Module_HART_Device_1F41-MVD_Series_3000_(5.2).HSL4
1F46-Configurable_I_O_5700	(RA-LIB)_ACM_2.00_Module_HART_Device_1F46-Configurable_I_O_5700_(5.2).HSL4
1F47-MM_5700_with_Intrinsically_Safe_Outputs	(RA-LIB)_ACM_2.00_Module_HART_Device_1F47-MM_5700_with_Intrinsically_Safe_Outputs_(5.2).HSL4
1F4B-MM_4200	(RA-LIB)_ACM_2.00_Module_HART_Device_1F4B-MM_4200_(5.2).HSL4
2001-TRZ	(RA-LIB)_ACM_2.00_Module_HART_Device_2001-TRZ_(5.2).HSL4
2003-THZ	(RA-LIB)_ACM_2.00_Module_HART_Device_2003-THZ_(5.2).HSL4
2004-THZ2	(RA-LIB)_ACM_2.00_Module_HART_Device_2004-THZ2_(5.2).HSL4
2005-HTZ	(RA-LIB)_ACM_2.00_Module_HART_Device_2005-HTZ_(5.2).HSL4
2006-TCM	(RA-LIB)_ACM_2.00_Module_HART_Device_2006-TCM_(5.2).HSL4
2007-MI_888	(RA-LIB)_ACM_2.00_Module_HART_Device_2007-MI_888_(5.2).HSL4
2008-THZ3_TDZ3	(RA-LIB)_ACM_2.00_Module_HART_Device_2008-THZ3_TDZ3_(5.2).HSL4
2009-STZ	(RA-LIB)_ACM_2.00_Module_HART_Device_2009-STZ_(5.2).HSL4
2602-Temp_3044	(RA-LIB)_ACM_2.00_Module_HART_Device_2602-Temp_3044_(5.2).HSL4
2603-Rosemount_1151	(RA-LIB)_ACM_2.00_Module_HART_Device_2603-Rosemount_1151_(5.2).HSL4
2604-Magmeter	(RA-LIB)_ACM_2.00_Module_HART_Device_2604-Magmeter_(5.2).HSL4
2606-Rosemount_3051	(RA-LIB)_ACM_2.00_Module_HART_Device_2606-Rosemount_3051_(5.2).HSL4
260C-Mag_HS	(RA-LIB)_ACM_2.00_Module_HART_Device_260C-Mag_HS_(5.2).HSL4
260D-Temp_3044C	(RA-LIB)_ACM_2.00_Module_HART_Device_260D-Temp_3044C_(5.2).HSL4
260E-HTG_3001C	(RA-LIB)_ACM_2.00_Module_HART_Device_260E-HTG_3001C_(5.2).HSL4
260F-Rosemount_3051LP	(RA-LIB)_ACM_2.00_Module_HART_Device_260F-Rosemount_3051LP_(5.2).HSL4
2610-Vortex	(RA-LIB)_ACM_2.00_Module_HART_Device_2610-Vortex_(5.2).HSL4
2611-SAM_3201	(RA-LIB)_ACM_2.00_Module_HART_Device_2611-SAM_3201_(5.2).HSL4
2613-SAM_3202	(RA-LIB)_ACM_2.00_Module_HART_Device_2613-SAM_3202_(5.2).HSL4
2614-HTG_3001S	(RA-LIB)_ACM_2.00_Module_HART_Device_2614-HTG_3001S_(5.2).HSL4
2616-Rosemount_3095MV	(RA-LIB)_ACM_2.00_Module_HART_Device_2616-Rosemount_3095MV_(5.2).HSL4
2618-Temp_644	(RA-LIB)_ACM_2.00_Module_HART_Device_2618-Temp_644_(5.2).HSL4
261D-Tri_Loop	(RA-LIB)_ACM_2.00_Module_HART_Device_261D-Tri_Loop_(5.2).HSL4

HART Device	Application Code Manager File
2624-ProBar	(RA-LIB)_ACM_2.00_Module_HART_Device_2624-ProBar_(5.2).HSL4
2628-ProBar_UC	(RA-LIB)_ACM_2.00_Module_HART_Device_2628-ProBar_UC_(5.2).HSL4
262F-ProPlate_UC	(RA-LIB)_ACM_2.00_Module_HART_Device_262F-ProPlate_UC_(5.2).HSL4
2662-Metran_150	(RA-LIB)_ACM_2.00_Module_HART_Device_2662-Metran_150_(5.2).HSL4
266D-Metran_75	(RA-LIB)_ACM_2.00_Module_HART_Device_266D-Metran_75_(5.2).HSL4
268A-Smart_Pressure_Gauge	(RA-LIB)_ACM_2.00_Module_HART_Device_268A-Smart_Pressure_Gauge_(5.2).HSL4
2801-NEXGEN	(RA-LIB)_ACM_2.00_Module_HART_Device_2801-NEXGEN_(5.2).HSL4
2A04-SITRANS_FUS	(RA-LIB)_ACM_2.00_Module_HART_Device_2A04-SITRANS_FUS_(5.2).HSL4
2A07-SITRANS_LR	(RA-LIB)_ACM_2.00_Module_HART_Device_2A07-SITRANS_LR_(5.2).HSL4
2A08-KM35	(RA-LIB)_ACM_2.00_Module_HART_Device_2A08-KM35_(5.2).HSL4
2A0A-SITRANS_P_HS	(RA-LIB)_ACM_2.00_Module_HART_Device_2A0A-SITRANS_P_HS_(5.2).HSL4
2A0B-SITRANS_P_DS	(RA-LIB)_ACM_2.00_Module_HART_Device_2A0B-SITRANS_P_DS_(5.2).HSL4
2A0C-SITRANS_P_ES	(RA-LIB)_ACM_2.00_Module_HART_Device_2A0C-SITRANS_P_ES_(5.2).HSL4
2A0D-SITRANS_P_MS	(RA-LIB)_ACM_2.00_Module_HART_Device_2A0D-SITRANS_P_MS_(5.2).HSL4
2A10-SITRANS_TW	(RA-LIB)_ACM_2.00_Module_HART_Device_2A10-SITRANS_TW_(5.2).HSL4
2A12-SITRANS_TK_H	(RA-LIB)_ACM_2.00_Module_HART_Device_2A12-SITRANS_TK_H_(5.2).HSL4
2A13-SITRANS_TH300	(RA-LIB)_ACM_2.00_Module_HART_Device_2A13-SITRANS_TH300_(5.2).HSL4
2A15-SIPART_PS2	(RA-LIB)_ACM_2.00_Module_HART_Device_2A15-SIPART_PS2_(5.2).HSL4
2A16-SITRANS_FM	(RA-LIB)_ACM_2.00_Module_HART_Device_2A16-SITRANS_FM_(5.2).HSL4
2A18-SITRANS_FM_MAGFLO	(RA-LIB)_ACM_2.00_Module_HART_Device_2A18-SITRANS_FM_MAGFLO_(5.2).HSL4
2A19-SITRANS_FC_MASSFLO	(RA-LIB)_ACM_2.00_Module_HART_Device_2A19-SITRANS_FC_MASSFLO_(5.2).HSL4
2A1A-SITRANS_FM_IT2_TM2	(RA-LIB)_ACM_2.00_Module_HART_Device_2A1A-SITRANS_FM_IT2_TM2_(5.2).HSL4
2A1D-SITRANS_P300	(RA-LIB)_ACM_2.00_Module_HART_Device_2A1D-SITRANS_P300_(5.2).HSL4
2A1F-SITRANS_TR300	(RA-LIB)_ACM_2.00_Module_HART_Device_2A1F-SITRANS_TR300_(5.2).HSL4
2A20-SITRANS_VP300	(RA-LIB)_ACM_2.00_Module_HART_Device_2A20-SITRANS_VP300_(5.2).HSL4
2A22-SITRANS_FC430	(RA-LIB)_ACM_2.00_Module_HART_Device_2A22-SITRANS_FC430_(5.2).HSL4
2A23-SITRANS_P500	(RA-LIB)_ACM_2.00_Module_HART_Device_2A23-SITRANS_P500_(5.2).HSL4
2A24-SITRANS_LR560	(RA-LIB)_ACM_2.00_Module_HART_Device_2A24-SITRANS_LR560_(5.2).HSL4
2A28-SIPART_PS100	(RA-LIB)_ACM_2.00_Module_HART_Device_2A28-SIPART_PS100_(5.2).HSL4
2A2D-SITRANS_Probe_LU240	(RA-LIB)_ACM_2.00_Module_HART_Device_2A2D-SITRANS_Probe_LU240_(5.2).HSL4
2A34-SITRANS_LUT400	(RA-LIB)_ACM_2.00_Module_HART_Device_2A34-SITRANS_LUT400_(5.2).HSL4
2A3D-SITRANS_P320	(RA-LIB)_ACM_2.00_Module_HART_Device_2A3D-SITRANS_P320_(5.2).HSL4
2A3E-SITRANS_P420	(RA-LIB)_ACM_2.00_Module_HART_Device_2A3E-SITRANS_P420_(5.2).HSL4
2C02-AP3100	(RA-LIB)_ACM_2.00_Module_HART_Device_2C02-AP3100_(5.2).HSL4
2C0A-LF_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_2C0A-LF_Series_(5.2).HSL4
2E06-pH_2081	(RA-LIB)_ACM_2.00_Module_HART_Device_2E06-pH_2081_(5.2).HSL4
2E07-Cond_2081	(RA-LIB)_ACM_2.00_Module_HART_Device_2E07-Cond_2081_(5.2).HSL4
2E0C-Oxymitter_4000	(RA-LIB)_ACM_2.00_Module_HART_Device_2E0C-Oxymitter_4000_(5.2).HSL4
2E0D-WC_3000	(RA-LIB)_ACM_2.00_Module_HART_Device_2E0D-WC_3000_(5.2).HSL4
2E0F-OPM_2000R	(RA-LIB)_ACM_2.00_Module_HART_Device_2E0F-OPM_2000R_(5.2).HSL4
2E10-OCX_4000	(RA-LIB)_ACM_2.00_Module_HART_Device_2E10-OCX_4000_(5.2).HSL4
2E1B-Xmt_A	(RA-LIB)_ACM_2.00_Module_HART_Device_2E1B-Xmt_A_(5.2).HSL4
2E1C-Xmt_C_T	(RA-LIB)_ACM_2.00_Module_HART_Device_2E1C-Xmt_C_T_(5.2).HSL4
2E1D-Xmt_pH	(RA-LIB)_ACM_2.00_Module_HART_Device_2E1D-Xmt_pH_(5.2).HSL4
2E1E-FG_5081	(RA-LIB)_ACM_2.00_Module_HART_Device_2E1E-FG_5081_(5.2).HSL4
2E2B-XS_02	(RA-LIB)_ACM_2.00_Module_HART_Device_2E2B-XS_02_(5.2).HSL4
2E3A-02_6888	(RA-LIB)_ACM_2.00_Module_HART_Device_2E3A-02_6888_(5.2).HSL4

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2E56-Model56	(RA-LIB)_ACM_2.00_Module_HART_Device_2E56-Model56_(5.2).HSL4
2F01-PSMART	(RA-LIB)_ACM_2.00_Module_HART_Device_2F01-PSMART_(5.2).HSL4
2F3C-SMARTPULP	(RA-LIB)_ACM_2.00_Module_HART_Device_2F3C-SMARTPULP_(5.2).HSL4
2F3D-SMARTLX	(RA-LIB)_ACM_2.00_Module_HART_Device_2F3D-SMARTLX_(5.2).HSL4
2F3E-MCAi	(RA-LIB)_ACM_2.00_Module_HART_Device_2F3E-MCAi_(5.2).HSL4
2F3F-SMARTLC	(RA-LIB)_ACM_2.00_Module_HART_Device_2F3F-SMARTLC_(5.2).HSL4
2F40-MCA	(RA-LIB)_ACM_2.00_Module_HART_Device_2F40-MCA_(5.2).HSL4
3001-Logix_12xx	(RA-LIB)_ACM_2.00_Module_HART_Device_3001-Logix_12xx_(5.2).HSL4
3003-Logix_520	(RA-LIB)_ACM_2.00_Module_HART_Device_3003-Logix_520_(5.2).HSL4
3004-Logix3200_IQ	(RA-LIB)_ACM_2.00_Module_HART_Device_3004-Logix3200_IQ_(5.2).HSL4
3005-Logix3200MD	(RA-LIB)_ACM_2.00_Module_HART_Device_3005-Logix3200MD_(5.2).HSL4
3006-Logix520MD	(RA-LIB)_ACM_2.00_Module_HART_Device_3006-Logix520MD_(5.2).HSL4
3007-Logix_MD	(RA-LIB)_ACM_2.00_Module_HART_Device_3007-Logix_MD_(5.2).HSL4
3008-Limitorque_MX_QX	(RA-LIB)_ACM_2.00_Module_HART_Device_3008-Limitorque_MX_QX_(5.2).HSL4
3009-Logix_420	(RA-LIB)_ACM_2.00_Module_HART_Device_3009-Logix_420_(5.2).HSL4
300A-Logix_3820	(RA-LIB)_ACM_2.00_Module_HART_Device_300A-Logix_3820_(5.2).HSL4
300B-Logix_3820e	(RA-LIB)_ACM_2.00_Module_HART_Device_300B-Logix_3820e_(5.2).HSL4
3202-Trim	(RA-LIB)_ACM_2.00_Module_HART_Device_3202-Trim_(5.2).HSL4
322E-I_A_Pressure	(RA-LIB)_ACM_2.00_Module_HART_Device_322E-I_A_Pressure_(5.2).HSL4
3601-MagneW	(RA-LIB)_ACM_2.00_Module_HART_Device_3601-MagneW_(5.2).HSL4
3602-ST3000	(RA-LIB)_ACM_2.00_Module_HART_Device_3602-ST3000_(5.2).HSL4
3603-SVP	(RA-LIB)_ACM_2.00_Module_HART_Device_3603-SVP_(5.2).HSL4
3604-ThermoPlus_ATT	(RA-LIB)_ACM_2.00_Module_HART_Device_3604-ThermoPlus_ATT_(5.2).HSL4
3605-PTG	(RA-LIB)_ACM_2.00_Module_HART_Device_3605-PTG_(5.2).HSL4
3608-MagneW_2W	(RA-LIB)_ACM_2.00_Module_HART_Device_3608-MagneW_2W_(5.2).HSL4
360C-MAGNEW4W	(RA-LIB)_ACM_2.00_Module_HART_Device_360C-MAGNEW4W_(5.2).HSL4
360D-AT9000	(RA-LIB)_ACM_2.00_Module_HART_Device_360D-AT9000_(5.2).HSL4
360E-GASCVD	(RA-LIB)_ACM_2.00_Module_HART_Device_360E-GASCVD_(5.2).HSL4
360F-AVP700	(RA-LIB)_ACM_2.00_Module_HART_Device_360F-AVP700_(5.2).HSL4
3610-AVP700_SIS	(RA-LIB)_ACM_2.00_Module_HART_Device_3610-AVP700_SIS_(5.2).HSL4
3611-AVP307	(RA-LIB)_ACM_2.00_Module_HART_Device_3611-AVP307_(5.2).HSL4
3614-SVP_V2	(RA-LIB)_ACM_2.00_Module_HART_Device_3614-SVP_V2_(5.2).HSL4
3615-ATT082	(RA-LIB)_ACM_2.00_Module_HART_Device_3615-ATT082_(5.2).HSL4
3616-ATT162	(RA-LIB)_ACM_2.00_Module_HART_Device_3616-ATT162_(5.2).HSL4
3701-YEWFLO	(RA-LIB)_ACM_2.00_Module_HART_Device_3701-YEWFLO_(5.2).HSL4
3702-YT200	(RA-LIB)_ACM_2.00_Module_HART_Device_3702-YT200_(5.2).HSL4
3703-UNICOM	(RA-LIB)_ACM_2.00_Module_HART_Device_3703-UNICOM_(5.2).HSL4
3704-EJA	(RA-LIB)_ACM_2.00_Module_HART_Device_3704-EJA_(5.2).HSL4
3705-ADMAG_AE	(RA-LIB)_ACM_2.00_Module_HART_Device_3705-ADMAG_AE_(5.2).HSL4
3706-AM11	(RA-LIB)_ACM_2.00_Module_HART_Device_3706-AM11_(5.2).HSL4
3708-ADMAG_SE	(RA-LIB)_ACM_2.00_Module_HART_Device_3708-ADMAG_SE_(5.2).HSL4
3709-YTA	(RA-LIB)_ACM_2.00_Module_HART_Device_3709-YTA_(5.2).HSL4
370A-YTA70E	(RA-LIB)_ACM_2.00_Module_HART_Device_370A-YTA70E_(5.2).HSL4
370B-DYF	(RA-LIB)_ACM_2.00_Module_HART_Device_370B-DYF_(5.2).HSL4
370C-ZR202	(RA-LIB)_ACM_2.00_Module_HART_Device_370C-ZR202_(5.2).HSL4
370D-ZR402	(RA-LIB)_ACM_2.00_Module_HART_Device_370D-ZR402_(5.2).HSL4
3711-YTA610	(RA-LIB)_ACM_2.00_Module_HART_Device_3711-YTA610_(5.2).HSL4

HART Device	Application Code Manager File
3712-FLXA402	(RA-LIB)_ACM_2.00_Module_HART_Device_3712-FLXA402_(5.2).HSL4
3714-ISC202	(RA-LIB)_ACM_2.00_Module_HART_Device_3714-ISC202_(5.2).HSL4
3715-PH202	(RA-LIB)_ACM_2.00_Module_HART_Device_3715-PH202_(5.2).HSL4
3716-SC202	(RA-LIB)_ACM_2.00_Module_HART_Device_3716-SC202_(5.2).HSL4
3718-DO202	(RA-LIB)_ACM_2.00_Module_HART_Device_3718-DO202_(5.2).HSL4
371A-AXG4A	(RA-LIB)_ACM_2.00_Module_HART_Device_371A-AXG4A_(5.2).HSL4
371B-AXW4A	(RA-LIB)_ACM_2.00_Module_HART_Device_371B-AXW4A_(5.2).HSL4
371C-AXG1A	(RA-LIB)_ACM_2.00_Module_HART_Device_371C-AXG1A_(5.2).HSL4
3720-SF14A	(RA-LIB)_ACM_2.00_Module_HART_Device_3720-SF14A_(5.2).HSL4
3721-ZR802	(RA-LIB)_ACM_2.00_Module_HART_Device_3721-ZR802_(5.2).HSL4
3727-PH150	(RA-LIB)_ACM_2.00_Module_HART_Device_3727-PH150_(5.2).HSL4
3728-SC150	(RA-LIB)_ACM_2.00_Module_HART_Device_3728-SC150_(5.2).HSL4
372B-PH450	(RA-LIB)_ACM_2.00_Module_HART_Device_372B-PH450_(5.2).HSL4
372C-SC450	(RA-LIB)_ACM_2.00_Module_HART_Device_372C-SC450_(5.2).HSL4
372D-ISC450	(RA-LIB)_ACM_2.00_Module_HART_Device_372D-ISC450_(5.2).HSL4
373C-YTA70E_Z	(RA-LIB)_ACM_2.00_Module_HART_Device_373C-YTA70E_Z_(5.2).HSL4
373D-YTA70_J	(RA-LIB)_ACM_2.00_Module_HART_Device_373D-YTA70_J_(5.2).HSL4
373E-TDLS8000	(RA-LIB)_ACM_2.00_Module_HART_Device_373E-TDLS8000_(5.2).HSL4
373F-YTA70P	(RA-LIB)_ACM_2.00_Module_HART_Device_373F-YTA70P_(5.2).HSL4
3740-ROTAMASS	(RA-LIB)_ACM_2.00_Module_HART_Device_3740-ROTAMASS_(5.2).HSL4
3741-RAMC	(RA-LIB)_ACM_2.00_Module_HART_Device_3741-RAMC_(5.2).HSL4
3742-RCCT_F3	(RA-LIB)_ACM_2.00_Module_HART_Device_3742-RCCT_F3_(5.2).HSL4
3750-AXFA11	(RA-LIB)_ACM_2.00_Module_HART_Device_3750-AXFA11_(5.2).HSL4
3751-EJX	(RA-LIB)_ACM_2.00_Module_HART_Device_3751-EJX_(5.2).HSL4
3752-AXFA14	(RA-LIB)_ACM_2.00_Module_HART_Device_3752-AXFA14_(5.2).HSL4
3753-AV550G	(RA-LIB)_ACM_2.00_Module_HART_Device_3753-AV550G_(5.2).HSL4
3754-EJX_MV	(RA-LIB)_ACM_2.00_Module_HART_Device_3754-EJX_MV_(5.2).HSL4
3755-EJX_DRS	(RA-LIB)_ACM_2.00_Module_HART_Device_3755-EJX_DRS_(5.2).HSL4
3757-AXR	(RA-LIB)_ACM_2.00_Module_HART_Device_3757-AXR_(5.2).HSL4
3758-FLXA21_PH	(RA-LIB)_ACM_2.00_Module_HART_Device_3758-FLXA21_PH_(5.2).HSL4
3759-FLXA21_202_SC	(RA-LIB)_ACM_2.00_Module_HART_Device_3759-FLXA21_202_SC_(5.2).HSL4
375A-FLXA21_202_ISC	(RA-LIB)_ACM_2.00_Module_HART_Device_375A-FLXA21_202_ISC_(5.2).HSL4
375B-FLXA21_DO	(RA-LIB)_ACM_2.00_Module_HART_Device_375B-FLXA21_DO_(5.2).HSL4
375C-EJA_NEXT	(RA-LIB)_ACM_2.00_Module_HART_Device_375C-EJA_NEXT_(5.2).HSL4
375D-EJA_NEXT_LP	(RA-LIB)_ACM_2.00_Module_HART_Device_375D-EJA_NEXT_LP_(5.2).HSL4
375F-YTA710	(RA-LIB)_ACM_2.00_Module_HART_Device_375F-YTA710_(5.2).HSL4
3760-ROTAMASS_TI	(RA-LIB)_ACM_2.00_Module_HART_Device_3760-ROTAMASS_TI_(5.2).HSL4
3B15-MSP100	(RA-LIB)_ACM_2.00_Module_HART_Device_3B15-MSP100_(5.2).HSL4
3B29-MLT100	(RA-LIB)_ACM_2.00_Module_HART_Device_3B29-MLT100_(5.2).HSL4
3B2B-MSM400	(RA-LIB)_ACM_2.00_Module_HART_Device_3B2B-MSM400_(5.2).HSL4
3B2E-MSP900_400	(RA-LIB)_ACM_2.00_Module_HART_Device_3B2E-MSP900_400_(5.2).HSL4
3B2F-MRL700	(RA-LIB)_ACM_2.00_Module_HART_Device_3B2F-MRL700_(5.2).HSL4
3E01-LD301	(RA-LIB)_ACM_2.00_Module_HART_Device_3E01-LD301_(5.2).HSL4
3E02-TT301	(RA-LIB)_ACM_2.00_Module_HART_Device_3E02-TT301_(5.2).HSL4
3E03-FY301	(RA-LIB)_ACM_2.00_Module_HART_Device_3E03-FY301_(5.2).HSL4
3E04-LD291	(RA-LIB)_ACM_2.00_Module_HART_Device_3E04-LD291_(5.2).HSL4
3E05-TP301	(RA-LIB)_ACM_2.00_Module_HART_Device_3E05-TP301_(5.2).HSL4

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3E06-DT301	(RA-LIB)_ACM_2.00_Module_HART_Device_3E06-DT301_(5.2).HSL4
3E09-TT400	(RA-LIB)_ACM_2.00_Module_HART_Device_3E09-TT400_(5.2).HSL4
3E0A-LD400	(RA-LIB)_ACM_2.00_Module_HART_Device_3E0A-LD400_(5.2).HSL4
3F01-TSV175	(RA-LIB)_ACM_2.00_Module_HART_Device_3F01-TSV175_(5.2).HSL4
3F02-DMU130	(RA-LIB)_ACM_2.00_Module_HART_Device_3F02-DMU130_(5.2).HSL4
3F03-TI_RTT20	(RA-LIB)_ACM_2.00_Module_HART_Device_3F03-TI_RTT20_(5.2).HSL4
3F04-SRD991	(RA-LIB)_ACM_2.00_Module_HART_Device_3F04-SRD991_(5.2).HSL4
3F05-DMU140	(RA-LIB)_ACM_2.00_Module_HART_Device_3F05-DMU140_(5.2).HSL4
3F06-SRD960	(RA-LIB)_ACM_2.00_Module_HART_Device_3F06-SRD960_(5.2).HSL4
3F07-LD244	(RA-LIB)_ACM_2.00_Module_HART_Device_3F07-LD244_(5.2).HSL4
3F08-SRD998	(RA-LIB)_ACM_2.00_Module_HART_Device_3F08-SRD998_(5.2).HSL4
3FD0-LR01	(RA-LIB)_ACM_2.00_Module_HART_Device_3FD0-LR01_(5.2).HSL4
3FD7-LG01	(RA-LIB)_ACM_2.00_Module_HART_Device_3FD7-LG01_(5.2).HSL4
42EB-TROVIS_3730_3	(RA-LIB)_ACM_2.00_Module_HART_Device_42EB-TROVIS_3730_3_(5.2).HSL4
42EC-TROVIS_SAFE_3793	(RA-LIB)_ACM_2.00_Module_HART_Device_42EC-TROVIS_SAFE_3793_(5.2).HSL4
42ED-TROVIS_3793	(RA-LIB)_ACM_2.00_Module_HART_Device_42ED-TROVIS_3793_(5.2).HSL4
43EE-FM6XX	(RA-LIB)_ACM_2.00_Module_HART_Device_43EE-FM6XX_(5.2).HSL4
45AD-OPTISYS_IND_8100	(RA-LIB)_ACM_2.00_Module_HART_Device_45AD-OPTISYS_IND_8100_(5.2).HSL4
45AE-OPTIFLEX_3200_6200_7200_8200	(RA-LIB)_ACM_2.00_Module_HART_Device_45AE-OPTIFLEX_3200_6200_7200_8200_(5.2).HSL4
45AF-UFC300_V2	(RA-LIB)_ACM_2.00_Module_HART_Device_45AF-UFC300_V2_(5.2).HSL4
45B9-OPTIWAVE_x400_x500	(RA-LIB)_ACM_2.00_Module_HART_Device_45B9-OPTIWAVE_x400_x500_(5.2).HSL4
45BA-ESK3x	(RA-LIB)_ACM_2.00_Module_HART_Device_45BA-ESK3x_(5.2).HSL4
45BB-MFC_400_S	(RA-LIB)_ACM_2.00_Module_HART_Device_45BB-MFC_400_S_(5.2).HSL4
45BC-OPTIBAR_5060_SIL	(RA-LIB)_ACM_2.00_Module_HART_Device_45BC-OPTIBAR_5060_SIL_(5.2).HSL4
45BD-OPTIBAR_7060_SIL	(RA-LIB)_ACM_2.00_Module_HART_Device_45BD-OPTIBAR_7060_SIL_(5.2).HSL4
45BE-ESK4A	(RA-LIB)_ACM_2.00_Module_HART_Device_45BE-ESK4A_(5.2).HSL4
45BF-OPTIWAVE_1010	(RA-LIB)_ACM_2.00_Module_HART_Device_45BF-OPTIWAVE_1010_(5.2).HSL4
45C2-SMARTPAT_COND	(RA-LIB)_ACM_2.00_Module_HART_Device_45C2-SMARTPAT_COND_(5.2).HSL4
45C3-SMARTSENS_ORP	(RA-LIB)_ACM_2.00_Module_HART_Device_45C3-SMARTSENS_ORP_(5.2).HSL4
45C4-OPTIBAR_5060	(RA-LIB)_ACM_2.00_Module_HART_Device_45C4-OPTIBAR_5060_(5.2).HSL4
45C5-OPTIBAR_DP_7060_C	(RA-LIB)_ACM_2.00_Module_HART_Device_45C5-OPTIBAR_DP_7060_C_(5.2).HSL4
45C6-SMARTSENS_PH	(RA-LIB)_ACM_2.00_Module_HART_Device_45C6-SMARTSENS_PH_(5.2).HSL4
45C7-TT53_C_R_Ex	(RA-LIB)_ACM_2.00_Module_HART_Device_45C7-TT53_C_R_Ex_(5.2).HSL4
45CC-MFC400	(RA-LIB)_ACM_2.00_Module_HART_Device_45CC-MFC400_(5.2).HSL4
45CD-VFC200	(RA-LIB)_ACM_2.00_Module_HART_Device_45CD-VFC200_(5.2).HSL4
45CF-MAC100	(RA-LIB)_ACM_2.00_Module_HART_Device_45CF-MAC100_(5.2).HSL4
45D0-Optiwave_5200_C_F	(RA-LIB)_ACM_2.00_Module_HART_Device_45D0-Optiwave_5200_C_F_(5.2).HSL4
45D2-UFC400	(RA-LIB)_ACM_2.00_Module_HART_Device_45D2-UFC400_(5.2).HSL4
45D3-TT51C_R	(RA-LIB)_ACM_2.00_Module_HART_Device_45D3-TT51C_R_(5.2).HSL4
45D6-ESK4	(RA-LIB)_ACM_2.00_Module_HART_Device_45D6-ESK4_(5.2).HSL4
45D7-OPTIFLEX_2200	(RA-LIB)_ACM_2.00_Module_HART_Device_45D7-OPTIFLEX_2200_(5.2).HSL4
45D9-IFC_100	(RA-LIB)_ACM_2.00_Module_HART_Device_45D9-IFC_100_(5.2).HSL4
45DB-TT50C_R	(RA-LIB)_ACM_2.00_Module_HART_Device_45DB-TT50C_R_(5.2).HSL4
45DD-MFC_300	(RA-LIB)_ACM_2.00_Module_HART_Device_45DD-MFC_300_(5.2).HSL4
45DE-VFC070	(RA-LIB)_ACM_2.00_Module_HART_Device_45DE-VFC070_(5.2).HSL4
45E2-ESK2A	(RA-LIB)_ACM_2.00_Module_HART_Device_45E2-ESK2A_(5.2).HSL4
45E3-IFC_300	(RA-LIB)_ACM_2.00_Module_HART_Device_45E3-IFC_300_(5.2).HSL4

HART Device	Application Code Manager File
45E4-Optiflex_1300C	(RA-LIB)_ACM_2.00_Module_HART_Device_45E4-Optiflex_1300C_(5.2).HSL4
45E5-Optiwave_7300C	(RA-LIB)_ACM_2.00_Module_HART_Device_45E5-Optiwave_7300C_(5.2).HSL4
45E6-M8E	(RA-LIB)_ACM_2.00_Module_HART_Device_45E6-M8E_(5.2).HSL4
45E7-UFC030	(RA-LIB)_ACM_2.00_Module_HART_Device_45E7-UFC030_(5.2).HSL4
45E8-MFC05x	(RA-LIB)_ACM_2.00_Module_HART_Device_45E8-MFC05x_(5.2).HSL4
45E9-IFC040	(RA-LIB)_ACM_2.00_Module_HART_Device_45E9-IFC040_(5.2).HSL4
45EA-M10	(RA-LIB)_ACM_2.00_Module_HART_Device_45EA-M10_(5.2).HSL4
45EC-BM102	(RA-LIB)_ACM_2.00_Module_HART_Device_45EC-BM102_(5.2).HSL4
45ED-VFM31	(RA-LIB)_ACM_2.00_Module_HART_Device_45ED-VFM31_(5.2).HSL4
45EE-BM100	(RA-LIB)_ACM_2.00_Module_HART_Device_45EE-BM100_(5.2).HSL4
45F2-ESKII	(RA-LIB)_ACM_2.00_Module_HART_Device_45F2-ESKII_(5.2).HSL4
45F3-IFC110	(RA-LIB)_ACM_2.00_Module_HART_Device_45F3-IFC110_(5.2).HSL4
45F4-IFC090	(RA-LIB)_ACM_2.00_Module_HART_Device_45F4-IFC090_(5.2).HSL4
45F5-UFC500	(RA-LIB)_ACM_2.00_Module_HART_Device_45F5-UFC500_(5.2).HSL4
45F7-MFC08x	(RA-LIB)_ACM_2.00_Module_HART_Device_45F7-MFC08x_(5.2).HSL4
45F8-IFC080	(RA-LIB)_ACM_2.00_Module_HART_Device_45F8-IFC080_(5.2).HSL4
45F9-BM70	(RA-LIB)_ACM_2.00_Module_HART_Device_45F9-BM70_(5.2).HSL4
47E9-RTX1000H_Gauge	(RA-LIB)_ACM_2.00_Module_HART_Device_47E9-RTX1000H_Gauge_(5.2).HSL4
47EC-RTX1000H_SG	(RA-LIB)_ACM_2.00_Module_HART_Device_47EC-RTX1000H_SG_(5.2).HSL4
47EF-RTX1000H_ABS	(RA-LIB)_ACM_2.00_Module_HART_Device_47EF-RTX1000H_ABS_(5.2).HSL4
4800-Series_815	(RA-LIB)_ACM_2.00_Module_HART_Device_4800-Series_815_(5.2).HSL4
4D01-ICOT	(RA-LIB)_ACM_2.00_Module_HART_Device_4D01-ICOT_(5.2).HSL4
4D02-SmartCal	(RA-LIB)_ACM_2.00_Module_HART_Device_4D02-SmartCal_(5.2).HSL4
4D03-D_EPIC	(RA-LIB)_ACM_2.00_Module_HART_Device_4D03-D_EPIC_(5.2).HSL4
4D04-D_EPIC_ESD	(RA-LIB)_ACM_2.00_Module_HART_Device_4D04-D_EPIC_ESD_(5.2).HSL4
4D05-Digital_EPIC_2	(RA-LIB)_ACM_2.00_Module_HART_Device_4D05-Digital_EPIC_2_(5.2).HSL4
4D06-Digital_Epic_D200	(RA-LIB)_ACM_2.00_Module_HART_Device_4D06-Digital_Epic_D200_(5.2).HSL4
4E02-UNIVERSAL_III	(RA-LIB)_ACM_2.00_Module_HART_Device_4E02-UNIVERSAL_III_(5.2).HSL4
4EEA-Radar_DRx400_DRx500	(RA-LIB)_ACM_2.00_Module_HART_Device_4EEA-Radar_DRx400_DRx500_(5.2).HSL4
4EEC-DR2000	(RA-LIB)_ACM_2.00_Module_HART_Device_4EEC-DR2000_(5.2).HSL4
4EED-DR5200	(RA-LIB)_ACM_2.00_Module_HART_Device_4EED-DR5200_(5.2).HSL4
4FEF-TankRadarPro	(RA-LIB)_ACM_2.00_Module_HART_Device_4FEF-TankRadarPro_(5.2).HSL4
5072-AT100_200_Lvl_Vol_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_5072-AT100_200_Lvl_Vol_LCD_(5.2).HSL4
5073-AT100_200_2Lvl_Vol_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_5073-AT100_200_2Lvl_Vol_LCD_(5.2).HSL4
5076-AT100_200_Lvl_Temp_Vol_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_5076-AT100_200_Lvl_Temp_Vol_LCD_(5.2).HSL4
5077-AT100_200_2Lvl_Temp_Vol_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_5077-AT100_200_2Lvl_Temp_Vol_LCD_(5.2).HSL4
5078-AT100_200_Lvl	(RA-LIB)_ACM_2.00_Module_HART_Device_5078-AT100_200_Lvl_(5.2).HSL4
507A-AT100_200_Lvl_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_507A-AT100_200_Lvl_LCD_(5.2).HSL4
507B-AT100_200_2Lvl_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_507B-AT100_200_2Lvl_LCD_(5.2).HSL4
507E-AT100_200_Lvl_Temp_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_507E-AT100_200_Lvl_Temp_LCD_(5.2).HSL4
507F-AT100_200_2Lvl_Temp_LCD	(RA-LIB)_ACM_2.00_Module_HART_Device_507F-AT100_200_2Lvl_Temp_LCD_(5.2).HSL4
50AA-MT5000	(RA-LIB)_ACM_2.00_Module_HART_Device_50AA-MT5000_(5.2).HSL4
50AB-MT5100	(RA-LIB)_ACM_2.00_Module_HART_Device_50AB-MT5100_(5.2).HSL4
50BA-MT5200	(RA-LIB)_ACM_2.00_Module_HART_Device_50BA-MT5200_(5.2).HSL4
50C2-SS140XP	(RA-LIB)_ACM_2.00_Module_HART_Device_50C2-SS140XP_(5.2).HSL4
52E8-Polytron_8000	(RA-LIB)_ACM_2.00_Module_HART_Device_52E8-Polytron_8000_(5.2).HSL4
52E9-PIR7000	(RA-LIB)_ACM_2.00_Module_HART_Device_52E9-PIR7000_(5.2).HSL4

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52EB-Polytron_7000	(RA-LIB)_ACM_2.00_Module_HART_Device_52EB-Polytron_7000_(5.2).HSL4
52ED-Polytron2_IR	(RA-LIB)_ACM_2.00_Module_HART_Device_52ED-Polytron2_IR_(5.2).HSL4
52EE-PIR_7x00	(RA-LIB)_ACM_2.00_Module_HART_Device_52EE-PIR_7x00_(5.2).HSL4
52EF-Pulsar_7x00	(RA-LIB)_ACM_2.00_Module_HART_Device_52EF-Pulsar_7x00_(5.2).HSL4
52F1-Polytron_PID	(RA-LIB)_ACM_2.00_Module_HART_Device_52F1-Polytron_PID_(5.2).HSL4
52F7-Polytron2	(RA-LIB)_ACM_2.00_Module_HART_Device_52F7-Polytron2_(5.2).HSL4
54F8-MSP2002	(RA-LIB)_ACM_2.00_Module_HART_Device_54F8-MSP2002_(5.2).HSL4
54F9-MST9500	(RA-LIB)_ACM_2.00_Module_HART_Device_54F9-MST9500_(5.2).HSL4
55DE-HCM_8000	(RA-LIB)_ACM_2.00_Module_HART_Device_55DE-HCM_8000_(5.2).HSL4
56DC-Eclipse_Model_700_Level_Transmitter	(RA-LIB)_ACM_2.00_Module_HART_Device_56DC-Eclipse_Model_700_Level_Transmitter_(5.2).HSL4
56DF-Jupiter_Model_JM4	(RA-LIB)_ACM_2.00_Module_HART_Device_56DF-Jupiter_Model_JM4_(5.2).HSL4
56E0-Model_706	(RA-LIB)_ACM_2.00_Module_HART_Device_56E0-Model_706_(5.2).HSL4
56E2-Model_R82	(RA-LIB)_ACM_2.00_Module_HART_Device_56E2-Model_R82_(5.2).HSL4
56E3-E3_Modulevel	(RA-LIB)_ACM_2.00_Module_HART_Device_56E3-E3_Modulevel_(5.2).HSL4
56E4-Model_355	(RA-LIB)_ACM_2.00_Module_HART_Device_56E4-Model_355_(5.2).HSL4
56E6-Model_RX5	(RA-LIB)_ACM_2.00_Module_HART_Device_56E6-Model_RX5_(5.2).HSL4
56E7-Model_704	(RA-LIB)_ACM_2.00_Module_HART_Device_56E7-Model_704_(5.2).HSL4
56E8-Jupiter	(RA-LIB)_ACM_2.00_Module_HART_Device_56E8-Jupiter_(5.2).HSL4
56E9-Model_TA2	(RA-LIB)_ACM_2.00_Module_HART_Device_56E9-Model_TA2_(5.2).HSL4
56EA-Model_707	(RA-LIB)_ACM_2.00_Module_HART_Device_56EA-Model_707_(5.2).HSL4
56EC-Model_708	(RA-LIB)_ACM_2.00_Module_HART_Device_56EC-Model_708_(5.2).HSL4
56ED-Model_805	(RA-LIB)_ACM_2.00_Module_HART_Device_56ED-Model_805_(5.2).HSL4
56EE-Model_805	(RA-LIB)_ACM_2.00_Module_HART_Device_56EE-Model_805_(5.2).HSL4
56EF-SMARTEZ	(RA-LIB)_ACM_2.00_Module_HART_Device_56EF-SMARTEZ_(5.2).HSL4
57A2-NDX_H6	(RA-LIB)_ACM_2.00_Module_HART_Device_57A2-NDX_H6_(5.2).HSL4
57A3-NDX_H7	(RA-LIB)_ACM_2.00_Module_HART_Device_57A3-NDX_H7_(5.2).HSL4
57D5-SG9000H	(RA-LIB)_ACM_2.00_Module_HART_Device_57D5-SG9000H_(5.2).HSL4
57D9-VG9000H	(RA-LIB)_ACM_2.00_Module_HART_Device_57D9-VG9000H_(5.2).HSL4
57DE-ND7000H	(RA-LIB)_ACM_2.00_Module_HART_Device_57DE-ND7000H_(5.2).HSL4
57E4-ND9100HT	(RA-LIB)_ACM_2.00_Module_HART_Device_57E4-ND9100HT_(5.2).HSL4
57E5-ND9100H	(RA-LIB)_ACM_2.00_Module_HART_Device_57E5-ND9100H_(5.2).HSL4
57EB-ValvGuard	(RA-LIB)_ACM_2.00_Module_HART_Device_57EB-ValvGuard_(5.2).HSL4
57EE-ND820_T	(RA-LIB)_ACM_2.00_Module_HART_Device_57EE-ND820_T_(5.2).HSL4
57EF-ND820	(RA-LIB)_ACM_2.00_Module_HART_Device_57EF-ND820_(5.2).HSL4
57F1-VG9000H_H7	(RA-LIB)_ACM_2.00_Module_HART_Device_57F1-VG9000H_H7_(5.2).HSL4
58C9-SITRANS_LR300	(RA-LIB)_ACM_2.00_Module_HART_Device_58C9-SITRANS_LR300_(5.2).HSL4
58CA-LR_200	(RA-LIB)_ACM_2.00_Module_HART_Device_58CA-LR_200_(5.2).HSL4
58CC-SITRANS_LR400	(RA-LIB)_ACM_2.00_Module_HART_Device_58CC-SITRANS_LR400_(5.2).HSL4
58CD-Sitrans_Probe_LU_6m	(RA-LIB)_ACM_2.00_Module_HART_Device_58CD-Sitrans_Probe_LU_6m_(5.2).HSL4
58CE-Sitrans_Probe_LU_12m	(RA-LIB)_ACM_2.00_Module_HART_Device_58CE-Sitrans_Probe_LU_12m_(5.2).HSL4
58CF-Probe_LR	(RA-LIB)_ACM_2.00_Module_HART_Device_58CF-Probe_LR_(5.2).HSL4
58D1-SITRANS_LR250	(RA-LIB)_ACM_2.00_Module_HART_Device_58D1-SITRANS_LR250_(5.2).HSL4
58D3-SITRANS_LR460	(RA-LIB)_ACM_2.00_Module_HART_Device_58D3-SITRANS_LR460_(5.2).HSL4
58D4-SITRANS_LR260	(RA-LIB)_ACM_2.00_Module_HART_Device_58D4-SITRANS_LR260_(5.2).HSL4
58D6-SITRANS_LR200	(RA-LIB)_ACM_2.00_Module_HART_Device_58D6-SITRANS_LR200_(5.2).HSL4
5AC8-ANDRSN1	(RA-LIB)_ACM_2.00_Module_HART_Device_5AC8-ANDRSN1_(5.2).HSL4
5ACC-L3	(RA-LIB)_ACM_2.00_Module_HART_Device_5ACC-L3_(5.2).HSL4

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5BEA-IPAQ_C530_R530_X	(RA-LIB)_ACM_2.00_Module_HART_Device_5BEA-IPAQ_C530_R530_X_(5.2).HSL4
5BEB-C520_R520	(RA-LIB)_ACM_2.00_Module_HART_Device_5BEB-C520_R520_(5.2).HSL4
60EC-AF14_AF15_CombiLyz	(RA-LIB)_ACM_2.00_Module_HART_Device_60EC-AF14_AF15_CombiLyz_(5.2).HSL4
60ED-FLEXBAR_3501	(RA-LIB)_ACM_2.00_Module_HART_Device_60ED-FLEXBAR_3501_(5.2).HSL4
60EE-FLEXBAR_HRT	(RA-LIB)_ACM_2.00_Module_HART_Device_60EE-FLEXBAR_HRT_(5.2).HSL4
60EF-FLEXTOP_HRT	(RA-LIB)_ACM_2.00_Module_HART_Device_60EF-FLEXTOP_HRT_(5.2).HSL4
61CD-Straros_Multi_E401	(RA-LIB)_ACM_2.00_Module_HART_Device_61CD-Straros_Multi_E401_(5.2).HSL4
61CE-MemoTrans_MT201	(RA-LIB)_ACM_2.00_Module_HART_Device_61CE-MemoTrans_MT201_(5.2).HSL4
61E0-A411_CONDI	(RA-LIB)_ACM_2.00_Module_HART_Device_61E0-A411_CONDI_(5.2).HSL4
61E1-A411_COND	(RA-LIB)_ACM_2.00_Module_HART_Device_61E1-A411_COND_(5.2).HSL4
61E2-A411_OXY	(RA-LIB)_ACM_2.00_Module_HART_Device_61E2-A411_OXY_(5.2).HSL4
61E3-A411_PH	(RA-LIB)_ACM_2.00_Module_HART_Device_61E3-A411_PH_(5.2).HSL4
61E4-Stratos_Pro_CONDI	(RA-LIB)_ACM_2.00_Module_HART_Device_61E4-Stratos_Pro_CONDI_(5.2).HSL4
61E5-Stratos_Pro_Cond	(RA-LIB)_ACM_2.00_Module_HART_Device_61E5-Stratos_Pro_Cond_(5.2).HSL4
61E6-Stratos_Pro_OXY	(RA-LIB)_ACM_2.00_Module_HART_Device_61E6-Stratos_Pro_OXY_(5.2).HSL4
61E7-Stratos_Pro_pH	(RA-LIB)_ACM_2.00_Module_HART_Device_61E7-Stratos_Pro_pH_(5.2).HSL4
61E8-Condl_2211	(RA-LIB)_ACM_2.00_Module_HART_Device_61E8-Condl_2211_(5.2).HSL4
61E9-Oxy_2211	(RA-LIB)_ACM_2.00_Module_HART_Device_61E9-Oxy_2211_(5.2).HSL4
61EA-Cond_2211	(RA-LIB)_ACM_2.00_Module_HART_Device_61EA-Cond_2211_(5.2).HSL4
61EB-pH_2211	(RA-LIB)_ACM_2.00_Module_HART_Device_61EB-pH_2211_(5.2).HSL4
62BC-VEGAPULS_20_30_series	(RA-LIB)_ACM_2.00_Module_HART_Device_62BC-VEGAPULS_20_30_series_(5.2).HSL4
62BD-VEGAPULS_C_20_series	(RA-LIB)_ACM_2.00_Module_HART_Device_62BD-VEGAPULS_C_20_series_(5.2).HSL4
62BE-VEGAPULS_64	(RA-LIB)_ACM_2.00_Module_HART_Device_62BE-VEGAPULS_64_(5.2).HSL4
62BF-VEGADIF_80_series_SIL	(RA-LIB)_ACM_2.00_Module_HART_Device_62BF-VEGADIF_80_series_SIL_(5.2).HSL4
62C0-VEGADIF_80_series	(RA-LIB)_ACM_2.00_Module_HART_Device_62C0-VEGADIF_80_series_(5.2).HSL4
62C1-VEGAPULS_69	(RA-LIB)_ACM_2.00_Module_HART_Device_62C1-VEGAPULS_69_(5.2).HSL4
62C2-VEGABAR_80_series_SIL	(RA-LIB)_ACM_2.00_Module_HART_Device_62C2-VEGABAR_80_series_SIL_(5.2).HSL4
62C3-VEGABAR_80_series	(RA-LIB)_ACM_2.00_Module_HART_Device_62C3-VEGABAR_80_series_(5.2).HSL4
62C5-POINTRAC_31	(RA-LIB)_ACM_2.00_Module_HART_Device_62C5-POINTRAC_31_(5.2).HSL4
62C6-VEGAPULS_SR_68	(RA-LIB)_ACM_2.00_Module_HART_Device_62C6-VEGAPULS_SR_68_(5.2).HSL4
62C7-VEGAPULS_WL_61	(RA-LIB)_ACM_2.00_Module_HART_Device_62C7-VEGAPULS_WL_61_(5.2).HSL4
62C8-FIBERTRAC_31	(RA-LIB)_ACM_2.00_Module_HART_Device_62C8-FIBERTRAC_31_(5.2).HSL4
62C9-FIBERTRAC_32	(RA-LIB)_ACM_2.00_Module_HART_Device_62C9-FIBERTRAC_32_(5.2).HSL4
62CA-SOLITRAC_31	(RA-LIB)_ACM_2.00_Module_HART_Device_62CA-SOLITRAC_31_(5.2).HSL4
62CB-MINITRAC_31	(RA-LIB)_ACM_2.00_Module_HART_Device_62CB-MINITRAC_31_(5.2).HSL4
62CC-MINITRAC_32	(RA-LIB)_ACM_2.00_Module_HART_Device_62CC-MINITRAC_32_(5.2).HSL4
62CD-MINITRAC_33	(RA-LIB)_ACM_2.00_Module_HART_Device_62CD-MINITRAC_33_(5.2).HSL4
62D4-VEGAFLEX_80_series_SIL	(RA-LIB)_ACM_2.00_Module_HART_Device_62D4-VEGAFLEX_80_series_SIL_(5.2).HSL4
62D5-VEGAFLEX_80_series	(RA-LIB)_ACM_2.00_Module_HART_Device_62D5-VEGAFLEX_80_series_(5.2).HSL4
62D6-VEGAPULS_68	(RA-LIB)_ACM_2.00_Module_HART_Device_62D6-VEGAPULS_68_(5.2).HSL4
62D7-VEGAPULS_67	(RA-LIB)_ACM_2.00_Module_HART_Device_62D7-VEGAPULS_67_(5.2).HSL4
62D8-VEGAPULS_66	(RA-LIB)_ACM_2.00_Module_HART_Device_62D8-VEGAPULS_66_(5.2).HSL4
62D9-VEGAPULS_65	(RA-LIB)_ACM_2.00_Module_HART_Device_62D9-VEGAPULS_65_(5.2).HSL4
62DA-VEGAPULS_63	(RA-LIB)_ACM_2.00_Module_HART_Device_62DA-VEGAPULS_63_(5.2).HSL4
62DB-VEGAPULS_62	(RA-LIB)_ACM_2.00_Module_HART_Device_62DB-VEGAPULS_62_(5.2).HSL4
62DC-VEGAPULS_61	(RA-LIB)_ACM_2.00_Module_HART_Device_62DC-VEGAPULS_61_(5.2).HSL4
62E1-VEGADIF_65	(RA-LIB)_ACM_2.00_Module_HART_Device_62E1-VEGADIF_65_(5.2).HSL4

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62E2-VEGABAR_5x_6x	(RA-LIB)_ACM_2.00_Module_HART_Device_62E2-VEGABAR_5x_6x_(5.2).HSL4
63ED-M_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_63ED-M_Series_(5.2).HSL4
63EE-LIPSIL	(RA-LIB)_ACM_2.00_Module_HART_Device_63EE-LIPSIL_(5.2).HSL4
63EF-LP_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_63EF-LP_Series_(5.2).HSL4
6464-ULTRAOVAL	(RA-LIB)_ACM_2.00_Module_HART_Device_6464-ULTRAOVAL_(5.2).HSL4
6465-ExDelta	(RA-LIB)_ACM_2.00_Module_HART_Device_6465-ExDelta_(5.2).HSL4
646E-Mass_flo_9401	(RA-LIB)_ACM_2.00_Module_HART_Device_646E-Mass_flo_9401_(5.2).HSL4
646F-Mass_flo_9801	(RA-LIB)_ACM_2.00_Module_HART_Device_646F-Mass_flo_9801_(5.2).HSL4
6470-Mass_flo_9201	(RA-LIB)_ACM_2.00_Module_HART_Device_6470-Mass_flo_9201_(5.2).HSL4
647B-Mass_flo_9431	(RA-LIB)_ACM_2.00_Module_HART_Device_647B-Mass_flo_9431_(5.2).HSL4
6BE4-DPT_20_SIL2	(RA-LIB)_ACM_2.00_Module_HART_Device_6BE4-DPT_20_SIL2_(5.2).HSL4
6BE5-DPT_20	(RA-LIB)_ACM_2.00_Module_HART_Device_6BE5-DPT_20_(5.2).HSL4
6BEB-DPT	(RA-LIB)_ACM_2.00_Module_HART_Device_6BEB-DPT_(5.2).HSL4
6BEC-IPT	(RA-LIB)_ACM_2.00_Module_HART_Device_6BEC-IPT_(5.2).HSL4
6BEE-UniTrans	(RA-LIB)_ACM_2.00_Module_HART_Device_6BEE-UniTrans_(5.2).HSL4
6BEF-T32	(RA-LIB)_ACM_2.00_Module_HART_Device_6BEF-T32_(5.2).HSL4
6BF0-IPT_2x_CPT_2x	(RA-LIB)_ACM_2.00_Module_HART_Device_6BF0-IPT_2x_CPT_2x_(5.2).HSL4
6BF1-IPT_2x_CPT_2x_SIL	(RA-LIB)_ACM_2.00_Module_HART_Device_6BF1-IPT_2x_CPT_2x_SIL_(5.2).HSL4
6CEB-UMC2	(RA-LIB)_ACM_2.00_Module_HART_Device_6CEB-UMC2_(5.2).HSL4
6CEC-ES	(RA-LIB)_ACM_2.00_Module_HART_Device_6CEC-ES_(5.2).HSL4
6CED-VTX	(RA-LIB)_ACM_2.00_Module_HART_Device_6CED-VTX_(5.2).HSL4
6CEE-DIMF	(RA-LIB)_ACM_2.00_Module_HART_Device_6CEE-DIMF_(5.2).HSL4
6CEF-UST_1	(RA-LIB)_ACM_2.00_Module_HART_Device_6CEF-UST_1_(5.2).HSL4
6DDF-T55	(RA-LIB)_ACM_2.00_Module_HART_Device_6DDF-T55_(5.2).HSL4
6DE6-PR5437	(RA-LIB)_ACM_2.00_Module_HART_Device_6DE6-PR5437_(5.2).HSL4
6DE7-PR_7501H7	(RA-LIB)_ACM_2.00_Module_HART_Device_6DE7-PR_7501H7_(5.2).HSL4
6DE8-PR_3113	(RA-LIB)_ACM_2.00_Module_HART_Device_6DE8-PR_3113_(5.2).HSL4
6DE9-PR_3337	(RA-LIB)_ACM_2.00_Module_HART_Device_6DE9-PR_3337_(5.2).HSL4
6DEA-PR_6337	(RA-LIB)_ACM_2.00_Module_HART_Device_6DEA-PR_6337_(5.2).HSL4
6DEB-pr_5337	(RA-LIB)_ACM_2.00_Module_HART_Device_6DEB-pr_5337_(5.2).HSL4
6DEE-PRetrans_6335	(RA-LIB)_ACM_2.00_Module_HART_Device_6DEE-PRetrans_6335_(5.2).HSL4
6DEF-PR5335_PR7501H5	(RA-LIB)_ACM_2.00_Module_HART_Device_6DEF-PR5335_PR7501H5_(5.2).HSL4
6EDD-Actuator	(RA-LIB)_ACM_2.00_Module_HART_Device_6EDD-Actuator_(5.2).HSL4
71EE-MT115	(RA-LIB)_ACM_2.00_Module_HART_Device_71EE-MT115_(5.2).HSL4
72DE-SPX	(RA-LIB)_ACM_2.00_Module_HART_Device_72DE-SPX_(5.2).HSL4
72DF-IPXII	(RA-LIB)_ACM_2.00_Module_HART_Device_72DF-IPXII_(5.2).HSL4
72E0-IPX	(RA-LIB)_ACM_2.00_Module_HART_Device_72E0-IPX_(5.2).HSL4
75EF-Klay_2000_Pressure_Level	(RA-LIB)_ACM_2.00_Module_HART_Device_75EF-Klay_2000_Pressure_Level_(5.2).HSL4
76ED-VF_100	(RA-LIB)_ACM_2.00_Module_HART_Device_76ED-VF_100_(5.2).HSL4
76EE-GVF_100	(RA-LIB)_ACM_2.00_Module_HART_Device_76EE-GVF_100_(5.2).HSL4
76EF-VFGVF_100	(RA-LIB)_ACM_2.00_Module_HART_Device_76EF-VFGVF_100_(5.2).HSL4
79EF-FORCEmeter	(RA-LIB)_ACM_2.00_Module_HART_Device_79EF-FORCEmeter_(5.2).HSL4
7EE0-SMT_EL	(RA-LIB)_ACM_2.00_Module_HART_Device_7EE0-SMT_EL_(5.2).HSL4
7F3C-PASCAL_CI	(RA-LIB)_ACM_2.00_Module_HART_Device_7F3C-PASCAL_CI_(5.2).HSL4
7FEF-Pascal_CV	(RA-LIB)_ACM_2.00_Module_HART_Device_7FEF-Pascal_CV_(5.2).HSL4
817F-Intermag_Transmag	(RA-LIB)_ACM_2.00_Module_HART_Device_817F-Intermag_Transmag_(5.2).HSL4
8254-TLRx400x500	(RA-LIB)_ACM_2.00_Module_HART_Device_8254-TLRx400x500_(5.2).HSL4

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8257-MMC400	(RA-LIB)_ACM_2.00_Module_HART_Device_8257-MMC400_(5.2).HSL4
8258-FGY	(RA-LIB)_ACM_2.00_Module_HART_Device_8258-FGY_(5.2).HSL4
8259-AM3_H	(RA-LIB)_ACM_2.00_Module_HART_Device_8259-AM3_H_(5.2).HSL4
825B-VFC200	(RA-LIB)_ACM_2.00_Module_HART_Device_825B-VFC200_(5.2).HSL4
825C-ULC_400	(RA-LIB)_ACM_2.00_Module_HART_Device_825C-ULC_400_(5.2).HSL4
8260-NLZ_H	(RA-LIB)_ACM_2.00_Module_HART_Device_8260-NLZ_H_(5.2).HSL4
8261-FST4000	(RA-LIB)_ACM_2.00_Module_HART_Device_8261-FST4000_(5.2).HSL4
8263-AM_T	(RA-LIB)_ACM_2.00_Module_HART_Device_8263-AM_T_(5.2).HSL4
8265-AM_H	(RA-LIB)_ACM_2.00_Module_HART_Device_8265-AM_H_(5.2).HSL4
8267-VFC_070	(RA-LIB)_ACM_2.00_Module_HART_Device_8267-VFC_070_(5.2).HSL4
8269-UL6300V2	(RA-LIB)_ACM_2.00_Module_HART_Device_8269-UL6300V2_(5.2).HSL4
827B-FW_9000	(RA-LIB)_ACM_2.00_Module_HART_Device_827B-FW_9000_(5.2).HSL4
827F-FST_3000	(RA-LIB)_ACM_2.00_Module_HART_Device_827F-FST_3000_(5.2).HSL4
837D-IP8001	(RA-LIB)_ACM_2.00_Module_HART_Device_837D-IP8001_(5.2).HSL4
837E-IP8101	(RA-LIB)_ACM_2.00_Module_HART_Device_837E-IP8101_(5.2).HSL4
837F-IN_777	(RA-LIB)_ACM_2.00_Module_HART_Device_837F-IN_777_(5.2).HSL4
83EF-F793_E701	(RA-LIB)_ACM_2.00_Module_HART_Device_83EF-F793_E701_(5.2).HSL4
84EF-SEM_300	(RA-LIB)_ACM_2.00_Module_HART_Device_84EF-SEM_300_(5.2).HSL4
857F-HK_TT01	(RA-LIB)_ACM_2.00_Module_HART_Device_857F-HK_TT01_(5.2).HSL4
8661-APT3200	(RA-LIB)_ACM_2.00_Module_HART_Device_8661-APT3200_(5.2).HSL4
8667-APT3700N	(RA-LIB)_ACM_2.00_Module_HART_Device_8667-APT3700N_(5.2).HSL4
866B-APT3100	(RA-LIB)_ACM_2.00_Module_HART_Device_866B-APT3100_(5.2).HSL4
866B-APT3100	(RA-LIB)_ACM_2.00_Module_HART_Device_866B-APT3100_(1.1).HSL4
8673-ATT2X00_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_8673-ATT2X00_Series_(5.2).HSL4
8675-ATT2100S	(RA-LIB)_ACM_2.00_Module_HART_Device_8675-ATT2100S_(5.2).HSL4
8676-APT3800N	(RA-LIB)_ACM_2.00_Module_HART_Device_8676-APT3800N_(5.2).HSL4
8678-APT3500W	(RA-LIB)_ACM_2.00_Module_HART_Device_8678-APT3500W_(5.2).HSL4
867B-APT3500	(RA-LIB)_ACM_2.00_Module_HART_Device_867B-APT3500_(5.2).HSL4
867E-ALT6100	(RA-LIB)_ACM_2.00_Module_HART_Device_867E-ALT6100_(5.2).HSL4
8701-Pro_V	(RA-LIB)_ACM_2.00_Module_HART_Device_8701-Pro_V_(5.2).HSL4
8C88-LTM_100	(RA-LIB)_ACM_2.00_Module_HART_Device_8C88-LTM_100_(5.2).HSL4
8C89-LTM_300	(RA-LIB)_ACM_2.00_Module_HART_Device_8C89-LTM_300_(5.2).HSL4
8C8A-LTM_350	(RA-LIB)_ACM_2.00_Module_HART_Device_8C8A-LTM_350_(5.2).HSL4
8E70-M400_4_wire	(RA-LIB)_ACM_2.00_Module_HART_Device_8E70-M400_4_wire_(5.2).HSL4
8E74-M420_Cond_Ind	(RA-LIB)_ACM_2.00_Module_HART_Device_8E74-M420_Cond_Ind_(5.2).HSL4
8E75-M420_Cond	(RA-LIB)_ACM_2.00_Module_HART_Device_8E75-M420_Cond_(5.2).HSL4
8E76-M420_02	(RA-LIB)_ACM_2.00_Module_HART_Device_8E76-M420_02_(5.2).HSL4
8E77-M420_pH	(RA-LIB)_ACM_2.00_Module_HART_Device_8E77-M420_pH_(5.2).HSL4
8E78-CondI7100	(RA-LIB)_ACM_2.00_Module_HART_Device_8E78-CondI7100_(5.2).HSL4
8E79-O2_4100e	(RA-LIB)_ACM_2.00_Module_HART_Device_8E79-O2_4100e_(5.2).HSL4
8E7A-Cond7100	(RA-LIB)_ACM_2.00_Module_HART_Device_8E7A-Cond7100_(5.2).HSL4
8E7B-pH_2100	(RA-LIB)_ACM_2.00_Module_HART_Device_8E7B-pH_2100_(5.2).HSL4
8F73-LS2000	(RA-LIB)_ACM_2.00_Module_HART_Device_8F73-LS2000_(5.2).HSL4
8F74-ATX10	(RA-LIB)_ACM_2.00_Module_HART_Device_8F74-ATX10_(5.2).HSL4
8F75-Eclipse_CO2	(RA-LIB)_ACM_2.00_Module_HART_Device_8F75-Eclipse_CO2_(5.2).HSL4
8F76-X2200	(RA-LIB)_ACM_2.00_Module_HART_Device_8F76-X2200_(5.2).HSL4
8F77-X5200	(RA-LIB)_ACM_2.00_Module_HART_Device_8F77-X5200_(5.2).HSL4

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8F78-X9800	(RA-LIB)_ACM_2.00_Module_HART_Device_8F78-X9800_(5.2).HSL4
8F79-X3302	(RA-LIB)_ACM_2.00_Module_HART_Device_8F79-X3302_(5.2).HSL4
8F7A-UD10	(RA-LIB)_ACM_2.00_Module_HART_Device_8F7A-UD10_(5.2).HSL4
8F7B-GT3000	(RA-LIB)_ACM_2.00_Module_HART_Device_8F7B-GT3000_(5.2).HSL4
8F7C-X3301	(RA-LIB)_ACM_2.00_Module_HART_Device_8F7C-X3301_(5.2).HSL4
8F7E-OPECL_RX	(RA-LIB)_ACM_2.00_Module_HART_Device_8F7E-OPECL_RX_(5.2).HSL4
8F7F-Eclipse	(RA-LIB)_ACM_2.00_Module_HART_Device_8F7F-Eclipse_(5.2).HSL4
907B-AutoXP	(RA-LIB)_ACM_2.00_Module_HART_Device_907B-AutoXP_(5.2).HSL4
907C-MS2011	(RA-LIB)_ACM_2.00_Module_HART_Device_907C-MS2011_(5.2).HSL4
907D-NDMi	(RA-LIB)_ACM_2.00_Module_HART_Device_907D-NDMi_(5.2).HSL4
907E-Accu_Wave	(RA-LIB)_ACM_2.00_Module_HART_Device_907E-Accu_Wave_(5.2).HSL4
907F-NCMi	(RA-LIB)_ACM_2.00_Module_HART_Device_907F-NCMi_(5.2).HSL4
927F-Analyzer	(RA-LIB)_ACM_2.00_Module_HART_Device_927F-Analyzer_(5.2).HSL4
9977-METRAN_303PR	(RA-LIB)_ACM_2.00_Module_HART_Device_9977-METRAN_303PR_(5.2).HSL4
9979-Metran_150	(RA-LIB)_ACM_2.00_Module_HART_Device_9979-Metran_150_(5.2).HSL4
997E-METRAN_280	(RA-LIB)_ACM_2.00_Module_HART_Device_997E-METRAN_280_(5.2).HSL4
997F-METRAN_100	(RA-LIB)_ACM_2.00_Module_HART_Device_997F-METRAN_100_(5.2).HSL4
9BD3-PMV	(RA-LIB)_ACM_2.00_Module_HART_Device_9BD3-PMV_(5.2).HSL4
9D70-x868	(RA-LIB)_ACM_2.00_Module_HART_Device_9D70-x868_(5.2).HSL4
9D79-XMT1000_UFM	(RA-LIB)_ACM_2.00_Module_HART_Device_9D79-XMT1000_UFM_(5.2).HSL4
A002-PIR_2000	(RA-LIB)_ACM_2.00_Module_HART_Device_A002-PIR_2000_(5.2).HSL4
A0ED-OXI5000	(RA-LIB)_ACM_2.00_Module_HART_Device_A0ED-OXI5000_(5.2).HSL4
A175-LB414	(RA-LIB)_ACM_2.00_Module_HART_Device_A175-LB414_(5.2).HSL4
A179-LB480_Density	(RA-LIB)_ACM_2.00_Module_HART_Device_A179-LB480_Density_(5.2).HSL4
A17A-LB480_Level	(RA-LIB)_ACM_2.00_Module_HART_Device_A17A-LB480_Level_(5.2).HSL4
A17B-LB480_LevelSwitch	(RA-LIB)_ACM_2.00_Module_HART_Device_A17B-LB480_LevelSwitch_(5.2).HSL4
A17D-LB491	(RA-LIB)_ACM_2.00_Module_HART_Device_A17D-LB491_(5.2).HSL4
A17F-LB490	(RA-LIB)_ACM_2.00_Module_HART_Device_A17F-LB490_(5.2).HSL4
A2EF-SMARTCET_18C	(RA-LIB)_ACM_2.00_Module_HART_Device_A2EF-SMARTCET_18C_(5.2).HSL4
A57F-Sierra_i_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_A57F-Sierra_i_Series_(5.2).HSL4
A677-ST80_ST100A	(RA-LIB)_ACM_2.00_Module_HART_Device_A677-ST80_ST100A_(5.2).HSL4
A678-ST98	(RA-LIB)_ACM_2.00_Module_HART_Device_A678-ST98_(5.2).HSL4
A679-MT100_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_A679-MT100_Series_(5.2).HSL4
A67E-ST50_product_family	(RA-LIB)_ACM_2.00_Module_HART_Device_A67E-ST50_product_family_(5.2).HSL4
A67F-ST100_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_A67F-ST100_Series_(5.2).HSL4
A87F-M3500	(RA-LIB)_ACM_2.00_Module_HART_Device_A87F-M3500_(5.2).HSL4
AB01-SmartCal	(RA-LIB)_ACM_2.00_Module_HART_Device_AB01-SmartCal_(5.2).HSL4
AE7F-PRI_150	(RA-LIB)_ACM_2.00_Module_HART_Device_AE7F-PRI_150_(5.2).HSL4
AEA0-T251_X_5	(RA-LIB)_ACM_2.00_Module_HART_Device_AEA0-T251_X_5_(5.2).HSL4
AF7E-ID200	(RA-LIB)_ACM_2.00_Module_HART_Device_AF7E-ID200_(5.2).HSL4
B001-MCR_TS_LP	(RA-LIB)_ACM_2.00_Module_HART_Device_B001-MCR_TS_LP_(5.2).HSL4
B002-MCR_HT_TS	(RA-LIB)_ACM_2.00_Module_HART_Device_B002-MCR_HT_TS_(5.2).HSL4
B005-MCR_TS_I_OLP	(RA-LIB)_ACM_2.00_Module_HART_Device_B005-MCR_TS_I_OLP_(5.2).HSL4
B006-MCR_ITS_I_OLP	(RA-LIB)_ACM_2.00_Module_HART_Device_B006-MCR_ITS_I_OLP_(5.2).HSL4
B012-GW_PL_ETH_BASIC_BUS	(RA-LIB)_ACM_2.00_Module_HART_Device_B012-GW_PL_ETH_BASIC_BUS_(5.2).HSL4
B013-GW_PL_ETH_UNI_BUS	(RA-LIB)_ACM_2.00_Module_HART_Device_B013-GW_PL_ETH_UNI_BUS_(5.2).HSL4
B301-Centurion_Guided_Radar_Device	(RA-LIB)_ACM_2.00_Module_HART_Device_B301-Centurion_Guided_Radar_Device_(5.2).HSL4

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B302-Senator_24_80_Radar	(RA-LIB)_ACM_2.00_Module_HART_Device_B302-Senator_24_80_Radar_(5.2).HSL4
B401-YT_2300	(RA-LIB)_ACM_2.00_Module_HART_Device_B401-YT_2300_(5.2).HSL4
B402-YT_2400	(RA-LIB)_ACM_2.00_Module_HART_Device_B402-YT_2400_(5.2).HSL4
B407-YT_3400	(RA-LIB)_ACM_2.00_Module_HART_Device_B407-YT_3400_(5.2).HSL4
B409-YT_3300	(RA-LIB)_ACM_2.00_Module_HART_Device_B409-YT_3300_(5.2).HSL4
B40A-SPTM	(RA-LIB)_ACM_2.00_Module_HART_Device_B40A-SPTM_(5.2).HSL4
B40B-YT_3300_Pro	(RA-LIB)_ACM_2.00_Module_HART_Device_B40B-YT_3300_Pro_(5.2).HSL4
B47F-C330	(RA-LIB)_ACM_2.00_Module_HART_Device_B47F-C330_(5.2).HSL4
B57F-Series_442	(RA-LIB)_ACM_2.00_Module_HART_Device_B57F-Series_442_(5.2).HSL4
B580-Series_642	(RA-LIB)_ACM_2.00_Module_HART_Device_B580-Series_642_(5.2).HSL4
B581-T82	(RA-LIB)_ACM_2.00_Module_HART_Device_B581-T82_(5.2).HSL4
B582-Series_662	(RA-LIB)_ACM_2.00_Module_HART_Device_B582-Series_662_(5.2).HSL4
B67F-V_series	(RA-LIB)_ACM_2.00_Module_HART_Device_B67F-V_series_(5.2).HSL4
B77C-HRT_IMVS2000v2	(RA-LIB)_ACM_2.00_Module_HART_Device_B77C-HRT_IMVS2000v2_(5.2).HSL4
B77D-HRTIMVS2000	(RA-LIB)_ACM_2.00_Module_HART_Device_B77D-HRTIMVS2000_(5.2).HSL4
B77E-HRT2000v4	(RA-LIB)_ACM_2.00_Module_HART_Device_B77E-HRT2000v4_(5.2).HSL4
B97F-D331A	(RA-LIB)_ACM_2.00_Module_HART_Device_B97F-D331A_(5.2).HSL4
BC7A-LI_24	(RA-LIB)_ACM_2.00_Module_HART_Device_BC7A-LI_24_(5.2).HSL4
BC7B-APC_2000ALW	(RA-LIB)_ACM_2.00_Module_HART_Device_BC7B-APC_2000ALW_(5.2).HSL4
BD01-Primo_Advanced	(RA-LIB)_ACM_2.00_Module_HART_Device_BD01-Primo_Advanced_(5.2).HSL4
BD02-M2000	(RA-LIB)_ACM_2.00_Module_HART_Device_BD02-M2000_(5.2).HSL4
BF7C-MDL_400	(RA-LIB)_ACM_2.00_Module_HART_Device_BF7C-MDL_400_(5.2).HSL4
COEF-GT400	(RA-LIB)_ACM_2.00_Module_HART_Device_COEF-GT400_(5.2).HSL4
C221-TE_52	(RA-LIB)_ACM_2.00_Module_HART_Device_C221-TE_52_(5.2).HSL4
C374-LSIII_Pressure	(RA-LIB)_ACM_2.00_Module_HART_Device_C374-LSIII_Pressure_(5.2).HSL4
C580-KC_3	(RA-LIB)_ACM_2.00_Module_HART_Device_C580-KC_3_(5.2).HSL4
C581-KC_5	(RA-LIB)_ACM_2.00_Module_HART_Device_C581-KC_5_(5.2).HSL4
C780-FLOWSIC_600	(RA-LIB)_ACM_2.00_Module_HART_Device_C780-FLOWSIC_600_(5.2).HSL4
C781-FLOWSIC_100	(RA-LIB)_ACM_2.00_Module_HART_Device_C781-FLOWSIC_100_(5.2).HSL4
C782-FLOWSIC_30	(RA-LIB)_ACM_2.00_Module_HART_Device_C782-FLOWSIC_30_(5.2).HSL4
C783-FLOWSIC_IU	(RA-LIB)_ACM_2.00_Module_HART_Device_C783-FLOWSIC_IU_(5.2).HSL4
C784-LFR_SicWave	(RA-LIB)_ACM_2.00_Module_HART_Device_C784-LFR_SicWave_(5.2).HSL4
C785-LBR_SicWave	(RA-LIB)_ACM_2.00_Module_HART_Device_C785-LBR_SicWave_(5.2).HSL4
CA80-SP301	(RA-LIB)_ACM_2.00_Module_HART_Device_CA80-SP301_(5.2).HSL4
CF80-EP1000_SPS2000	(RA-LIB)_ACM_2.00_Module_HART_Device_CF80-EP1000_SPS2000_(5.2).HSL4
CF81-EP1001	(RA-LIB)_ACM_2.00_Module_HART_Device_CF81-EP1001_(5.2).HSL4
CF83-KGP5000	(RA-LIB)_ACM_2.00_Module_HART_Device_CF83-KGP5000_(5.2).HSL4
D280-XNX	(RA-LIB)_ACM_2.00_Module_HART_Device_D280-XNX_(5.2).HSL4
D281-Optima	(RA-LIB)_ACM_2.00_Module_HART_Device_D281-Optima_(5.2).HSL4
D283-Searchzone_Sonk	(RA-LIB)_ACM_2.00_Module_HART_Device_D283-Searchzone_Sonk_(5.2).HSL4
D380-PAD	(RA-LIB)_ACM_2.00_Module_HART_Device_D380-PAD_(5.2).HSL4
D381-PAS	(RA-LIB)_ACM_2.00_Module_HART_Device_D381-PAS_(5.2).HSL4
D382-PAD_F	(RA-LIB)_ACM_2.00_Module_HART_Device_D382-PAD_F_(5.2).HSL4
D3EA-UMF3	(RA-LIB)_ACM_2.00_Module_HART_Device_D3EA-UMF3_(5.2).HSL4
D480-PES	(RA-LIB)_ACM_2.00_Module_HART_Device_D480-PES_(5.2).HSL4
D481-PDS	(RA-LIB)_ACM_2.00_Module_HART_Device_D481-PDS_(5.2).HSL4
D482-HVP	(RA-LIB)_ACM_2.00_Module_HART_Device_D482-HVP_(5.2).HSL4

HART Device	Application Code Manager File
D485-HVP1114	(RA-LIB)_ACM_2.00_Module_HART_Device_D485-HVP1114_(5.2).HSL4
D486-FLOW_MASTER	(RA-LIB)_ACM_2.00_Module_HART_Device_D486-FLOW_MASTER_(5.2).HSL4
D487-TTS	(RA-LIB)_ACM_2.00_Module_HART_Device_D487-TTS_(5.2).HSL4
D490-MPS	(RA-LIB)_ACM_2.00_Module_HART_Device_D490-MPS_(5.2).HSL4
D580-SI792P	(RA-LIB)_ACM_2.00_Module_HART_Device_D580-SI792P_(5.2).HSL4
D581-SI792C	(RA-LIB)_ACM_2.00_Module_HART_Device_D581-SI792C_(5.2).HSL4
D582-SI792T	(RA-LIB)_ACM_2.00_Module_HART_Device_D582-SI792T_(5.2).HSL4
D583-SI792E	(RA-LIB)_ACM_2.00_Module_HART_Device_D583-SI792E_(5.2).HSL4
D584-SI792D	(RA-LIB)_ACM_2.00_Module_HART_Device_D584-SI792D_(5.2).HSL4
D586-sc200_pH_ORP_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D586-sc200_pH_ORP_Module_(5.2).HSL4
D587-LDO	(RA-LIB)_ACM_2.00_Module_HART_Device_D587-LDO_(5.2).HSL4
D588-sc200_Contacting_Conductivity_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D588-sc200_Contacting_Conductivity_Module_(5.2).HSL4
D589-sc200_Inductive_Conductivity_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D589-sc200_Inductive_Conductivity_Module_(5.2).HSL4
D58A-sc200_DO_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D58A-sc200_DO_Module_(5.2).HSL4
D58B-sc200_Ultrasonic_Flow_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D58B-sc200_Ultrasonic_Flow_Module_(5.2).HSL4
D58C-Surface_Scatter_7_Turbidimeter	(RA-LIB)_ACM_2.00_Module_HART_Device_D58C-Surface_Scatter_7_Turbidimeter_(5.2).HSL4
D58D-sc200_4_20mA_Analog_Input_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D58D-sc200_4_20mA_Analog_Input_Module_(5.2).HSL4
D58E-sc_pH_ORP_Differential	(RA-LIB)_ACM_2.00_Module_HART_Device_D58E-sc_pH_ORP_Differential_(5.2).HSL4
D58F-FP360sc	(RA-LIB)_ACM_2.00_Module_HART_Device_D58F-FP360sc_(5.2).HSL4
D590-TSSsc	(RA-LIB)_ACM_2.00_Module_HART_Device_D590-TSSsc_(5.2).HSL4
D591-Turbidimeter_1720E	(RA-LIB)_ACM_2.00_Module_HART_Device_D591-Turbidimeter_1720E_(5.2).HSL4
D5AF-LDO_2	(RA-LIB)_ACM_2.00_Module_HART_Device_D5AF-LDO_2_(5.2).HSL4
D5B0-sc200_Conductivity_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D5B0-sc200_Conductivity_Module_(5.2).HSL4
D5B2-sc200_pH_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D5B2-sc200_pH_Module_(5.2).HSL4
D5B3-sc200_Amperometric_Module	(RA-LIB)_ACM_2.00_Module_HART_Device_D5B3-sc200_Amperometric_Module_(5.2).HSL4
D5B5-NAx600sc_Sodium	(RA-LIB)_ACM_2.00_Module_HART_Device_D5B5-NAx600sc_Sodium_(5.2).HSL4
D980-Safir	(RA-LIB)_ACM_2.00_Module_HART_Device_D980-Safir_(5.2).HSL4
DB80-SharpEye	(RA-LIB)_ACM_2.00_Module_HART_Device_DB80-SharpEye_(5.2).HSL4
DB81-SafEye	(RA-LIB)_ACM_2.00_Module_HART_Device_DB81-SafEye_(5.2).HSL4
DB83-Spectrex_SharpEye_40_40	(RA-LIB)_ACM_2.00_Module_HART_Device_DB83-Spectrex_SharpEye_40_40_(5.2).HSL4
DE81-X3	(RA-LIB)_ACM_2.00_Module_HART_Device_DE81-X3_(5.2).HSL4
DF80-FL4000	(RA-LIB)_ACM_2.00_Module_HART_Device_DF80-FL4000_(5.2).HSL4
DF81-S4000CH	(RA-LIB)_ACM_2.00_Module_HART_Device_DF81-S4000CH_(5.2).HSL4
DF82-S4000TH	(RA-LIB)_ACM_2.00_Module_HART_Device_DF82-S4000TH_(5.2).HSL4
DF83-IR400	(RA-LIB)_ACM_2.00_Module_HART_Device_DF83-IR400_(5.2).HSL4
DF84-IR4000	(RA-LIB)_ACM_2.00_Module_HART_Device_DF84-IR4000_(5.2).HSL4
DF85-S4100CH	(RA-LIB)_ACM_2.00_Module_HART_Device_DF85-S4100CH_(5.2).HSL4
DF87-IR5500_ULTIMA_OPIR_5	(RA-LIB)_ACM_2.00_Module_HART_Device_DF87-IR5500_ULTIMA_OPIR_5_(5.2).HSL4
DF88-IR700	(RA-LIB)_ACM_2.00_Module_HART_Device_DF88-IR700_(5.2).HSL4
DF89-TS4000H	(RA-LIB)_ACM_2.00_Module_HART_Device_DF89-TS4000H_(5.2).HSL4
DF90-FL3100H_FL3101H	(RA-LIB)_ACM_2.00_Module_HART_Device_DF90-FL3100H_FL3101H_(5.2).HSL4
DF93-FL500	(RA-LIB)_ACM_2.00_Module_HART_Device_DF93-FL500_(5.2).HSL4
DF95-Observer_H_Ultrasonic_EX_5	(RA-LIB)_ACM_2.00_Module_HART_Device_DF95-Observer_H_Ultrasonic_EX_5_(5.2).HSL4
DF96-Observer_i	(RA-LIB)_ACM_2.00_Module_HART_Device_DF96-Observer_i_(5.2).HSL4
E082-SDT420	(RA-LIB)_ACM_2.00_Module_HART_Device_E082-SDT420_(5.2).HSL4
E088-EX200H_Positioner	(RA-LIB)_ACM_2.00_Module_HART_Device_E088-EX200H_Positioner_(5.2).HSL4
E08B-Detcon_HRT_Bridge	(RA-LIB)_ACM_2.00_Module_HART_Device_E08B-Detcon_HRT_Bridge_(5.2).HSL4

HART Device	Application Code Manager File
E08C-UltimaXL_XT	(RA-LIB)_ACM_2.00_Module_HART_Device_E08C-UltimaXL_XT_(5.2).HSL4
E093-CXT_CJT	(RA-LIB)_ACM_2.00_Module_HART_Device_E093-CXT_CJT_(5.2).HSL4
E095-HBM_165_H	(RA-LIB)_ACM_2.00_Module_HART_Device_E095-HBM_165_H_(5.2).HSL4
E097-WBM_165_H	(RA-LIB)_ACM_2.00_Module_HART_Device_E097-WBM_165_H_(5.2).HSL4
E09E-Millenium_2_Basic	(RA-LIB)_ACM_2.00_Module_HART_Device_E09E-Millenium_2_Basic_(5.2).HSL4
E09F-UltimaXEH	(RA-LIB)_ACM_2.00_Module_HART_Device_E09F-UltimaXEH_(5.2).HSL4
E0A1-HRT1	(RA-LIB)_ACM_2.00_Module_HART_Device_E0A1-HRT1_(5.2).HSL4
E0AC-Wireless_Adapter	(RA-LIB)_ACM_2.00_Module_HART_Device_E0AC-Wireless_Adapter_(5.2).HSL4
E0BD-FLUXUS	(RA-LIB)_ACM_2.00_Module_HART_Device_E0BD-FLUXUS_(5.2).HSL4
E0C2-Axiom	(RA-LIB)_ACM_2.00_Module_HART_Device_E0C2-Axiom_(5.2).HSL4
E0CB-AIR_20H	(RA-LIB)_ACM_2.00_Module_HART_Device_E0CB-AIR_20H_(5.2).HSL4
E0D3-OXITEC_5000	(RA-LIB)_ACM_2.00_Module_HART_Device_E0D3-OXITEC_5000_(5.2).HSL4
E0D4-COMTEC_6000	(RA-LIB)_ACM_2.00_Module_HART_Device_E0D4-COMTEC_6000_(5.2).HSL4
E0D7-MFT_B_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_E0D7-MFT_B_Series_(5.2).HSL4
E0DE-TiXo3	(RA-LIB)_ACM_2.00_Module_HART_Device_E0DE-TiXo3_(5.2).HSL4
E0DF-JB_MPHF_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_E0DF-JB_MPHF_Series_(5.2).HSL4
E0E1-DLT9000	(RA-LIB)_ACM_2.00_Module_HART_Device_E0E1-DLT9000_(5.2).HSL4
E0E2-FFG_P_Level_Sensor	(RA-LIB)_ACM_2.00_Module_HART_Device_E0E2-FFG_P_Level_Sensor_(5.2).HSL4
E0E3-ST5700_SteamTrap	(RA-LIB)_ACM_2.00_Module_HART_Device_E0E3-ST5700_SteamTrap_(5.2).HSL4
E0E4-AD5000_Acoustic	(RA-LIB)_ACM_2.00_Module_HART_Device_E0E4-AD5000_Acoustic_(5.2).HSL4
E0E6-N7	(RA-LIB)_ACM_2.00_Module_HART_Device_E0E6-N7_(5.2).HSL4
E0EA-F018p	(RA-LIB)_ACM_2.00_Module_HART_Device_E0EA-F018p_(5.2).HSL4
E0F1-Freq_mA	(RA-LIB)_ACM_2.00_Module_HART_Device_E0F1-Freq_mA_(5.2).HSL4
E0F3-PrimaX	(RA-LIB)_ACM_2.00_Module_HART_Device_E0F3-PrimaX_(5.2).HSL4
E0F6-PrimaX_IR	(RA-LIB)_ACM_2.00_Module_HART_Device_E0F6-PrimaX_IR_(5.2).HSL4
E0F7-GD10	(RA-LIB)_ACM_2.00_Module_HART_Device_E0F7-GD10_(5.2).HSL4
E0FC-XgardIQ	(RA-LIB)_ACM_2.00_Module_HART_Device_E0FC-XgardIQ_(5.2).HSL4
E0FF-CALIPERAY	(RA-LIB)_ACM_2.00_Module_HART_Device_E0FF-CALIPERAY_(5.2).HSL4
E184-EA10S	(RA-LIB)_ACM_2.00_Module_HART_Device_E184-EA10S_(5.2).HSL4
E18D-TX200H	(RA-LIB)_ACM_2.00_Module_HART_Device_E18D-TX200H_(5.2).HSL4
E190-FST_3000	(RA-LIB)_ACM_2.00_Module_HART_Device_E190-FST_3000_(5.2).HSL4
E198-OLCT_200	(RA-LIB)_ACM_2.00_Module_HART_Device_E198-OLCT_200_(5.2).HSL4
E19C-SGOES	(RA-LIB)_ACM_2.00_Module_HART_Device_E19C-SGOES_(5.2).HSL4
E1AA-IT_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_E1AA-IT_Series_(5.2).HSL4
E1AB-Vector_Field_Control_Unit	(RA-LIB)_ACM_2.00_Module_HART_Device_E1AB-Vector_Field_Control_Unit_(5.2).HSL4
E1AD-DTU100	(RA-LIB)_ACM_2.00_Module_HART_Device_E1AD-DTU100_(5.2).HSL4
E1B5-SD_1	(RA-LIB)_ACM_2.00_Module_HART_Device_E1B5-SD_1_(5.2).HSL4
E1C1-EIM_CAM206	(RA-LIB)_ACM_2.00_Module_HART_Device_E1C1-EIM_CAM206_(5.2).HSL4
E1C3-GTD2000	(RA-LIB)_ACM_2.00_Module_HART_Device_E1C3-GTD2000_(5.2).HSL4
E1C4-VisiPro_DO	(RA-LIB)_ACM_2.00_Module_HART_Device_E1C4-VisiPro_DO_(5.2).HSL4
E1C6-GIR_3000	(RA-LIB)_ACM_2.00_Module_HART_Device_E1C6-GIR_3000_(5.2).HSL4
E1D4-Meridian_Gas_Detector_Wired	(RA-LIB)_ACM_2.00_Module_HART_Device_E1D4-Meridian_Gas_Detector_Wired_(5.2).HSL4
E1DC-Model2010	(RA-LIB)_ACM_2.00_Module_HART_Device_E1DC-Model2010_(5.2).HSL4
E1E1-MAT_MATD_MATS	(RA-LIB)_ACM_2.00_Module_HART_Device_E1E1-MAT_MATD_MATS_(5.2).HSL4
E1E2-SAGE_PRIME_RIO	(RA-LIB)_ACM_2.00_Module_HART_Device_E1E2-SAGE_PRIME_RIO_(5.2).HSL4
E1E9-KRG_10	(RA-LIB)_ACM_2.00_Module_HART_Device_E1E9-KRG_10_(5.2).HSL4
E1EA-iTrans_2	(RA-LIB)_ACM_2.00_Module_HART_Device_E1EA-iTrans_2_(5.2).HSL4

HART Device	Application Code Manager File
E1EC-ST_4312	(RA-LIB)_ACM_2.00_Module_HART_Device_E1EC-ST_4312_(5.2).HSL4
E1F1-AIR_10SH	(RA-LIB)_ACM_2.00_Module_HART_Device_E1F1-AIR_10SH_(5.2).HSL4
E1FD-AUMATIC_AC_01_2_ACEx_01_2	(RA-LIB)_ACM_2.00_Module_HART_Device_E1FD-AUMATIC_AC_01_2_ACEx_01_2_(5.2).HSL4
E285-H_Pres_Transmitter	(RA-LIB)_ACM_2.00_Module_HART_Device_E285-H_Pres_Transmitter_(5.2).HSL4
E286-E2T_PULSAR_4	(RA-LIB)_ACM_2.00_Module_HART_Device_E286-E2T_PULSAR_4_(5.2).HSL4
E28D-MP100	(RA-LIB)_ACM_2.00_Module_HART_Device_E28D-MP100_(5.2).HSL4
E29B-MC608	(RA-LIB)_ACM_2.00_Module_HART_Device_E29B-MC608_(5.2).HSL4
E2A1-SS235	(RA-LIB)_ACM_2.00_Module_HART_Device_E2A1-SS235_(5.2).HSL4
E2A2-EMF_1000_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_E2A2-EMF_1000_Series_(5.2).HSL4
E2A3-CMF_2000_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_E2A3-CMF_2000_Series_(5.2).HSL4
E2A6-L_mag	(RA-LIB)_ACM_2.00_Module_HART_Device_E2A6-L_mag_(5.2).HSL4
E2AD-ML210_ME101	(RA-LIB)_ACM_2.00_Module_HART_Device_E2AD-ML210_ME101_(5.2).HSL4
E2B3-SmartPoz_8400S	(RA-LIB)_ACM_2.00_Module_HART_Device_E2B3-SmartPoz_8400S_(5.2).HSL4
E2B5-DREHMO_i_matic	(RA-LIB)_ACM_2.00_Module_HART_Device_E2B5-DREHMO_i_matic_(5.2).HSL4
E2B8-SNE4100B	(RA-LIB)_ACM_2.00_Module_HART_Device_E2B8-SNE4100B_(5.2).HSL4
E2BA-DAT_M	(RA-LIB)_ACM_2.00_Module_HART_Device_E2BA-DAT_M_(5.2).HSL4
E2BB-DAH_M	(RA-LIB)_ACM_2.00_Module_HART_Device_E2BB-DAH_M_(5.2).HSL4
E2BF-GT_CT_8900	(RA-LIB)_ACM_2.00_Module_HART_Device_E2BF-GT_CT_8900_(5.2).HSL4
E2C0-GQ_CE8900	(RA-LIB)_ACM_2.00_Module_HART_Device_E2C0-GQ_CE8900_(5.2).HSL4
E2C1-ECHOPRO_LRxx	(RA-LIB)_ACM_2.00_Module_HART_Device_E2C1-ECHOPRO_LRxx_(5.2).HSL4
E2C6-ACM_2_HRT	(RA-LIB)_ACM_2.00_Module_HART_Device_E2C6-ACM_2_HRT_(5.2).HSL4
E2CD-E018p	(RA-LIB)_ACM_2.00_Module_HART_Device_E2CD-E018p_(5.2).HSL4
E2E7-N8	(RA-LIB)_ACM_2.00_Module_HART_Device_E2E7-N8_(5.2).HSL4
E2E8-D58_DC	(RA-LIB)_ACM_2.00_Module_HART_Device_E2E8-D58_DC_(5.2).HSL4
E2E9-GD_88	(RA-LIB)_ACM_2.00_Module_HART_Device_E2E9-GD_88_(5.2).HSL4
E2ED-TxIsoRail_HRT	(RA-LIB)_ACM_2.00_Module_HART_Device_E2ED-TxIsoRail_HRT_(5.2).HSL4
E2FA-IDC24	(RA-LIB)_ACM_2.00_Module_HART_Device_E2FA-IDC24_(5.2).HSL4
E305-WD_BS_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_E305-WD_BS_Series_(5.2).HSL4
E306-D58_AC	(RA-LIB)_ACM_2.00_Module_HART_Device_E306-D58_AC_(5.2).HSL4
E308-TCD50	(RA-LIB)_ACM_2.00_Module_HART_Device_E308-TCD50_(5.2).HSL4
E30E-IP_0304_M1_H	(RA-LIB)_ACM_2.00_Module_HART_Device_E30E-IP_0304_M1_H_(5.2).HSL4
E313-TxIsoBlock_HRT	(RA-LIB)_ACM_2.00_Module_HART_Device_E313-TxIsoBlock_HRT_(5.2).HSL4
E328-AMI_pH_Redox	(RA-LIB)_ACM_2.00_Module_HART_Device_E328-AMI_pH_Redox_(5.2).HSL4
E32C-G3_LEFM	(RA-LIB)_ACM_2.00_Module_HART_Device_E32C-G3_LEFM_(5.2).HSL4
E32F-KD_12	(RA-LIB)_ACM_2.00_Module_HART_Device_E32F-KD_12_(5.2).HSL4
E330-AIR_30M	(RA-LIB)_ACM_2.00_Module_HART_Device_E330-AIR_30M_(5.2).HSL4
E332-BRIZ_TM_2Ex	(RA-LIB)_ACM_2.00_Module_HART_Device_E332-BRIZ_TM_2Ex_(5.2).HSL4
E333-Mass_flowmeter	(RA-LIB)_ACM_2.00_Module_HART_Device_E333-Mass_flowmeter_(5.2).HSL4
E334-TriVAX	(RA-LIB)_ACM_2.00_Module_HART_Device_E334-TriVAX_(5.2).HSL4
E33D-CamCor	(RA-LIB)_ACM_2.00_Module_HART_Device_E33D-CamCor_(5.2).HSL4
E35A-ULM	(RA-LIB)_ACM_2.00_Module_HART_Device_E35A-ULM_(5.2).HSL4
E35D-series_9D_Analyzer	(RA-LIB)_ACM_2.00_Module_HART_Device_E35D-series_9D_Analyzer_(5.2).HSL4
E363-APOSA	(RA-LIB)_ACM_2.00_Module_HART_Device_E363-APOSA_(5.2).HSL4
E37C-OTIS_7543_6_W_HRT	(RA-LIB)_ACM_2.00_Module_HART_Device_E37C-OTIS_7543_6_W_HRT_(5.2).HSL4
E389-JUMO_dTRANS_T07	(RA-LIB)_ACM_2.00_Module_HART_Device_E389-JUMO_dTRANS_T07_(5.2).HSL4
E38D-CHRONOS_IDP7600	(RA-LIB)_ACM_2.00_Module_HART_Device_E38D-CHRONOS_IDP7600_(5.2).HSL4
E38E-GT_X_1100	(RA-LIB)_ACM_2.00_Module_HART_Device_E38E-GT_X_1100_(5.2).HSL4

HART Device	Application Code Manager File
E38F-KC_200_H	(RA-LIB)_ACM_2.00_Module_HART_Device_E38F-KC_200_H_(5.2).HSL4
E394-Position_Xmtr	(RA-LIB)_ACM_2.00_Module_HART_Device_E394-Position_Xmtr_(5.2).HSL4
E39C-Mv110_MV210	(RA-LIB)_ACM_2.00_Module_HART_Device_E39C-Mv110_MV210_(5.2).HSL4
E3A6-BiT_Barkslade_Intelligent_Transmitter	(RA-LIB)_ACM_2.00_Module_HART_Device_E3A6-BiT_Barkslade_Intelligent_Transmitter_(5.2).HSL4
E3A8-Ultra_IR800	(RA-LIB)_ACM_2.00_Module_HART_Device_E3A8-Ultra_IR800_(5.2).HSL4
E3A9-Ultra_FL800	(RA-LIB)_ACM_2.00_Module_HART_Device_E3A9-Ultra_FL800_(5.2).HSL4
E3B7-NivuFlow	(RA-LIB)_ACM_2.00_Module_HART_Device_E3B7-NivuFlow_(5.2).HSL4
E3BB-XTH300i	(RA-LIB)_ACM_2.00_Module_HART_Device_E3BB-XTH300i_(5.2).HSL4
E3BD-SDCU_20	(RA-LIB)_ACM_2.00_Module_HART_Device_E3BD-SDCU_20_(5.2).HSL4
E3C4-RP1000	(RA-LIB)_ACM_2.00_Module_HART_Device_E3C4-RP1000_(5.2).HSL4
E3E3-JUMO_dTRANS_T08_37	(RA-LIB)_ACM_2.00_Module_HART_Device_E3E3-JUMO_dTRANS_T08_37_(5.2).HSL4
E3E4-JUMO_dTRANS_T08_13	(RA-LIB)_ACM_2.00_Module_HART_Device_E3E4-JUMO_dTRANS_T08_13_(5.2).HSL4
E3E5-EMIS_BAR	(RA-LIB)_ACM_2.00_Module_HART_Device_E3E5-EMIS_BAR_(5.2).HSL4
E405-TER	(RA-LIB)_ACM_2.00_Module_HART_Device_E405-TER_(5.2).HSL4
E406-HIR	(RA-LIB)_ACM_2.00_Module_HART_Device_E406-HIR_(5.2).HSL4
E408-SMT_200X	(RA-LIB)_ACM_2.00_Module_HART_Device_E408-SMT_200X_(5.2).HSL4
E40A-NCS_TT106	(RA-LIB)_ACM_2.00_Module_HART_Device_E40A-NCS_TT106_(5.2).HSL4
E41A-Uniphos_501_DT	(RA-LIB)_ACM_2.00_Module_HART_Device_E41A-Uniphos_501_DT_(5.2).HSL4
E41B-CURTO_CU_DQD_0235	(RA-LIB)_ACM_2.00_Module_HART_Device_E41B-CURTO_CU_DQD_0235_(5.2).HSL4
E429-EMIS_VIHR_200	(RA-LIB)_ACM_2.00_Module_HART_Device_E429-EMIS_VIHR_200_(5.2).HSL4
E42C-MR	(RA-LIB)_ACM_2.00_Module_HART_Device_E42C-MR_(5.2).HSL4
E435-DX_PST_with_HRT_7	(RA-LIB)_ACM_2.00_Module_HART_Device_E435-DX_PST_with_HRT_7_(5.2).HSL4
E44D-VisiFerm_mA	(RA-LIB)_ACM_2.00_Module_HART_Device_E44D-VisiFerm_mA_(5.2).HSL4
E44E-VisiTrace_mA	(RA-LIB)_ACM_2.00_Module_HART_Device_E44E-VisiTrace_mA_(5.2).HSL4
E44F-iPES_IR3	(RA-LIB)_ACM_2.00_Module_HART_Device_E44F-iPES_IR3_(5.2).HSL4
E450-TGAES_RX_A	(RA-LIB)_ACM_2.00_Module_HART_Device_E450-TGAES_RX_A_(5.2).HSL4
E457-Wi_Corr_Bond	(RA-LIB)_ACM_2.00_Module_HART_Device_E457-Wi_Corr_Bond_(5.2).HSL4
E465-CT_PT4550	(RA-LIB)_ACM_2.00_Module_HART_Device_E465-CT_PT4550_(5.2).HSL4
E467-CT_PMS6030	(RA-LIB)_ACM_2.00_Module_HART_Device_E467-CT_PMS6030_(5.2).HSL4
E468-Leon_Meter	(RA-LIB)_ACM_2.00_Module_HART_Device_E468-Leon_Meter_(5.2).HSL4
E469-SI_100	(RA-LIB)_ACM_2.00_Module_HART_Device_E469-SI_100_(5.2).HSL4
E46B-TP2000_Series	(RA-LIB)_ACM_2.00_Module_HART_Device_E46B-TP2000_Series_(5.2).HSL4
E46C-DRG_M_DRS	(RA-LIB)_ACM_2.00_Module_HART_Device_E46C-DRG_M_DRS_(5.2).HSL4
E47A-PT0304_VT	(RA-LIB)_ACM_2.00_Module_HART_Device_E47A-PT0304_VT_(5.2).HSL4
E47B-EM_260	(RA-LIB)_ACM_2.00_Module_HART_Device_E47B-EM_260_(5.2).HSL4
E481-SD_3	(RA-LIB)_ACM_2.00_Module_HART_Device_E481-SD_3_(5.2).HSL4
E488-MC_Synergy	(RA-LIB)_ACM_2.00_Module_HART_Device_E488-MC_Synergy_(5.2).HSL4
E48A-YYDG	(RA-LIB)_ACM_2.00_Module_HART_Device_E48A-YYDG_(5.2).HSL4
E494-NTM8	(RA-LIB)_ACM_2.00_Module_HART_Device_E494-NTM8_(5.2).HSL4
E49F-SP4060	(RA-LIB)_ACM_2.00_Module_HART_Device_E49F-SP4060_(5.2).HSL4
E4A6-TLK_TT306H	(RA-LIB)_ACM_2.00_Module_HART_Device_E4A6-TLK_TT306H_(5.2).HSL4
E4A7-TLK_TT305H	(RA-LIB)_ACM_2.00_Module_HART_Device_E4A7-TLK_TT305H_(5.2).HSL4
E4A8-TLK_TT306H_R	(RA-LIB)_ACM_2.00_Module_HART_Device_E4A8-TLK_TT306H_R_(5.2).HSL4
E4A9-RU	(RA-LIB)_ACM_2.00_Module_HART_Device_E4A9-RU_(5.2).HSL4
E4B6-TRG80XX	(RA-LIB)_ACM_2.00_Module_HART_Device_E4B6-TRG80XX_(5.2).HSL4
E4B8-REM	(RA-LIB)_ACM_2.00_Module_HART_Device_E4B8-REM_(5.2).HSL4
E4BF-GDRD8X	(RA-LIB)_ACM_2.00_Module_HART_Device_E4BF-GDRD8X_(5.2).HSL4

HART Device	Application Code Manager File
E4C2-RV	(RA-LIB)_ACM_2.00_Module_HART_Device_E4C2-RV_(5.2).HSL4
E4D5-IP_0304_M3_H	(RA-LIB)_ACM_2.00_Module_HART_Device_E4D5-IP_0304_M3_H_(5.2).HSL4
E4D8-DA_500	(RA-LIB)_ACM_2.00_Module_HART_Device_E4D8-DA_500_(5.2).HSL4
E4DE-PID901	(RA-LIB)_ACM_2.00_Module_HART_Device_E4DE-PID901_(5.2).HSL4
E537-ACTUATOR	(RA-LIB)_ACM_2.00_Module_HART_Device_E537-ACTUATOR_(5.2).HSL4
Generic	(RA-LIB)_ACM_2.00_Module_HART_Device_Generic_(5.2).HSL4

HMI Tags

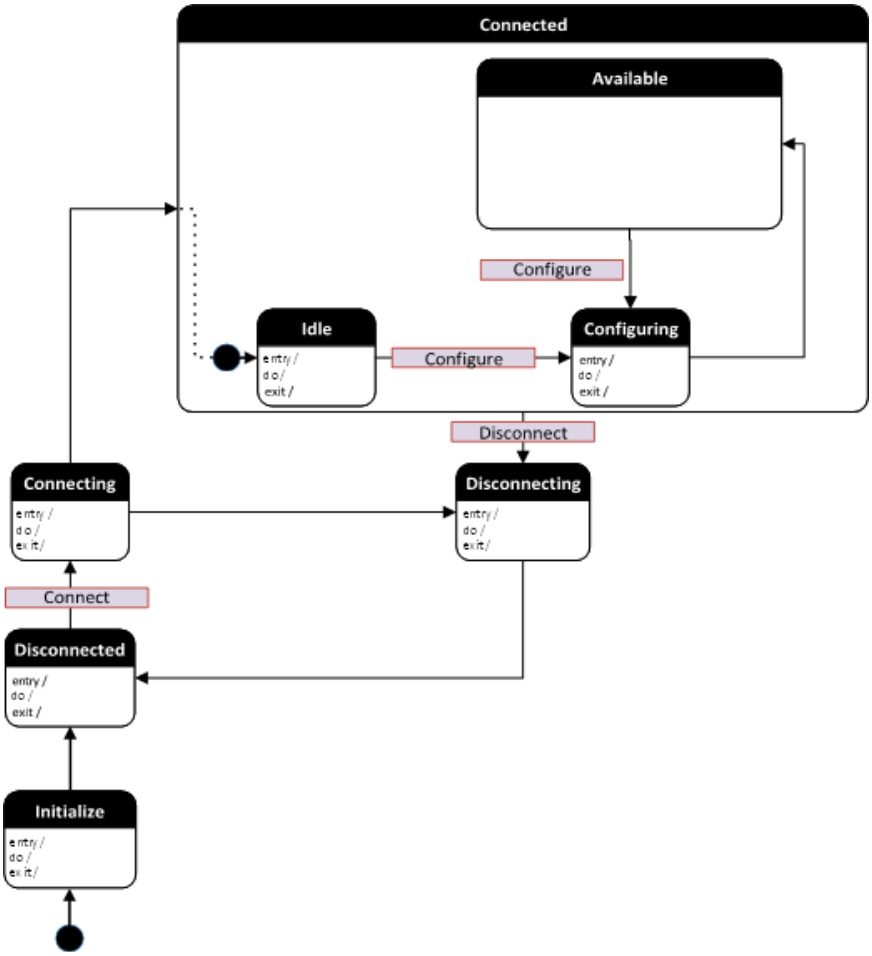
The IODevice Library contains "*FTViewStudio_IOLibrary_Tags_5_00.CSV*", which is used by FactoryTalk® View Site Edition and FactoryTalk® View Machine Edition applications to operate the page navigation and revision screens. The CSV import file includes the following tags:

Member	Description	Data Type
IOLibNavTag	Page navigation tag	INT
IOLibRevTag	99 = Revision screen is active on the device.	INT

State Model

The following section will discuss the state model for Device Object. The figure below shows the core logic states.

By default, each state is active for a minimum of 256us to allow for evaluation of state outside of the ADO instance in the user program



Interfaces

Device object interfaces are intended to provide the application programmer a class based harmonized interface for interacting with the device object from user code. Standard control interfaces are used for passing device inputs (Inp), device configuration (Cfg), Settings (Set), Commands (Cmd) and Status (Sts).

The following IO-Device Common Control Interface tags are the primary device program tags to read and write to when interfacing to IO-Devices. The value of using these tags in your specific application code is that you may use a number of different IO-Devices such as 1756-EN4TR without having to update your application device interface tags.

For detailed information on specific interfaces, please refer to the appropriate section in this manual. A list of interface UDTs used in this library follows. Note that *OBJECT* used in the Inp interfaces is replaced with the specific IO-Device object (e.g. 1756-EN4TR).

Interface Class	Object Class	Object Sub-Class	Interface Type	Interface Name (UDT)
Control	IO-Device	IO-Devices	Setting	raC_UDT_ItfAD_IODevice_CtrlSet
			Command	raC_UDT_ItfAD_IODevice_CtrlCmd
			Status	raC_UDT_ItfAD_IODevice_CtrlSts
			Information	raC_UDT_ItfAD_IODevice_Inf
			Interfacing	raC_UDT_ItfAD_IODevices

Data Types

The following IO-Device Common Control Interface tags are the primary device program tags to read to when interfacing to IO-Devices. The value of using these tags in your specific application code is that you may use a number of different IO-Devices such as 1756-EN4TR without having to update your application device interface tags.

raC_UDT_ItfAD_IODevice_Cmd

This is the IO-Device Common Control Interface User-Defined Data Type for device commands. Its members provide application program access to common device commands.

The table below shows member names, descriptions, and tag data types. Note: Physical & Virtual members are not currently used in the Add-On Instruction and are reserved for future use.

Member	Description	DataType
bCmd	Bit Overlay (Visible) covering all subsequent boolean members.	DINT
Physical	1 = Operate as Physical Device.	BOOL
Virtual	1 = Operate as Virtual Device.	BOOL
ResetWarn	1 = Reset device warning.	BOOL
ResetFault	1 = Reset device trip or fault.	BOOL

raC_UDT_ItfAD_IODevice_Inf

This is the IO-Device interfacing data which provide the device type information to the IO-Device.

The below table shows detailed information of members used in this UDT tag.

Member	Description	Data Type
ModulePath	Module CIP path.	STR0032
bExtensionEnabled	Object extension is present in the controller, represented bitwise: 0 = False, 1 = True.	DINT

raC_UDT_ItfAD_IODevice_Set

This is the IO-Device Common Control Interface User-Defined Data Type for device settings. Its members provide application program access to allow or inhibit commands and settings from the device faceplate or other external sources. The table below shows member names, descriptions, and tag data types.

For example, to inhibit write commands from the device faceplate or other external sources write a 1 to the _InstanceName_CtlrSet.InhibitCmd program tag from your application program. This would prevent a Locate, Reset count, Reset Duration commands from the device faceplate.

Member	Description	Data Type
bInhibit	Inhibits (Bit Overlay).	DINT
InhibitCmd	1 = Inhibit user Commands from external sources, 0 = Allow.	BOOL
InhibitSet	1 = Inhibit user Settings from external sources, 0 = Allow.	BOOL
InhibitCfg	1 = Inhibit user Configuration from external sources, 0 = Allow.	BOOL

raC_UDT_ItfAD_IODevice_Sts

This is the IO-Device Common Control interfacing Status tag. By configuring these tags, we can read various status from the device like Ready, Connected, and Available etc. The below table shows detailed information of members used in this UDT tags. Note: Physical & Virtual members are not currently used in the Add-On Instruction and are reserved for future use.

Input	Description	Data Type
eState	Enumerated state value: 0 = Unused 1 = Initializing 2 = Disconnected 3 = Disconnecting 4 = Connecting 5 = Idle 6 = Configuring 7 = Available	DINT
FirstWarning	First Warning Event Data	raC_UDT_Event
FirstFault	First Fault Event Data	raC_UDT_Event
eCmdFail	Enumerated command failure code.	DINT
bSts	Bit overlay (Visible) covering all subsequent boolean members.	DINT
Physical	1 = Controlling physical device.	BOOL

Input	Description	Data Type
Virtual	1 = Controlling virtual device.	BOOL
Connected	1 = PAC to device connection has been established.	BOOL
Ready	1 = Device is ready to ...	BOOL
Warning	1 = A warning is active on the device.	BOOL
Faulted	1 = A fault is active on the device.	BOOL

raC_UDT_Event

Member	Description	Data Type
Type	Event type: 1 = Status 2 = Warning 3 = Fault 4...n = User	DINT
ID	User definable event ID.	DINT
Category	User definable category (Electrical,Mechanical,Materials,Utility,etc.).	DINT
Action	User definable event action code.	DINT
Value	User definable event value or fault code.	DINT
Message	Event message text.	STRING
EventTime_L	Timestamp (Date/Time format).	LINT
EventTime_D	Timestamp (Y,M,D,h,m,s,us).	DINT[7]

raC_UDT_1756_EN4TR_MsgData

This is the IO-Device Message data which provide the command and status related information to the EN4TR.

The below table shows detailed information of members used in this UDT tag.

Member	Description	Data Type
AutoQualOption	Auto-qualification configuration option	INT
AutoQualState	Present state of auto-qualification enabling	INT
ProgCommands	Controls whether or not user programs can initiate redundancy commands	INT
PasswordScope	Controls whether or not redundancy configuration changes and/or user-initiated commands are password protected	INT
ModuleRedundancyState	Indicates the module redundancy state of this module	INT
ChassisRedundancyState	Indicates the chassis redundancy state of this chassis	INT
PartnerRedundancyState	Indicates the module redundancy state of the partner module, if one exists	INT

Member	Description	Data Type
PartnerChassisState	Indicates the chassis redundancy state of the partner chassis, if one exists	INT
QualificationInProgress	Indicates whether the chassis is currently in the qualification process	INT
NotApplied	NA	INT[12]

raC_UDT_LookupMember_STR0082

Member	Description	Data Type
Code	Stores the value of device fault code	DINT
Desc	Stores the Messages related to fault code	STRING

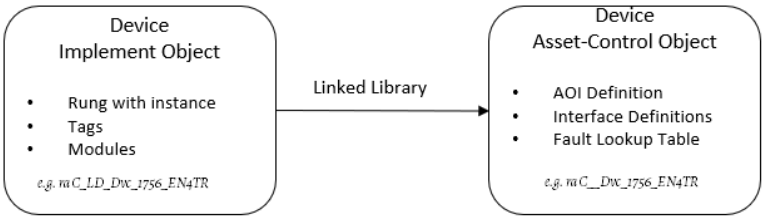
Application Code Manager

Architectural Overview

Device libraries, as with most Application Code Libraries are divided into 2 logical groups: either Asset-Control Object or Device Implement Object.

Asset-Control Objects contain the asset definition of an object and any associated content which belongs to the asset. This includes controller tags, add-on instructions, data types, and attachments such as HMI content and documentation. These are found under the *(RA-LIB) Device > Asset-Control* folder and have names like *raC_Dvc_xxxx* where *xxxx* is the device name.

Device Implement Objects contain an instance of an asset-control object and provide all related configuration of the asset. The Device implement type is the application code (e.g. programming rung). This includes the required controller tags, programs, modules, and FactoryTalk View ME/SE symbols. These are found under the *(RA-LIB) Device > Device* folder and have names like *raC_LD_Dvc_xxxx* where *xxxx* is the device name. LD stands for ladder logic.



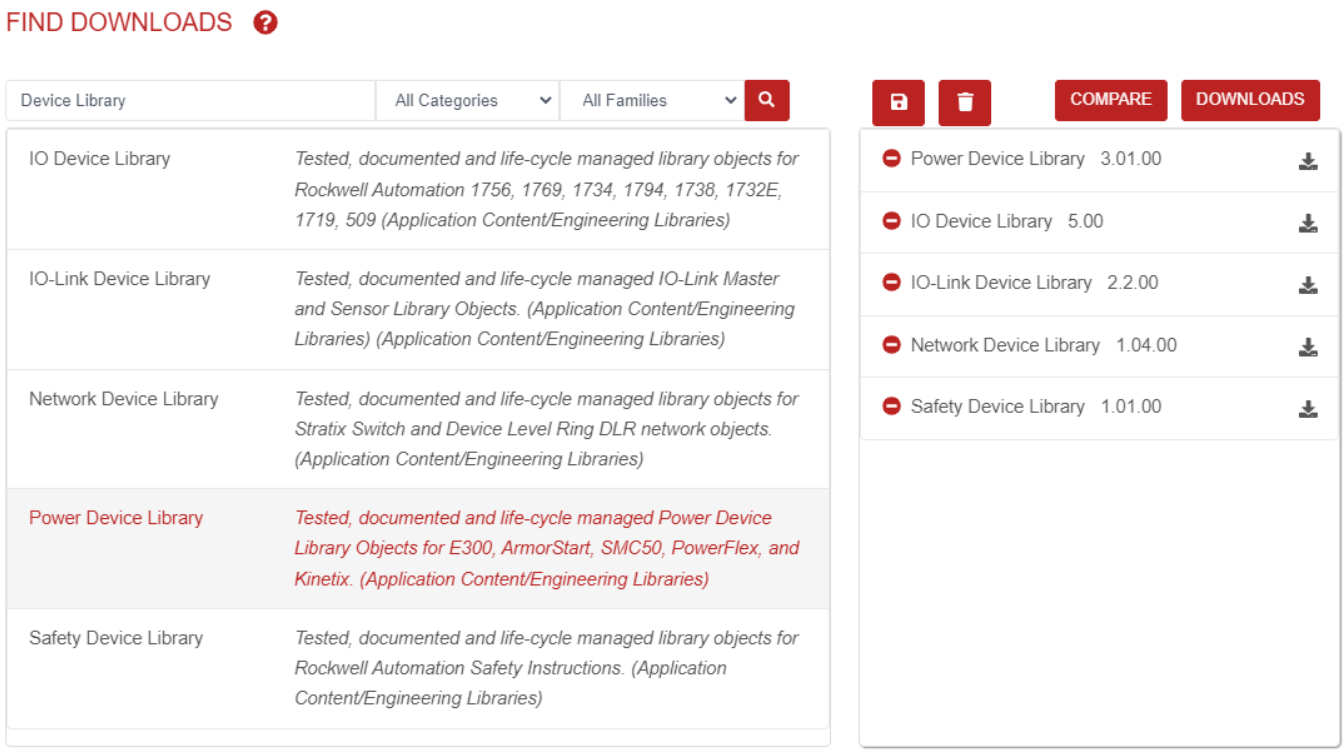
Using the Library

Install the Library

Download the Library

For the latest compatible software information and to download the Rockwell Automation Library, see the Product Compatibility and Download Center.

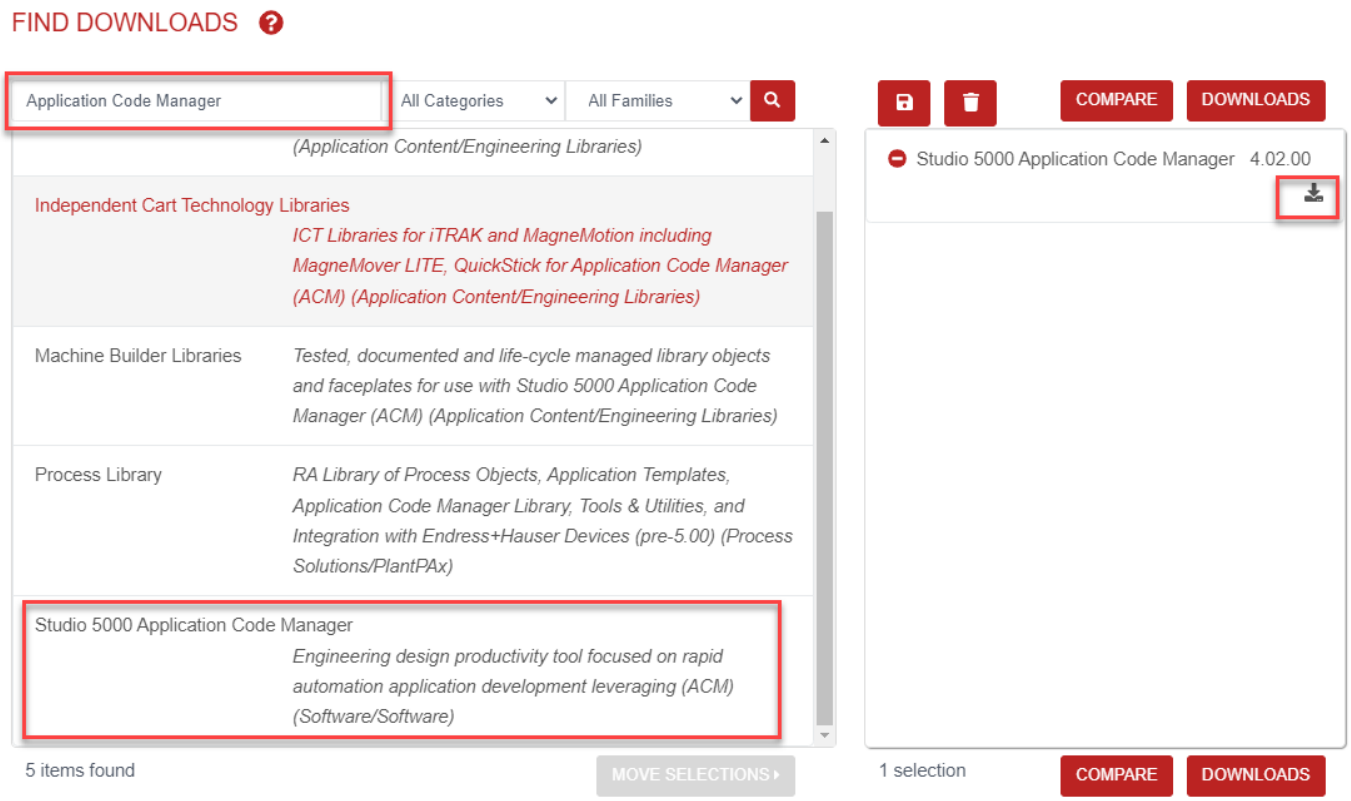
Search “Device Library” or filter on Application Content to quickly find the library.



Download & Install Studio 5000® Application Code Manager

Studio 5000® Application Code Manager is free to install from Rockwell Automation’s Product Compatibility and Download Center.

Search “Application Code Manager” and select the item to download.



Extract the downloaded .zip file by running the *4.xx.00-Studio5000_ACM-DVD.exe* executable file. This will extract a new folder containing a *Setup.exe* file which can be run to begin product installation.

Follow the prompts from the splash screen until installation is complete. Note that a SQL server is required for Application Code Manager. SQL Server Express is offered for free and is included in the Application Code Manager installer.

Register Libraries in Studio 5000 Application Code Manager

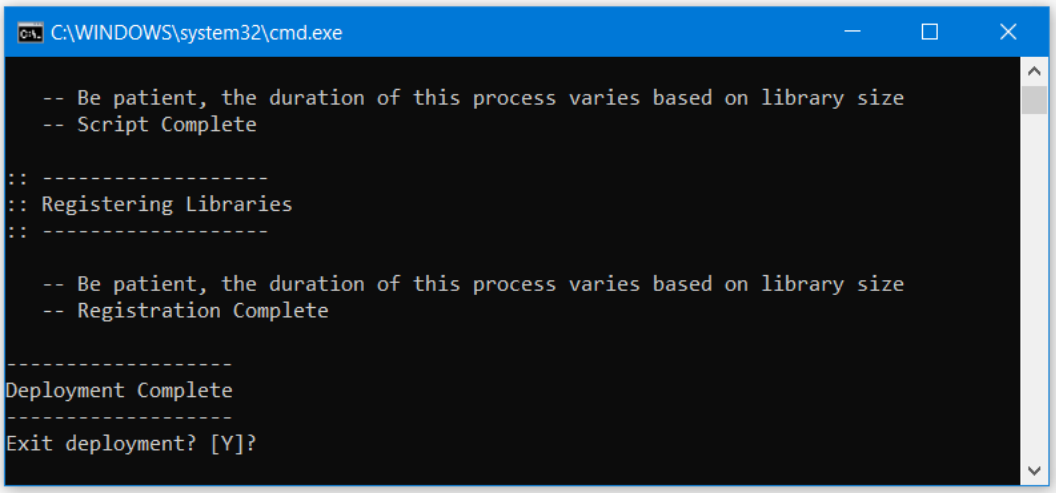
It is recommended that you use Studio 5000® Application Code Manager to add I/O modules to a project and pre-configure FactoryTalk® View ME/SE faceplate HMI objects. To use the library in Application Code Manager you must first register the libraries.

The *Lite* version of Studio 5000® Application Code Manager is free of charge and can be downloaded from the Product Compatibility and Download Centre. None of the features included in the Standard (paid) version are required to use Device Object Libraries.

Register Complete Library Automatically

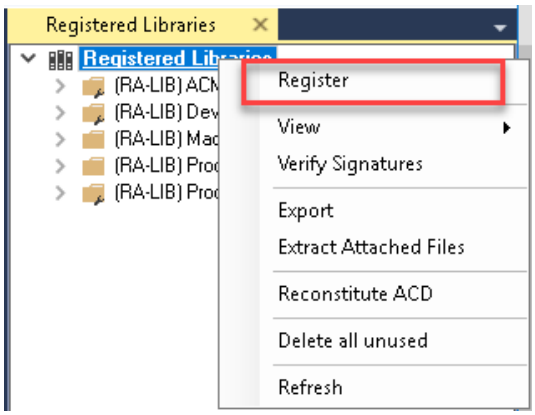
To automatically register the entire library, find and run the *setup.cmd* file in the root folder of the library files. You will see a windows console appear as the

script runs. When it is complete it will display “Deployment Complete”. Enter “Y” to exist the console.



Register Individual Library Objects Manually

As an alternative to registering the entire library using the setup.cmd script, you can manually register one or multiple library objects in Studio 5000® Application Code Manager. Open up Application Code Manager and view the Registered Libraries panel on the right. Right-click on *Registered Libraries* and select *Register*. Browse to the *ApplicationCodeManagerLibraries* folder within the library files and select any HSL4 files that you would like to register. Note you may select more than one at a time. Once you complete registering the desired objects they will be shown under the *(RA-LIB) Device* solution folder.



Using Studio 5000 View Designer

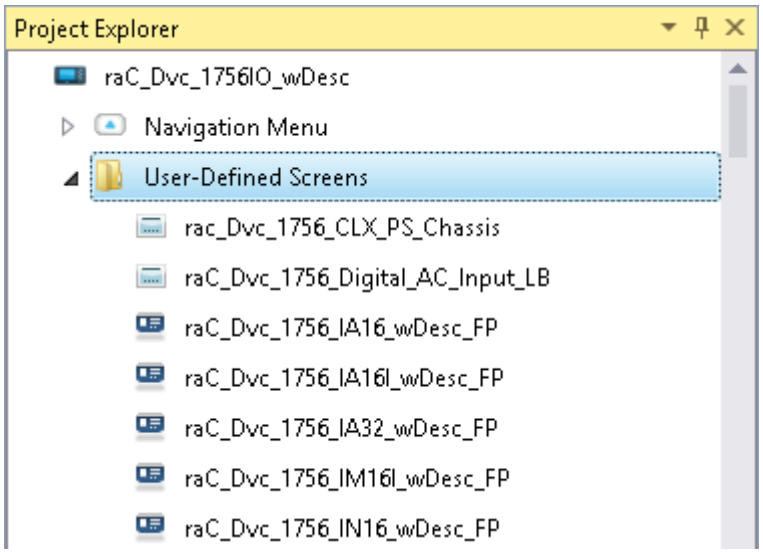
Using View Designer Project Files

Studio 5000 View Designer® may be used for HMI development for PanelView™ 5000 applications. Open up your Studio 5000 View Designer® project alongside a second application instance running the required VSD file in the library folder *HMI - ViewDesigner - vpd*.

In the Library there is a folder named *Videos* which contains many How-To Import Videos which walk step-by-step through each process. You can refer to the following videos for this section: "How_To_Import_and_Configure_IO_Objects_into_View_Designer"

You will notice there are multiple screens available under the *User-Defined Screens* folder:

- raC_Dvc_*XXXX*_*Type*: This has the graphic symbol launch buttons for the faceplate where *XXXX* is the I/O family and *Type* is the module type (e.g. AC_Input).
- raC_Dvc_*XXXX*_wDesc_FP: This is a faceplate pop-up screen.



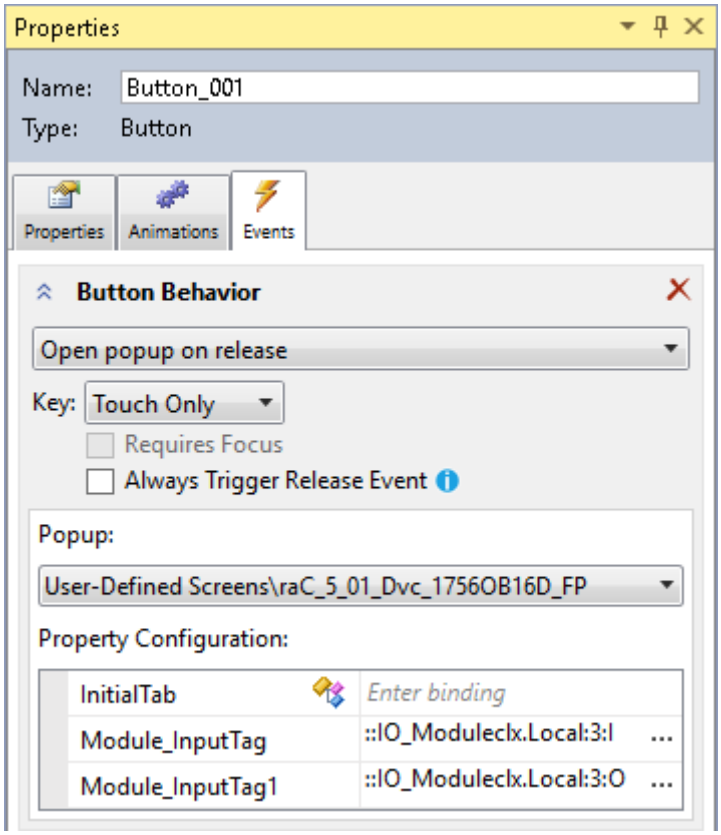
To include these files in your project, perform the following steps:

- Copy the entire faceplate _wDesc_FP screen from the supplied VSD project to your project application.
- Open the graphic symbols screen and copy the desired graphic symbol and paste it into a screen in your project application.

Configuring View Designer Objects

To link the launch button to the faceplate, highlight the button and view the *Events* tab of within the *Properties* pane. Set an Event to *Open popup on release* with the following settings:

- Key: Touch Only
- Popup: Select desired faceplate screen
- Module_InputTag: Browse to Input (:I) tag of the I/O module in your controller file. This is required for all module types.
- Module_OutputTag: Browse to Output (:O) tag of the I/O module in your controller file. This is only defined and required for Output modules and some specialty modules.



Using FactoryTalk® View Studio

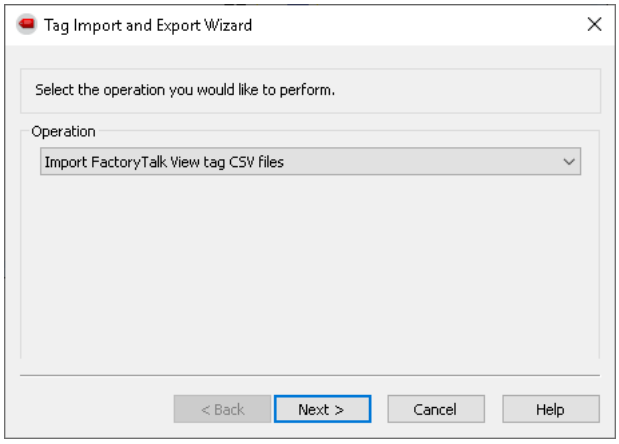
Import HMI Tags

An HMI Tag file *FTViewStudio_IOLibrary_Tags_5_00.CSV* is provided in the root of the library folder for use with FactoryTalk® View ME and SE. This is required to support faceplate navigation between tabs and pages where application.

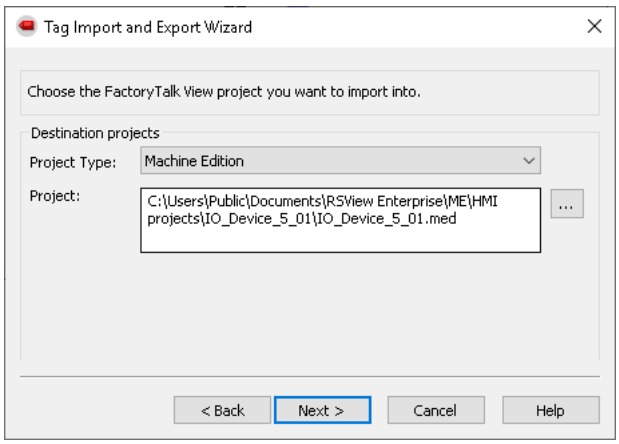
In the Library there is a folder named *Videos* which contains many How-To Import Videos which walk step-by-step through each process. You can refer to the following videos for this section:
"How_To_Import_and_Configure_IO_Objects_in_FTViewME"
"How_To_Import_and_Configure_IO_Objects_in_FTViewSE"

To import the tag file, in FactoryTalk® View Studio go to *Tools > Tag Import and Export Wizard...*

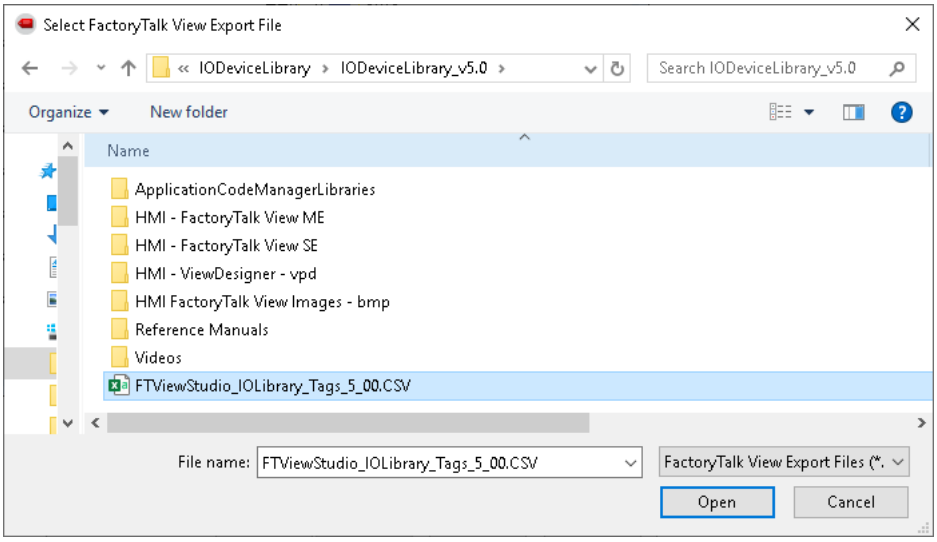
Set the *Operation* to *Import FactoryTalk® View tag CSV files*.



Choose the appropriate *Project Type* (Machine Edition or Site Edition). Browse for the desired project *.MED* file.



Browse for the .CSV file in the root of the IODeviceLibrary_v5.xx library folder.



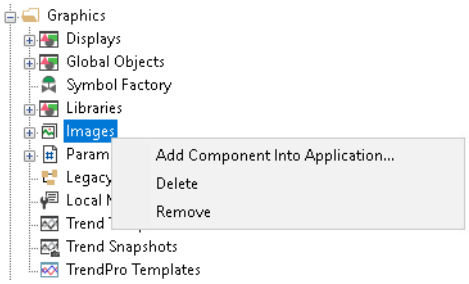
You may choose to Skip existing or Update existing tags. If this has not been done previously the choice should not make a difference.

The following tags are now imported:

Tag Name	Type	Description
IOLibNavTag	Analog	Navigation tag for IO Module Facepaltes
IOLibRevTag	Analog	Revision tag for IO Module Faceplates

Import FactoryTalk® View Visualization Files

There are several components to import for the visualization files. You import files from the downloaded Rockwell Automation library files via FactoryTalk® View ME or FactoryTalk® View SE. The workflow is the same for both FactoryTalk® View ME and SE. All image and display items can be imported either by right-clicking in FactoryTalk® View on the Graphic sub-folder (e.g. Displays, Global Objects, Images) or simply dragging and dropping the files into the application.



Import files in this order:

1. Import HMI Images files.

Select all the images in the *\HMI FactoryTalk® View Images - png* folder and Open.

2. Import Global Object files

   Select the global object (.ggfx) files from the *\HMI - FactoryTalk® View ME\Global Objects - ggfx* or *\HMI - FactoryTalk® View SE\Global Objects - ggfx* folder

3. Import HMI Faceplates

Select the faceplate (.gfx) files from the *\HMI - FactoryTalk® View ME\Displays - gfx* or *\HMI - FactoryTalk® View SE\Displays - gfx* folder

Configuring FactoryTalk® View Objects

Once the files have been imported into the FactoryTalk® View Studio project, you can begin using them in your application. Open the *Global Display (raC-5-ME) Graphic Symbols - IO Device*. Copy the desired launch button style and paste it into a display in your application where you would like to open the faceplate. For more information on graphic symbols, refer to the Graphic Symbols section of the specific device type chapter in this manual.

To configure the graphic symbol launch button, right-click and select *Global Object Parameter Values*. You can browse for the tag in your controller project by clicking '...' or manually type them in. These parameters may vary depending on the graphic symbol used, please refer to the Graphic Symbols section of the device type for detailed information. Generally Global Object Parameters for the IO Device Library are defined as follows:

Name/#	Description	Mandatory
#102	Faceplate Display Name e.g. (raC-5_00-ME) raC_Dvc_XXXX_XXXX-Faceplate	Yes
#103	IO Module Input Tag .e.g. {::[Topic Name]Local:1:I}	Yes
#104	IO Module Output Tag .e.g. {::[Topic Name]Local:1:O}	Output Modules Only
#106	Custom Button Label. Leave blank to use InputTag.@Description	No
#111	IO Class: Blank=Standard; 1=Safety	No
#120	Display's left position (e.g. 100)	No
#121	Display's top position (e.g. 100)	No

Global Object Parameter Values

	Name	Value	Tag	Description
1	#102	(raC-5_01-ME) raC_Dvc_1756_OB16D-Faceplate	•••	Faceplate Display Name e.g. (raC-5_00-ME) raC_Dvc_XXXX_XXXX-Faceplate
2	#103	{::[CLX]R1756:5:I}	•••	IO Module Input Tag e.g. {::[Topic Name]Local:1:I}
3	#104	{::[CLX]R1756:5:O}	•••	IO Module Output Tag e.g. {::[Topic Name]Local:1:O}
4	#106	DO	•••	Custom button label. Leave blank to use InputTag.@Description
5	#120		•••	Display's left position (e.g. 100)
6	#121		•••	Display's top position (e.g. 100)

These Global Object Parameter Values are automatically configured when you use Studio 5000® Application Code Manager to design and configure your project. Refer to Using Studio 5000® Application Code Manager for more information.

Importing Logic into Studio 5000® Projects

There are multiple methods to using the logic in a Studio 5000 application. For projects that are being developed from scratch using Application Code Manager along with other Application Code Libraries such as the PlantPAx Process Objects Library or the Machine Builder Library, you can continue to use the Device Object Libraries in Application Code Manager. For existing applications where devices are being added, it is recommended to use the Studio 5000 Plug-In "Import Library Objects" Wizard. Alternatively you can import the RUNG.L5X files into your program and configure them manually.

In the Library there is a folder named *Videos* which contains many How-To and Operational Overview Videos which walk step-by-step through each process. You can refer to the following videos for this section:

"How_To_Import_and_Configure_*IO_Device*_Objects_in_LogixDesigner.mp4"

It is not recommended to simply import the AOI.L5X files and attempt to build your own logic rung. Doing so will increase the likelihood of configuration errors and likely miss logic that is required outside of the Add-On Instruction.

AOI files should only be imported when updating an existing application from a previous version of a Device Object Library to a newer one.

Below is a table to capture recommendations on when to use which tool or workflow when importing and configuring device objects.

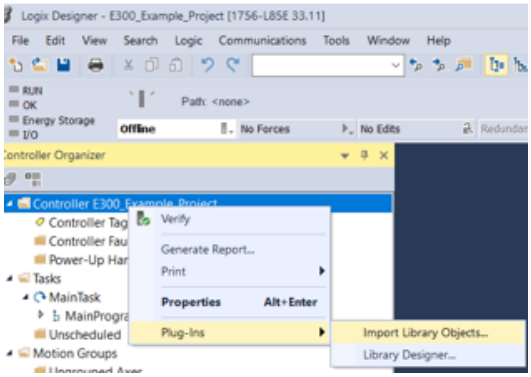
Tool/Workflow	Description of when to use	Software Requirements
Application Code Manager (full application)	Project is developed from scratch using Application Code Manager along with PlantPAx or Machine Builder libraries.	Studio 5000 Logix Designer® Studio 5000® Application Code Manager (Lite)

Tool/Workflow	Description of when to use	Software Requirements
Studio 5000 Plug-In “Import Library Objects” Wizard	Application Code Manager is installed but not required for the entire project. Application has already been developed but some Device Objects need to be added.	Studio 5000 Logix Designer® Studio 5000® Application Code Manager (Lite)
Import RUNG.L5X File	Application Code Manager is not installed. Application has already been developed but some Device Objects need to be added. Familiar with rung import workflow.	Studio 5000 Logix Designer®
Import AOI.L5X File	Updating existing application that contains an older version of a Device Object AOI.	Studio 5000 Logix Designer®

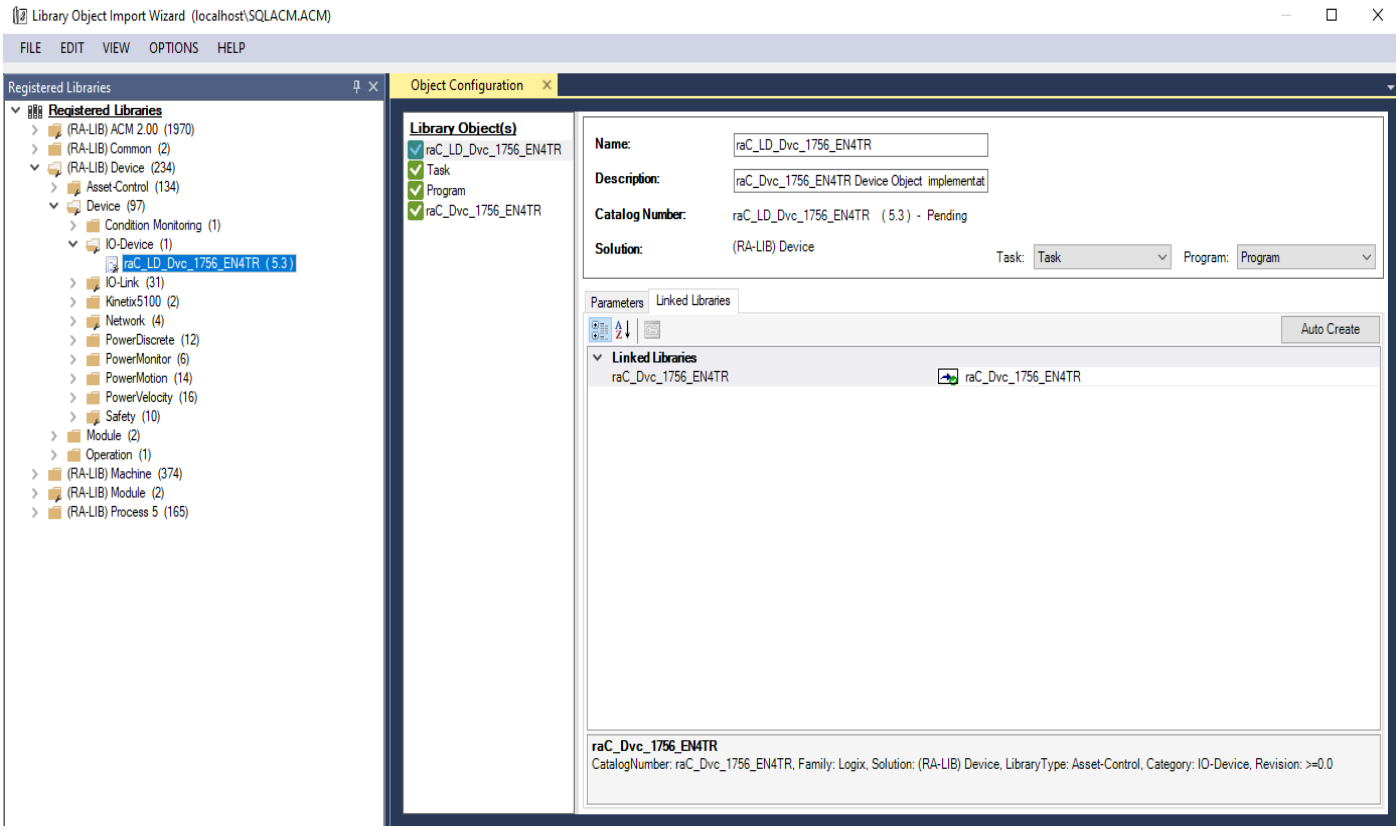
Import Library Objects Wizard

The most simple way to import a Device Object into an existing application is to use the Studio 5000 Plug-In “Import Library Objects” wizard. This plug-in requires Application Code Manager to be installed but does not require it to be open or have a project created.

Right click on an item (e.g. Controller, Task, Program, etc) in the Controller Organizer and select *Plug-Ins* > *Import Library Objects...*



This will launch a small wizard version of Application Code Manager inside of your Studio 5000 Logix Designer® Project. In the Registered Libraries panel on the left, find your desired object under *Registered Libraries* > *(RA-LIB) Device* > *Device* and drag it into the Library Object(s) list in the Object Configuration Tab.



Perform the following configuration:

- Enter a **name** and **description**. Maximum name length can be 22 characters. Note that other parameters such as the RoutineName, TagName, etc will auto-complete based on these fields.
- Assign the **Task** and **Program**.
- The **ModuleReference** represents the IO-Device Module to which the IO-device is connected.
- Assign the **ModuleName** by typing or browsing to the instance of the IO-Device Module in the controller project (e.g. 1756-EN4TR)
- The HMI Configuration options are not used in the Plug-In Wizard and can be ignored.
- Click next or click on the *Linked Libraries* tab. Click the *Auto Create* button to automatically create all of the required linked libraries.

You can manually create new linked libraries or point to existing linked libraries if necessary. You may need to do this if you would like to use an older version of library objects when multiple versions are installed in Application Code Manager.

- On the following screen you can select the desired Merge Actions. Generally these can be left with the default actions.
  - Add: used when AOIs don't previously exist in application
  - Overwrite: usually preferred. Used when AOIs previously exist but may or may not be the same revision.
  - Use Existing: used when AOIs previously exist in the application and you do not wish to overwrite the existing items.
- Click next and you can now see any new logic and modules that will be created.
- Click Finish to complete the import.

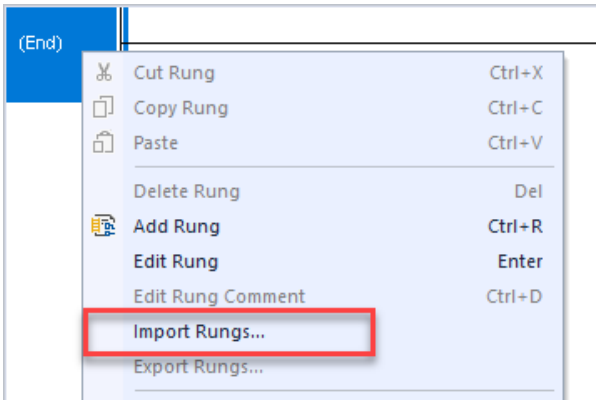
Import Rung Logic

An Add-On Instruction is defined once in each controller project, and can be instantiated multiple times in your application code. To use pre-engineered logic, import each desired RUNG.L5X file into a controller project.

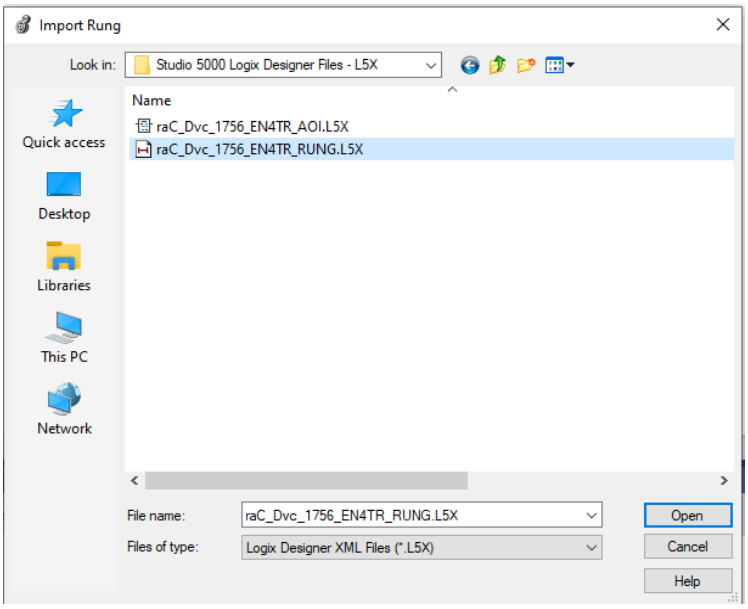
1. In the Studio 5000 Logix Designer® application, open a new or existing project.

IMPORTANT Add-On Instruction definitions can be imported, but not updated, online.

2. Choose or create a new ladder routine to open. Right-click in the routine ladder and choose Import Rungs...



3. Select the desired RUNG and Select Import. The file will have a name like *raC_Dvc_1756_EN4TR_RUNG.L5X*.



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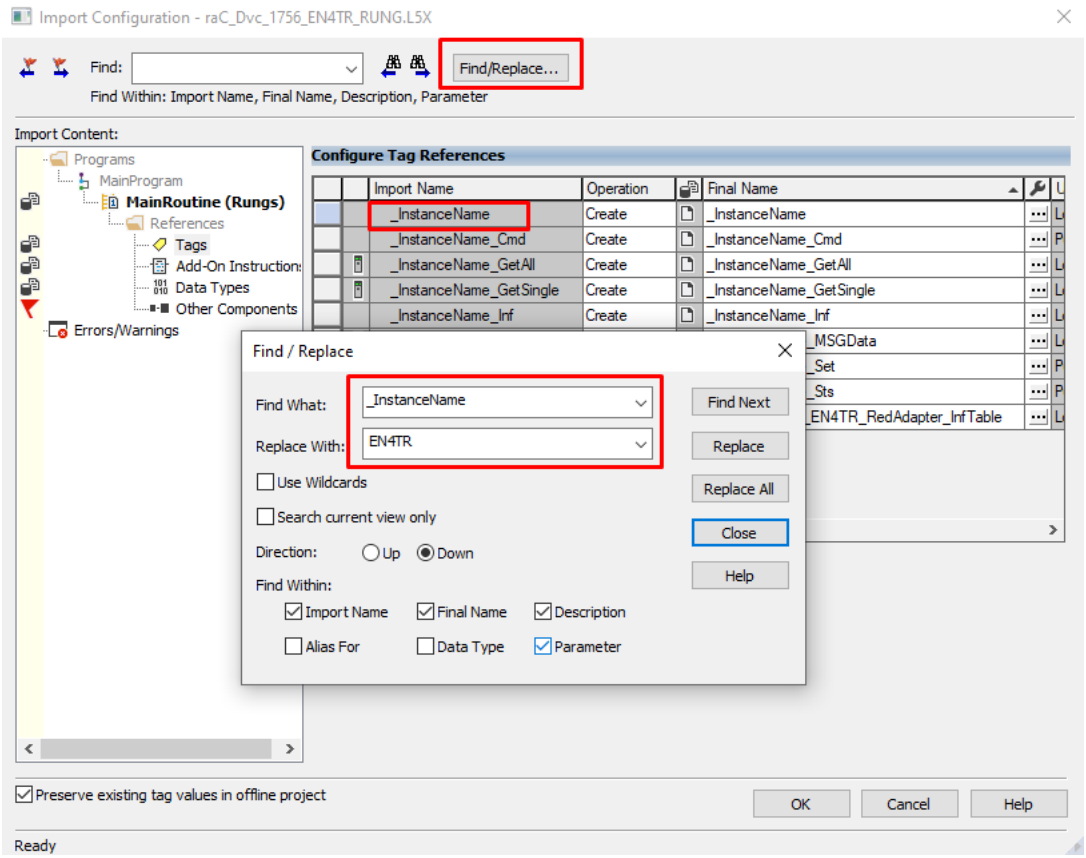
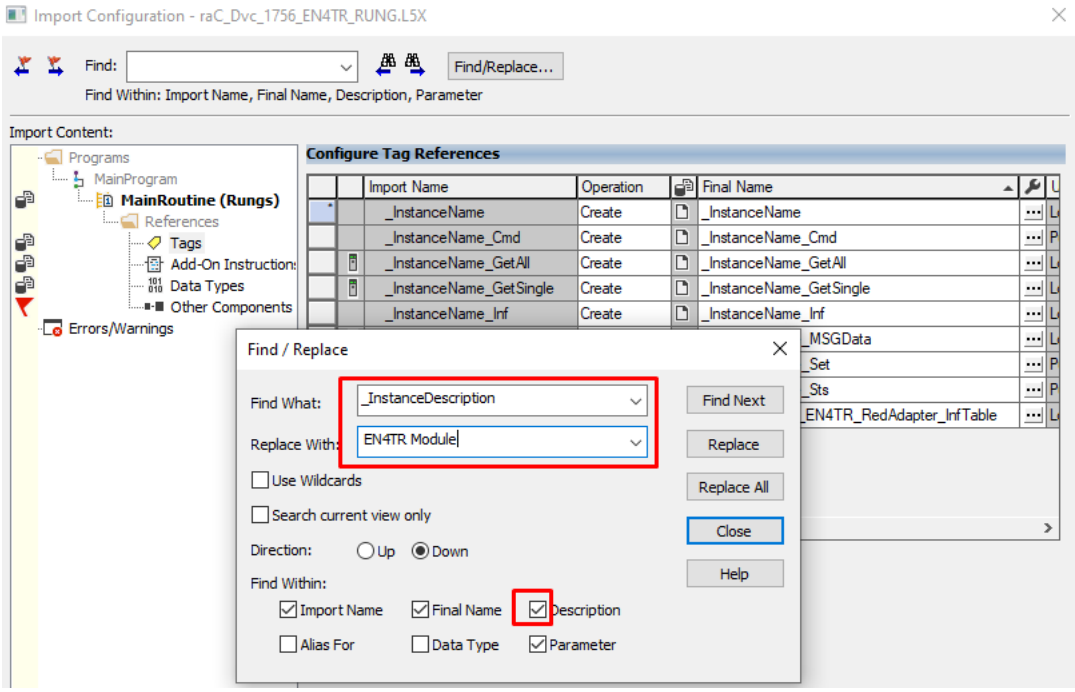
Both "RUNG" and "AOI" .L5X files are provided. Import the RUNG file to get all required additional tags, data types, and message configurations.

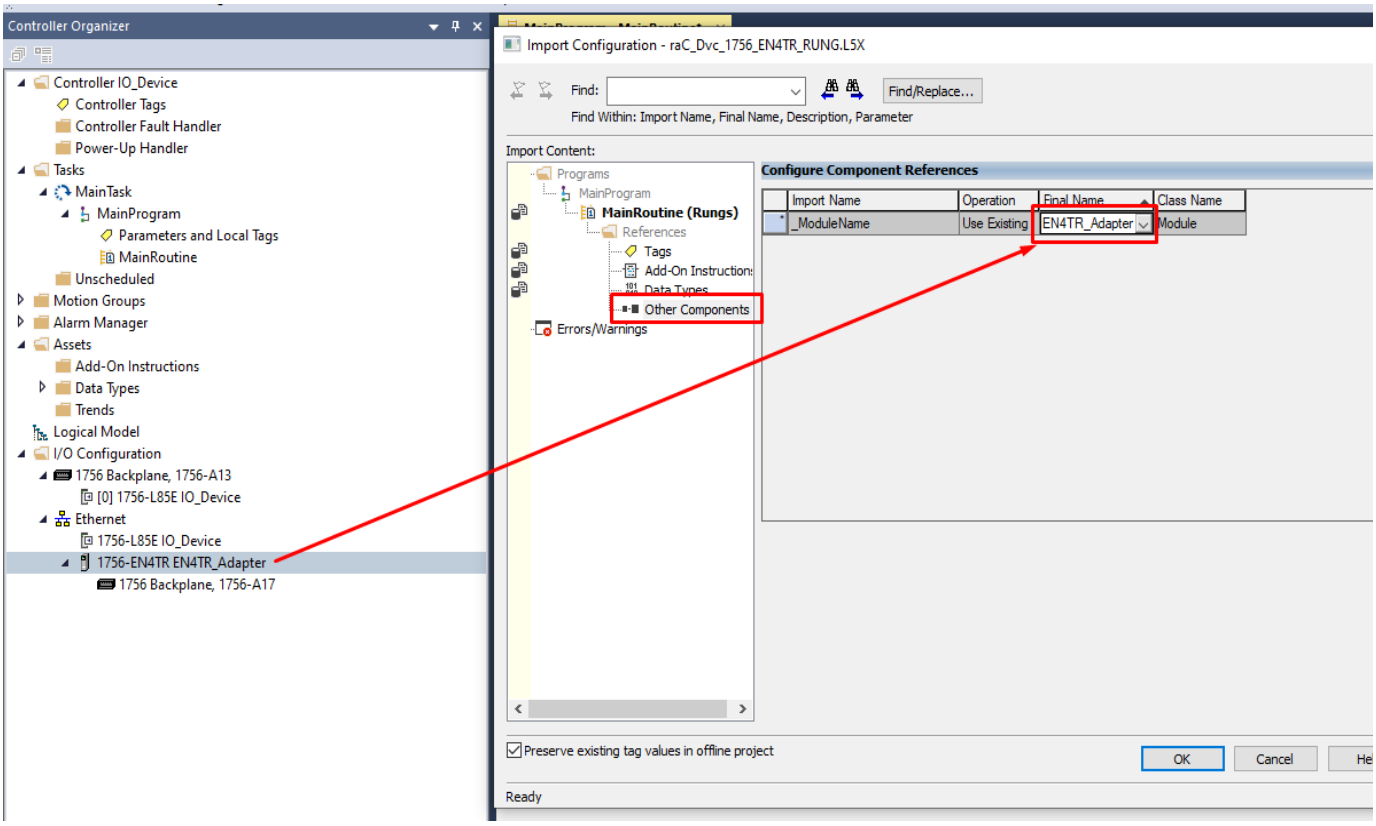
4. An *Import Configuration* dialogue window will open and display generic Import names which include "_InstanceName". Click the *Find/Replace...* button and replace all instances of "_InstanceName" with your desired device name (e.g. "EN4TR").



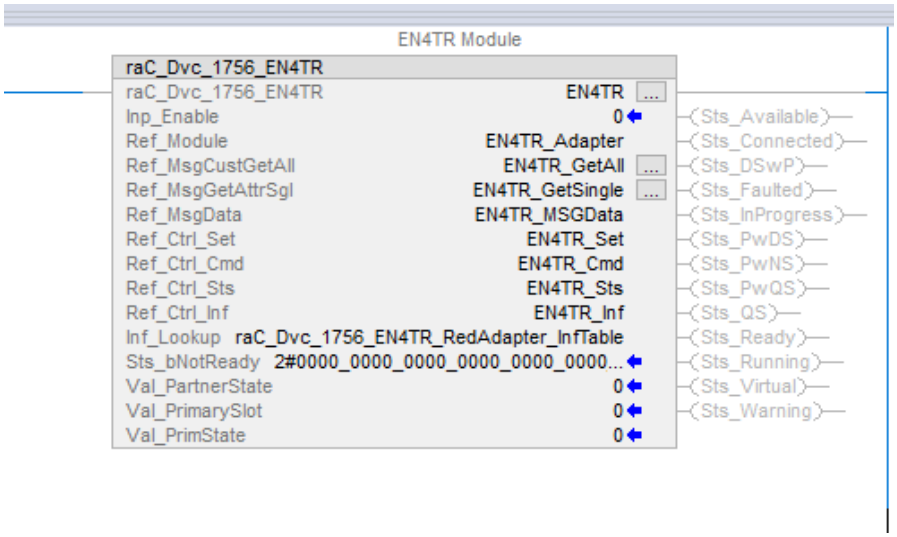
5. Click the *Find/Replace...* button and replace of "Instance_Description" with your desired description e.g. "EN4TR Module").



6. Click the *Other Componets...* and select of "_ModuleName" with your desired Module Name e.g. "EN4TR_Adapter").



7. Click “OK” on the “Import Configuration dialog box”. The rung will now be imported into your ladder routine.



Module Definition

Module Configuration

The specified Configuration is necessary when user manually creating Studio 5000 Project. However if Application Code Manager is used for Project construction, these configurations are automatically managed. According to the faceplate user are required to adjust module settings. Refer to the table below for necessary configurations across all series.

1715 High- Availability I/O Configuration

FactoryTalk View xx Faceplate	Connection	Input / Output Data	Data Format	Redundant	SIL2 safety	HART Enabled
(raC-5_xx-xx) raC_Dvc_1715_IF16_AnalogDuplex-Faceplate.gfx	Data	Analog only	Float	Yes	No	No
(raC-5_xx-xx) raC_Dvc_1715_IF16_AnalogSimplex-Faceplate.gfx				No		
(raC-5_xx-xx) raC_Dvc_1715_IF16_HARTDuplex-Faceplate.gfx				Yes		Yes
(raC-5_xx-xx) raC_Dvc_1715_IF16_HARTSimplex-Faceplate.gfx				No		
(raC-5_xx-xx) raC_Dvc_1715_OF8I_AnalogDuplex-Faceplate.gfx				Yes		No
(raC-5_xx-xx) raC_Dvc_1715_OF8I_AnalogSimplex-Faceplate.gfx				No		
(raC-5_xx-xx) raC_Dvc_1715_OF8I_HARTDuplex-Faceplate.gfx				Yes		Yes
(raC-5_xx-xx) raC_Dvc_1715_OF8I_HARTSimplex-Faceplate.gfx				No		
(raC-5_xx-xx) raC_Dvc_1715_IB16D_Duplex-Faceplate.gfx		N/A	N/A	Yes		N/A
(raC-5_xx-xx) raC_Dvc_1715_IB16D_Simplex-Faceplate.gfx				No		
(raC-5_xx-xx) raC_Dvc_1715_OB8DE_Duplex-Faceplate.gfx				Yes		
(raC-5_xx-xx) raC_Dvc_1715_OB8DE_Simplex-Faceplate.gfx				No		

1719 Ex I/O Configuration

FactoryTalk View xx Faceplate	Input / Output Data	Output Data
(raC-5_xx-xx) raC_Dvc_1719_IF4HB-Faceplate.gfx	Data	Analog Data + HART
(raC-5_xx-xx) raC_Dvc_1719_IR4B-Faceplate.gfx		Analog Data
(raC-5_xx-xx) raC_Dvc_1719_IT4B-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1719_IBN8-Faceplate.gfx		N/A
(raC-5_xx-xx) raC_Dvc_1719_IBN8B-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1719_OB2-Faceplate.gfx		Low Current ,two points
(raC-5_xx-xx) raC_Dvc_1719_OB2L-Faceplate.gfx		

1732E Armor Block Configuration

FactoryTalk View xx Faceplate	Connection	Data Format	Time Stamp	Enable MAOC Support
(raC-5_xx-xx) raC_Dvc_1732E_IF4M12R-Faceplate.gfx	Data	N/A	N/A	N/A
(raC-5_xx-xx) raC_Dvc_1732E_IR4IM12R-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_1732E_IT4IM12R-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_1732E_OF4M12R-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_1732E_IB16M12-Faceplate.gfx		Integer		
(raC-5_xx-xx) raC_Dvc_1732E_IB16M12R-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_1732E_IB16M12W-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_1732E_IB8M8SOER-Faceplate.gfx		N/A	Per Point	
(raC-5_xx-xx) raC_Dvc_1732E_OB16M12-Faceplate.gfx		Integer	N/A	
(raC-5_xx-xx) raC_Dvc_1732E_OB16M12R-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_1732E_OB8M8SR-Faceplate.gfx		N/A	Per Point	Yes

1732E Armor Block Safety Configuration

FactoryTalk View xx Faceplate	Input Data	Input Status	Output Data	Data Format
(raC-5_xx-xx) raC_Dvc_1732ES_IB12XOB4_Safety-Faceplate.gfx	Safety	Pt.Status-Muting	Safety	Integer
(raC-5_xx-xx) raC_Dvc_1732ES_IB12XOB4_SafetyTestOutput-Faceplate.gfx	Safety - Readback	Pt. Status - Muting - Test Output	Combined	
(raC-5_xx-xx) raC_Dvc_1732ES_IB12XOBV2_Safety-Faceplate.gfx	Safety	Pt.Status-Muting	Safety	
(raC-5_xx-xx) raC_Dvc_1732ES_IB12XOBV2_SafetyTestOutput-Faceplate.gfx	Safety - Readback	Pt. Status - Muting - Test Output	Combined	

FactoryTalk View xx Faceplate	Input Data	Input Status	Output Data	Data Format
(raC-5_xx-xx) raC_Dvc_1732ES_IB16_SafetyTestOutput - Faceplate.gfx	safety	Pt. Status - Muting - Test Output	Test	N/A
(raC-5_xx-xx) raC_Dvc_1732ES_IB8XOB8_Safety-Faceplate.gfx	Safety	Pt.Status-Muting	Safety	
(raC-5_xx-xx) raC_Dvc_1732ES_IB8XOB8_SafetyTestOutput-Faceplate.gfx	Safety - Readback	Pt. Status - Muting - Test Output	Combined	
(raC-5_xx-xx) raC_Dvc_1732ES_IB8XOBV4_Safety-Faceplate.gfx	Safety	Pt.Status-Muting	Safety	
(raC-5_xx-xx) raC_Dvc_1732ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx	Safety - Readback	Pt. Status - Muting - Test Output	Combined	

1734 POINT IO Configuration

FactoryTalk View xx Faceplate	Connection	Data Format
(raC-5_xx-xx) raC_Dvc_1734_IE2C-Faceplate.gfx	Data	Integer
(raC-5_xx-xx) raC_Dvc_1734_IE2V-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IE4C-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IE8C-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IR2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IR2E-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IT2I-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734sc_IE2CH-Faceplate.gfx		Analog with Hart
(raC-5_xx-xx) raC_Dvc_1734sc_IE4CH-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734sc_IF4U-Faceplate.gfx		N/A
(raC-5_xx-xx) raC_Dvc_1734_OE2C-Faceplate.gfx		Integer
(raC-5_xx-xx) raC_Dvc_1734_OE2V-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OE4C-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734sc_OE2CIH-Faceplate.gfx		Analog with Hart
(raC-5_xx-xx) raC_Dvc_1734_8CFG-Faceplate.gfx		Integer
(raC-5_xx-xx) raC_Dvc_1734_IA2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IA4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IB2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IB4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IB8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IM2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IM4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IV2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IV4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IV8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_IB4D-Faceplate.gfx	Diagnostics Data	

FactoryTalk View xx Faceplate	Connection	Data Format
(raC-5_xx-xx) raC_Dvc_1734_OA2-Faceplate.gfx	Data	Integer
(raC-5_xx-xx) raC_Dvc_1734_OA4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OB2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OB2E-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OB2EP-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OB4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OB4E-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OB8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OB8E-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OV2E-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OV4E-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OV8E-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OW2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OW4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1734_OX2-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_17x4_xx2-Faceplate.gfx	Data Rack Optimization	
(raC-5_xx-xx) raC_Dvc_17x4_xx4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_17x4_xx8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_17x4_xx16-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_17x4_xx32-Faceplate.gfx		

1734 POINT IO Safety Configuration

FactoryTalk View xx Faceplate	Input Data	Output Data	Process Data	Input Status
(raC-5_xx-xx) raC_Dvc_1734_IE4S_Safety-Faceplate.gfx	Safety	None	Status Alarm Faults	N/A
(raC-5_xx-xx) raC_Dvc_1734_IB8S_Safety-Faceplate.gfx	N/A		N/A	Pt- Status
(raC-5_xx-xx) raC_Dvc_1734_IB8S_SafetyTestOutput-Faceplate.gfx		Test		Pt-Staus-Power-Muting -Test output
(raC-5_xx-xx) raC_Dvc_1734_OB8S_Safety-Faceplate.gfx		Safety		Pt- Status - Readback
(raC-5_xx-xx) raC_Dvc_1734_OBV2S_Safety-Faceplate.gfx				

1738 IO Configuration

FactoryTalk View xx Faceplate	Connection	Data Format
(raC-5_xx-xx) raC_Dvc_1738_IE2CM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IE2VM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IE4CM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IR2M12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IT2IM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OE2CM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OE2VM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OE4CM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IA2M12AC3-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IA2M12AC4-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IB2M12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IB4M8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IB4M12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IB8M8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IB8M12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IB8M23-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IV4M12-Faceplate.gfx	Data	Integer
(raC-5_xx-xx) raC_Dvc_1738_IV8M12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_IV8M23-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OA2M12AC3-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB2EM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB2EPM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB4EM8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB4EM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB8EM8-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB8EM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB8EM23-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB16E19M23-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB16E25DS-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OB16EM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OV4EM12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OW4M12-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_1738_OW4M12AC-Faceplate.gfx		

1756 ControlLogix IO Configuration

FactoryTalk View xx Faceplate	Connection	Input / Output Data	Data Format	Coordinated System time	Comm Format	Configure HART Device(s)
(raC-5_xx-xx) raC_Dvc_1756_IF16_SingleEnded-Faceplate.gfx	Data	Single-Ended Data	Integer	N/A	N/A	N/A
(raC-5_xx-xx) raC_Dvc_1756_IF16_Differential-Faceplate.gfx		Differential Data	Float			
(raC-5_xx-xx) raC_Dvc_1756_IF16H-Faceplate.gfx		Analog and HART by Channel		Timestamped		
(raC-5_xx-xx) raC_Dvc_1756_IF16IH-Faceplate.gfx		Analog and HART by Channel				
(raC-5_xx-xx) raC_Dvc_1756_IF4FXOF2F-Faceplate.gfx		N/A	N/A	N/A		
(raC-5_xx-xx) raC_Dvc_1756_IF6CIS-Faceplate.gfx	N/A				Float Data	
(raC-5_xx-xx) raC_Dvc_1756_IF6I-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IF8_SingleEnded-Faceplate.gfx	Data	Single-Ended Data	Float	N/A	N/A	
(raC-5_xx-xx) raC_Dvc_1756_IF8_Differential-Faceplate.gfx		Differential Data				
(raC-5_xx-xx) raC_Dvc_1756_IF8H-Faceplate.gfx		Analog and HART by Channel	N/A			
(raC-5_xx-xx) raC_Dvc_1756_IF8I-Faceplate.gfx	Input Data	N/A				
(raC-5_xx-xx) raC_Dvc_1756_IF8IH-Faceplate.gfx	Data	Analog and HART by Channel				
(raC-5_xx-xx) raC_Dvc_1756_IR12-Faceplate.gfx	Input Data	N/A				
(raC-5_xx-xx) raC_Dvc_1756_IR6I-Faceplate.gfx	N/A				Float Data	
(raC-5_xx-xx) raC_Dvc_1756_IRT8I-Faceplate.gfx	Input Data				N/A	
(raC-5_xx-xx) raC_Dvc_1756_IT16-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IT6I-Faceplate.gfx	N/A				Float Data	
(raC-5_xx-xx) raC_Dvc_1756_IT6I2-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OF4-Faceplate.gfx	Data	Data	Float		N/A	
(raC-5_xx-xx) raC_Dvc_1756_OF6CI-Faceplate.gfx	N/A	N/A	N/A		Float Data	
(raC-5_xx-xx) raC_Dvc_1756_OF6VI-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OF8-Faceplate.gfx	Data	Data	Float		N/A	
(raC-5_xx-xx) raC_Dvc_1756_OF8H-Faceplate.gfx		Analog and HART by Channel		Timestamped		
(raC-5_xx-xx) raC_Dvc_1756_OF8I-Faceplate.gfx	Output Data	N/A	N/A	N/A		
(raC-5_xx-xx) raC_Dvc_1756_OF8IH-Faceplate.gfx	Data	Analog and HART by Channel	Float	Timestamped		No
(raC-5_xx-xx) raC_Dvc_1756sc_IF8U-Faceplate.gfx		N/A				N/A

FactoryTalk View xx Faceplate	Connection	Input / Output Data	Data Format	Coordinated System time	Comm Format	Configure HART Device(s)
(raC-5_xx-xx) raC_Dvc_1756_IA16-Faceplate.gfx	Data	Data	N/A	N/A	N/A	N/A
(raC-5_xx-xx) raC_Dvc_1756_IA16I-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IA32-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IA8D-Faceplate.gfx		N/A				
(raC-5_xx-xx) raC_Dvc_1756_IB16-Faceplate.gfx		Data				
(raC-5_xx-xx) raC_Dvc_1756_IB16D-Faceplate.gfx		N/A				
(raC-5_xx-xx) raC_Dvc_1756_IB16I-Faceplate.gfx		Data				
(raC-5_xx-xx) raC_Dvc_1756_IB16IF-Faceplate.gfx		TimeStamp Data				
(raC-5_xx-xx) raC_Dvc_1756_IB16ISOE-Faceplate.gfx	CIP sync Per point	N/A				
(raC-5_xx-xx) raC_Dvc_1756_IB32-Faceplate.gfx	Data	Data				
(raC-5_xx-xx) raC_Dvc_1756_IC16-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IG16-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IH16I-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IH16ISOE-Faceplate.gfx	CIP sync Per point	N/A				
(raC-5_xx-xx) raC_Dvc_1756_IM16I-Faceplate.gfx	Data	Data				
(raC-5_xx-xx) raC_Dvc_1756_IN16-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IV16-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_IV32-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OA16-Faceplate.gfx		Timestamp Data				
(raC-5_xx-xx) raC_Dvc_1756_OA16I-Faceplate.gfx		Data				
(raC-5_xx-xx) raC_Dvc_1756_OA8-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OA8D-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OA8E-Faceplate.gfx		Timestamp Data				
(raC-5_xx-xx) raC_Dvc_1756_OB16D-Faceplate.gfx		Data				
(raC-5_xx-xx) raC_Dvc_1756_OB16E-Faceplate.gfx		Timestamp Data				
(raC-5_xx-xx) raC_Dvc_1756_OB16I-Faceplate.gfx		Data				
(raC-5_xx-xx) raC_Dvc_1756_OB16IEF-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OB16IEFS-Faceplate.gfx		Schedule Per Point				
(raC-5_xx-xx) raC_Dvc_1756_OB16IS-Faceplate.gfx		Data				
(raC-5_xx-xx) raC_Dvc_1756_OB32-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OB8-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OB8EI-Faceplate.gfx		Timestamp Data				
(raC-5_xx-xx) raC_Dvc_1756_OB8I-Faceplate.gfx		N/A			Output Data	
(raC-5_xx-xx) raC_Dvc_1756_OC8-Faceplate.gfx		Data			N/A	
(raC-5_xx-xx) raC_Dvc_1756_OG16-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OH8I-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_ON8-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OV16E-Faceplate.gfx		Timestamp Data				
(raC-5_xx-xx) raC_Dvc_1756_OV32E-Faceplate.gfx						
(raC-5_xx-xx) raC_Dvc_1756_OW16I-Faceplate.gfx		Data				

FactoryTalk View xx Faceplate	Connection	Input / Output Data	Data Format	Coordinated System time	Comm Format	Configure HART Device(s)
(raC-5_xx-xx) raC_Dvc_1756_OX8I-Faceplate.gfx	Data	Data	N/A	N/A	N/A	N/A
(raC-5_xx-xx) raC_Dvc_1756sc_IC32-Faceplate.gfx	CST Timestamped Input	N/A				
(raC-5_xx-xx) raC_Dvc_1756_HSC-Faceplate.gfx	N/A				HSC data	

1756 ControlLogix IO Safety Configuration

FactoryTalk View xx Faceplate	Input / Output Data	Output Mode
(raC-5_xx-xx) raC_Dvc_1756_IB16S_Safety-Faceplate.gfx	Safety Data	N/A
(raC-5_xx-xx) raC_Dvc_1756_OBV8S_SafetyBipolar-Faceplate.gfx		Bipolar
(raC-5_xx-xx) raC_Dvc_1756_OBV8S_SafetySourcing-Faceplate.gfx		Sourcing

1769 Compact IO Configuration

FactoryTalk View xx Faceplate	Connection	Data Format	Mode
(raC-5_xx-xx) raC_Dvc_1769_IF16C-Faceplate.gfx	Data	Integer	N/A
(raC-5_xx-xx) raC_Dvc_1769_IF16V-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IF4-Faceplate.gfx	Input		
(raC-5_xx-xx) raC_Dvc_1769_IF4FXOF2F-Faceplate.gfx	Output		
(raC-5_xx-xx) raC_Dvc_1769_IF4I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IF4XOF2-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IF8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IR6-Faceplate.gfx	Input		
(raC-5_xx-xx) raC_Dvc_1769_IT6-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OF2-Faceplate.gfx	Output		
(raC-5_xx-xx) raC_Dvc_1769_OF4-Faceplate.gfx	Data		
(raC-5_xx-xx) raC_Dvc_1769_OF4CI-Faceplate.gfx	Output		
(raC-5_xx-xx) raC_Dvc_1769_OF4VI-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OF8C-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OF8V-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769sc_IF4IH-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769sc_IF8U-Faceplate.gfx	Input		
(raC-5_xx-xx) raC_Dvc_1769sc_IR6I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769sc_IT6I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769sc_OF4IH-Faceplate.gfx	Output		
(raC-5_xx-xx) raC_Dvc_1769_IG16-Faceplate.gfx	Input		
(raC-5_xx-xx) raC_Dvc_1769_IM12-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IQ16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IQ16F-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IQ32-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IQ32T-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_IQ6XOW4-Faceplate.gfx	Output		
(raC-5_xx-xx) raC_Dvc_1769_OA16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OA8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OB16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OB16P-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OB32-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OB32T-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OB8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OG16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OV16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OV32T-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OW16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OW8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_OW8I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1769_ASCII-Faceplate.gfx			Alternate
(raC-5_xx-xx) raC_Dvc_1769_HSC-Faceplate.gfx			N/A

1791ES Guard IO Safety Configuration

FactoryTalk View xx Faceplate	Input Data	Input Status	Output Data	Data Format
(raC-5_xx-xx) raC_Dvc_1791ES_IB16_Safety-Faceplate.gfx	Safety	Pt- Status	None	Integer
(raC-5_xx-xx) raC_Dvc_1791ES_IB16_SafetyTestOutput-Faceplate.gfx		Pt-Staus-Muting -Test output	Test	
(raC-5_xx-xx) raC_Dvc_1791ES_IB8XOBV4_Safety-Faceplate.gfx		Pt-Staus-Muting	Safety	
(raC-5_xx-xx) raC_Dvc_1791ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx	Safety Readback	Pt-Staus-Muting -Test output	Combined	

1794 Flex IO Configuration

FactoryTalk View xx Faceplate	Connection	Data Format	Mode
(raC-5_xx-xx) raC_Dvc_1794_IE12-Faceplate.gfx	Data	Analog Data	N/A
(raC-5_xx-xx) raC_Dvc_1794_IE4XOE2-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IE8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IE8XOE4-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IF2XOF2I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IF4I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IF4ICF-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IF8IH-Faceplate.gfx		Analog Data and Hart PV	
(raC-5_xx-xx) raC_Dvc_1794_IF8IHNF-Faceplate.gfx		N/A	Input Data and HART PV
(raC-5_xx-xx) raC_Dvc_1794_IR8-Faceplate.gfx		Analog Data	N/A
(raC-5_xx-xx) raC_Dvc_1794_IRT8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IT8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OE12-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OE4-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OF4I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OF8IH-Faceplate.gfx		N/A	Input Data and HART PV
(raC-5_xx-xx) raC_Dvc_1794sc_IF8IU-Faceplate.gfx	Data Rack Optimization		Data-INT
(raC-5_xx-xx) raC_Dvc_1794sc_IRT8I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IA16-Faceplate.gfx			N/A
(raC-5_xx-xx) raC_Dvc_1794_IA8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IA8I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IB10XOB6-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IB16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IB16D-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IB16XOB16P-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IB32-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IB8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IC16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IG16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IH16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IM16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IM8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IV16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_IV32-Faceplate.gfx	Data		
(raC-5_xx-xx) raC_Dvc_1794_OA16-Faceplate.gfx	Output Data Rack Optimization		
(raC-5_xx-xx) raC_Dvc_1794_OA8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OA8I-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OB16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OB16D-Faceplate.gfx	Output Data		
(raC-5_xx-xx) raC_Dvc_1794_OB16P-Faceplate.gfx	Output Data Rack Optimization		
(raC-5_xx-xx) raC_Dvc_1794_OB32P-Faceplate.gfx	Output Data		

FactoryTalk View xx Faceplate	Connection	Data Format	Mode
(raC-5_xx-xx) raC_Dvc_1794_OB8-Faceplate.gfx	Output Data Rack Optimization	N/A	N/A
(raC-5_xx-xx) raC_Dvc_1794_OB8EP-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OC16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OG16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OM16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OM8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OV16-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OV16P-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OV32-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_1794_OW8-Faceplate.gfx	Output Data		
(raC-5_xx-xx) raC_Dvc_1794_VHSC-Faceplate.gfx	Data		

5015 FLEXHA 5000 IO Configuration

FactoryTalk View xx Faceplate	Input / Output Data	Output Data
(raC-5_xx-xx) raC_Dvc_5015_U8IHFTXT_Simplex-Faceplate.gfx	Simplex	Analog Input (Required when connecting HART device as input)
(raC-5_xx-xx) raC_Dvc_5015_U8IHFTXT_Duplex-Faceplate.gfx	Duplex	2. Analog Output (Required when connecting HART device as output)

5069 Compact 5000 IO Configuration

FactoryTalk View xx Faceplate	Connection	Input data/ Output Data	Counters	Channel 0/1
(raC-5_xx-xx) raC_Dvc_5069_IF8-Faceplate.gfx	Data	Analog Data	N/A	N/A
(raC-5_xx-xx) raC_Dvc_5069_IY4-IR-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OF4-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OF8-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_IA16-Faceplate.gfx		N/A		
(raC-5_xx-xx) raC_Dvc_5069_IB16-Faceplate.gfx		Data	None	
(raC-5_xx-xx) raC_Dvc_5069_IB16F-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_IB6F_3W-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OA16-Faceplate.gfx		N/A	N/A	
(raC-5_xx-xx) raC_Dvc_5069_OB16-Faceplate.gfx		Data		
(raC-5_xx-xx) raC_Dvc_5069_OB16F-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OB8-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OW16-Faceplate.gfx		N/A		
(raC-5_xx-xx) raC_Dvc_5069_OW4I-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OX4I-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_HSC2XOB4-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx				Generic ASCII
(raC-5_xx-xx) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx				Modbus Master
(raC-5_xx-xx) raC_Dvc_50x_SERIAL_MBSlave-Faceplate.gfx				Modbus Slave
(raC-5_xx-xx) raC_Dvc_5069_IF4IH_HART-Faceplate.gfx		Analog	N/A	N/A
(raC-5_xx-xx) raC_Dvc_5069_IF4IH_PlantPAx-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OF4IH_HART-Faceplate.gfx				
(raC-5_xx-xx) raC_Dvc_5069_OF4IH_PlantPAx-Faceplate.gfx				

5069 Compact 5000 IO Safety Configuration

FactoryTalk View xx Faceplate	Input / Output Data	Muting Lamp Points	Output Mode
(raC-5_xx-xx) raC_Dvc_5069_IB8S_Safety-Faceplate.gfx	Safety Data	None	N/A
(raC-5_xx-xx) raC_Dvc_5069_IB8S_SafetyMuting-Faceplate.gfx		Point 02 and 03	
(raC-5_xx-xx) raC_Dvc_5069_OBV8S_SafetyBipolar-Faceplate.gfx		N/A	Bipolar
(raC-5_xx-xx) raC_Dvc_5069_OBV8S_SafetySourcing-Faceplate.gfx			Sourcing

5094 Flex 5000 IO Configuration

FactoryTalk View xx Faceplate	Connection	Input / Output Data	Counters
(raC-5_xx-xx) raC_Dvc_5094_IF8-Faceplate.gfx	Data	Analog Data	N/A
(raC-5_xx-xx) raC_Dvc_5094_IF8IH_HART-Faceplate.gfx		Analog	
(raC-5_xx-xx) raC_Dvc_5094_IF8IH_PlantPAx-Faceplate.gfx		Analog	
(raC-5_xx-xx) raC_Dvc_5094_IY8_IR-Faceplate.gfx		Analog Data	
(raC-5_xx-xx) raC_Dvc_5094_IY8_IT-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_OF8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_OF8IH_HART-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_OF8IH_PlantPAx-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_IA16-Faceplate.gfx		N/A	
(raC-5_xx-xx) raC_Dvc_5094_IB16-Faceplate.gfx		Data	None
(raC-5_xx-xx) raC_Dvc_5094_IB32-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_IM8-Faceplate.gfx		N/A	N/A
(raC-5_xx-xx) raC_Dvc_5094_OA16-Faceplate.gfx		Data	
(raC-5_xx-xx) raC_Dvc_5094_OB32-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_OB8-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_HSC-Faceplate.gfx		N/A	
(raC-5_xx-xx) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_50x_SERIAL_MBSlave-Faceplate.gfx			
(raC-5_xx-xx) raC_Dvc_5094_IJ2I-Faceplate.gfx			

5094 Flex 5000 IO Safety Configuration

FactoryTalk View xx Faceplate	Input / Output Data	Configured by
(raC-5_xx-xx) raC_Dvc_5094_IB16S_Safety-Faceplate.gfx	Safety Data	This Controller
(raC-5_xx-xx) raC_Dvc_5094_OB16S_Safety-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_5094_OW4IS_Safety-Faceplate.gfx		
(raC-5_xx-xx) raC_Dvc_5094_IJ2IS-Faceplate.gfx		

5032 Armor Block 5000 IO Configuration

FactoryTalk View xx Faceplate	Connection	Timestamp	Points
(raC-5_xx-xx) raC_Dvc_5032_CFGB16M12xxxxxx_IN_16Pt-Faceplate.gfx	Data	None/ Per Point/ FIFO	16
	Listen Only Data		
	Data and Ethernet Status		
	Data with Events	None/ Per Point	
	Listen Only Data with Events		
	Data with Events and Ethernet Status		
(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_IN_8Pt-Faceplate.gfx	Data	None/ Per Point/ FIFO	8
	Listen Only Data		
	Data and Ethernet Status		
	Data with Events	None/ Per Point	
	Listen Only Data with Events		
	Data with Events and Ethernet Status		
(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_16Pt-Faceplate.gfx	Data	None/ Per Point/ FIFO	16
	Listen Only Data		
	Data and Ethernet Status		
	Data with Events	None/ Per Point	
	Listen Only Data with Events		
	Data with Events and Ethernet Status		
	Scheduled Output		
	Scheduled Output and Status		
(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_8Pt-Faceplate.gfx	Data	None/ Per Point/ FIFO	8
	Listen Only Data		
	Data and Ethernet Status		
	Data with Events	None/ Per Point	
	Listen Only Data with Events		
	Data with Events and Ethernet Status		

Library Upgrades

Add-On Instruction Upgrades

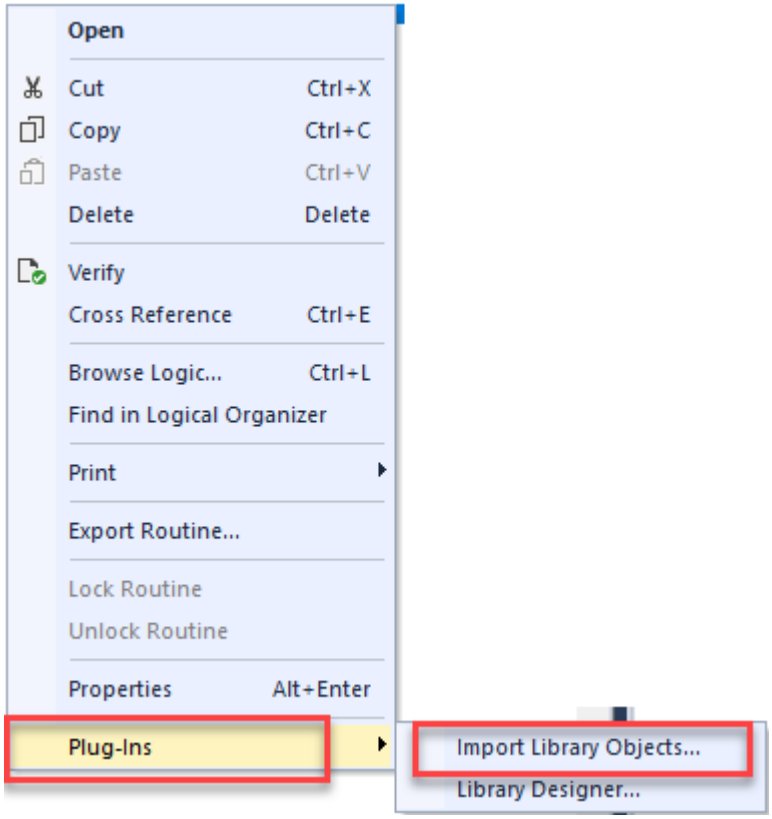
There are two methods to upgrading existing device object add-on instructions in a project. You can do this either by using the Studio 5000 Plug-In *Import Library Objects* Wizard or by importing individual add-on instruction AOI.L5X files. Both methods are described in the following sections.

Note that all updates to Add-On Instructions must be done with Studio 5000 Logix Designer in OFFLINE mode and a download to the controller is required.

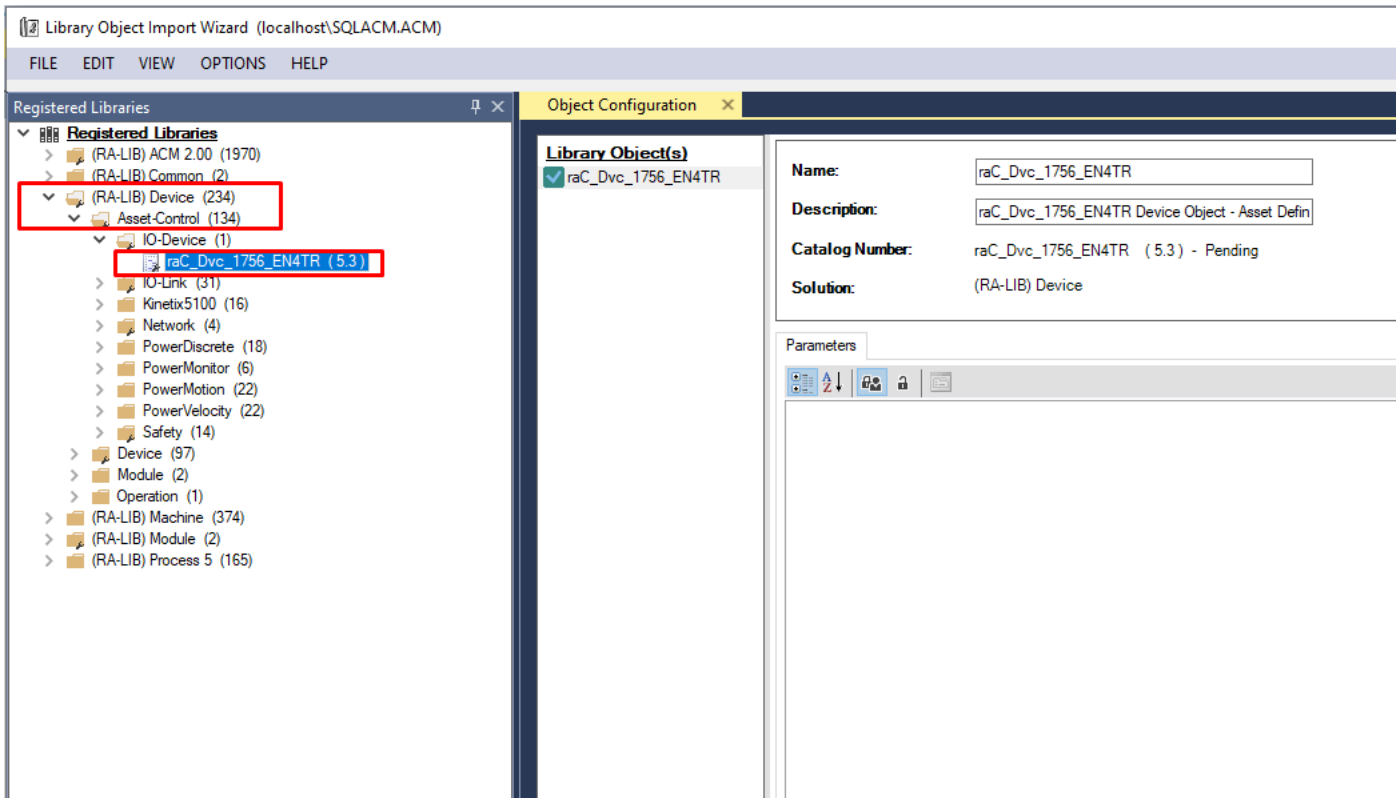
Upgrades Using Studio 5000 Plug-In to Import Library Objects

If Studio 5000 Application Code Manager is installed, you can use the Studio 5000 Plug-In *Import Library Objects* Wizard to update existing Add-On Instructions. For complete information on Studio 5000 Application Code Manager, refer to the section Using Application Code Manager.

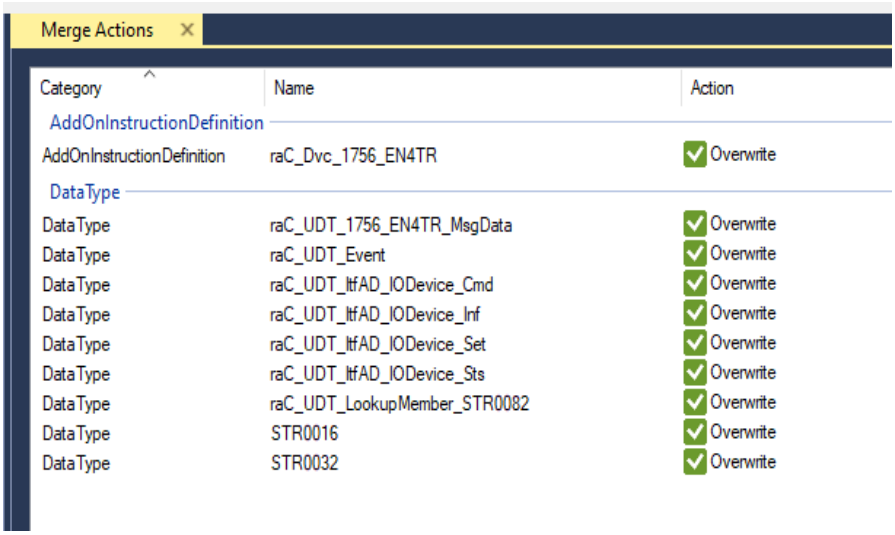
Right-click in your controller organizer or within a routine to access *Plug-Ins > Import Library Objects.*



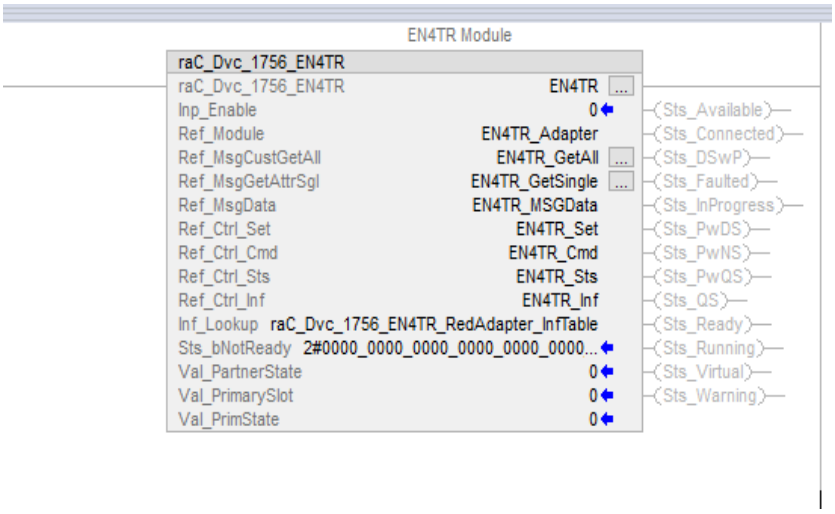
The *Library Object Import Wizard* dialogue window will open. Under *Registered Libraries* expend *(RA-LIB) Device > Asset-Control* and find the desired object and version. Drag the object into the *Object Configuration* window on the right.



In the *Merge Actions* window, select the *Action* for the *AddOnIntructionDefinition* to *Overwrite*. This will update any existing instance of the object to the newer version. You may also choose to overwrite any other Data Types or Tags. Review the release notes of the latest library release to understand what may be impacted. Click next and finish to complete the process.



- After Importing the AOI. Make sure the controller is error-free and

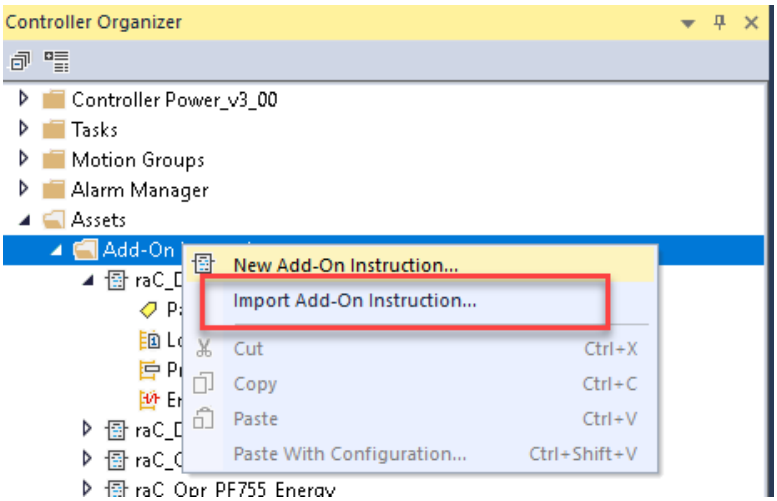


download it to the controller.

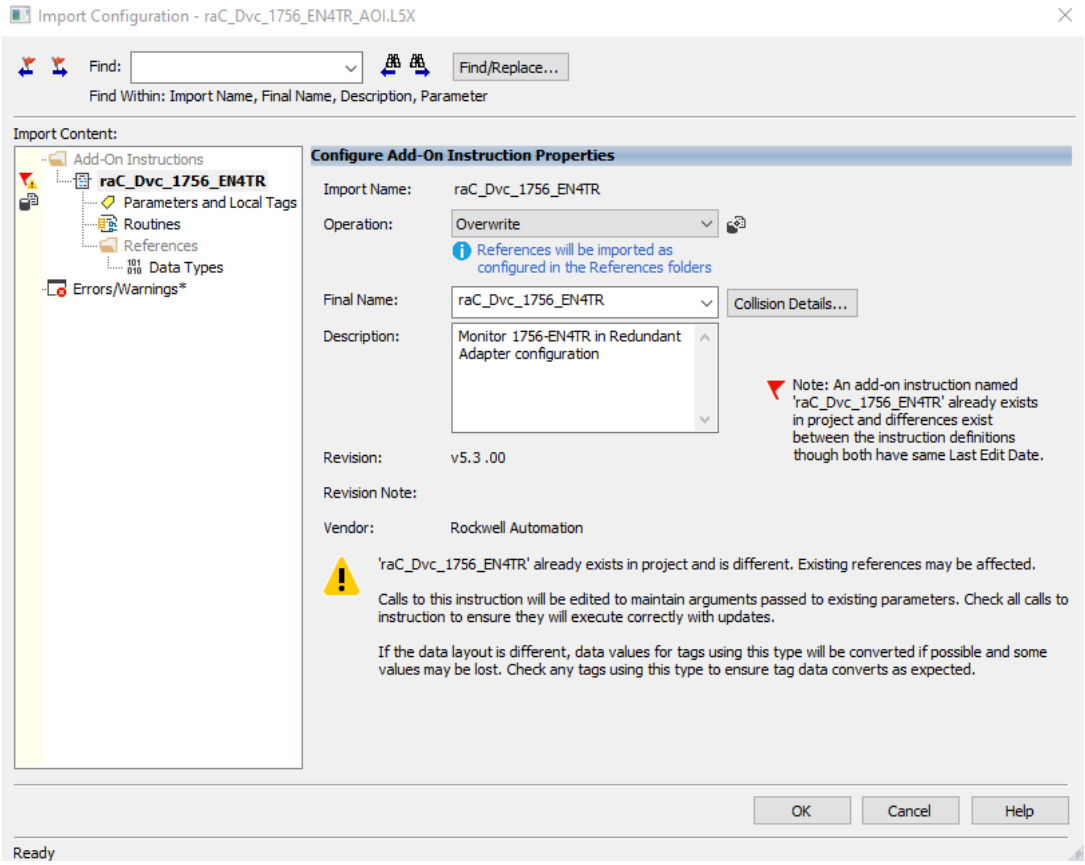
Upgrades by Importing AOI.L5X Files

To upgrade or migrate a project that uses a previous library version to a newer one, the add-on instruction L5X files are supplied. To perform an upgrade to an object perform the following steps:

- Open the controller file. Note changes must be done offline.
- In the *Controller Organizer* pane right-click on *Assets > Add-On Instructions* and select *Import Add-On Instruction.* Navigate to the AOI.L5X file in the *Studio 5000 Logix Designer Files - L5X* and Open.



- You will be prompted that there is an existing version of the instruction that is different. Choose *Overwrite* as the operation and select OK once you have read and understood the warnings. Your existing logic will be updated with the new add-on instruction. Verify that your code compiles and test adequately.



After Importing the AOI. The AOI references in the routine are affected and need to reconfigure it.

FactoryTalk® View Upgrades

To upgrade a device object in a FactoryTalk® View ME/SE application, simply import the new faceplate.gfx display file into the application. If any global objects or images have been added or modified, you may need to import these as well. Any unused displays from previous versions may be removed or deleted from the application.

Studio 5000 View Designer® Upgrades

To upgrade a device object in a Studio 5000 View Designer® application, simply import the open the new View Designer.vpd file and copy the raC_Dvc_xxxxx_wDesc_FP pop-up screen into the existing application. Find any graphic symbol launch buttons in the application that open the faceplate, and update the Action to open the new pop-up screen. Any unused pop-up screens from previous versions may be removed or deleted from the application.

Using Application Code Manager

Overview of Application Code Manager

Studio 5000® Application Code Manager is a tool that enables more efficient project development with libraries of reusable code. Application Code Manager creates modular objects with customizable configuration parameters using the reusable content. Application Code Manager can also create the associated visualization, historical and alarming elements for a project.

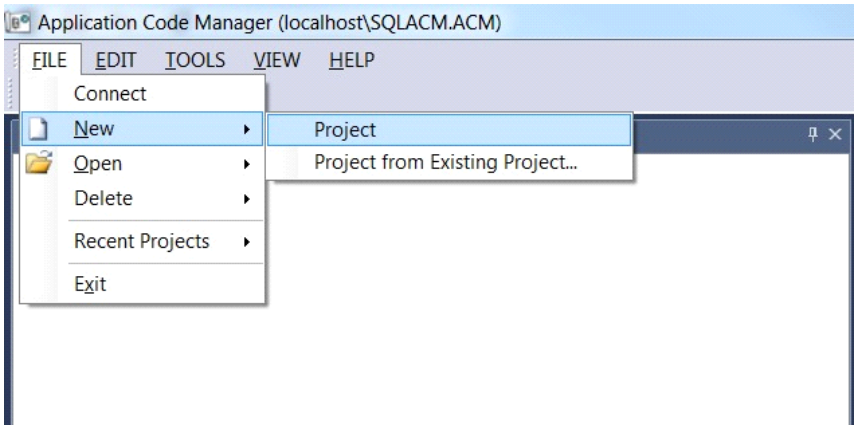
Studio 5000® Application Code Manager can be easily used along with Rockwell Automation® application code libraries such as the PlantPAx® Process Objects Library, Machine Builder Library, and Device Object Libraries. For more information on Studio 5000® Application Code Manager, refer to the Application Code Manager User Manual.

Creating a New Project

Begin by opening Application Code Manager.

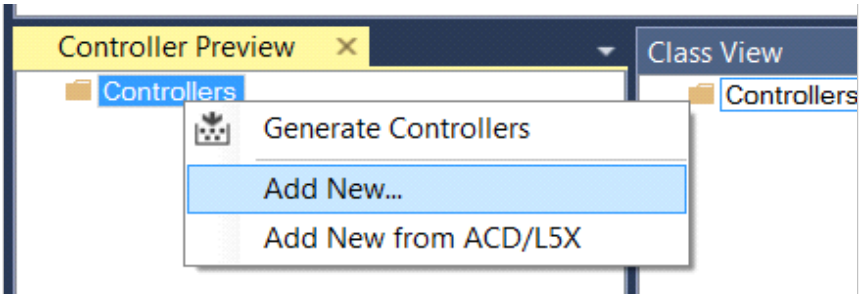
Note: the last project (if any) is opened by default; otherwise a blank screen is displayed.

Create a New Project or open an existing project. Navigate to *File > New > Project*.



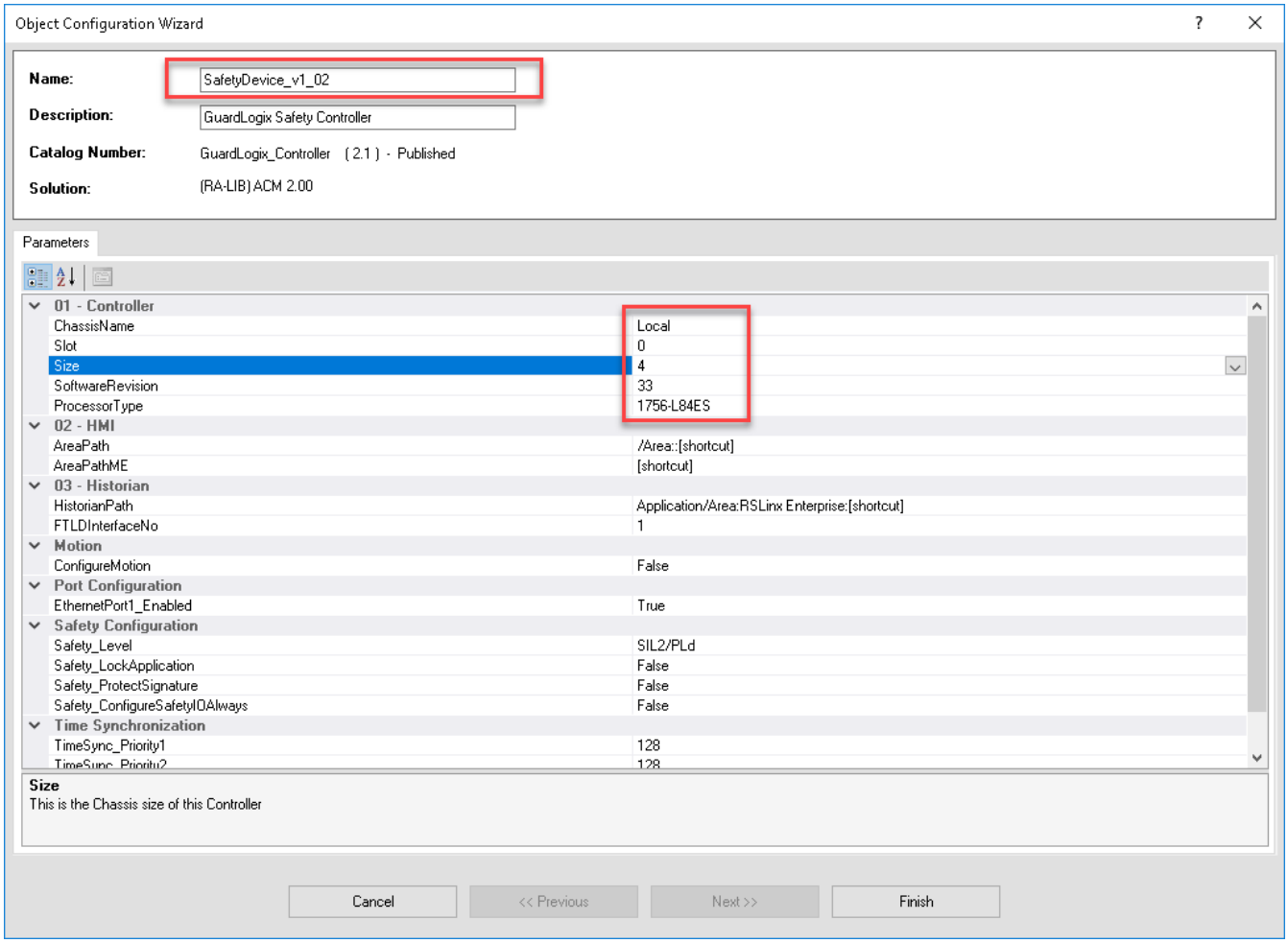
Select the desired project type (e.g. (*RA-LIB*) *ACM 2.00 Project - Basic_Project*) and fill in the *Name* and *Description*.

To add a new controller to a project, in the *Controller Preview* window, right-click on *Controllers* and select *Add New...*

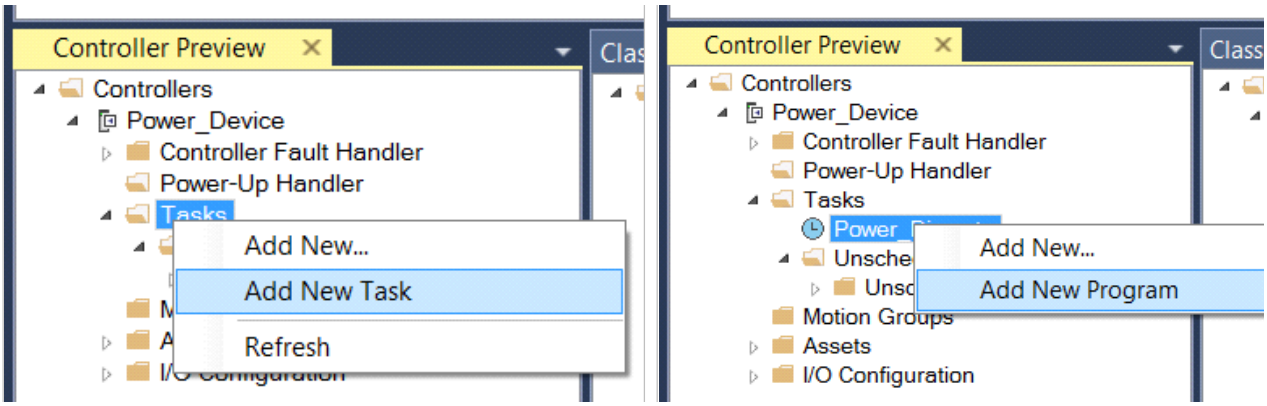


Select the desired controller type (e.g. *ControlLogix_Controller, GuardLogix_Controller, CompactLogix_Controller, etc*). Enter a *Name* and *Description* for the controller. Select the appropriate Chassis and Processor configurations.

You can also configure the HMI *AreaPath* and.or *AreaPathME* parameters which will be referenced if you use Application Code Manager to generate FactoryTalk® View ME/SE displays with graphic symbol launch buttons.



You can now add in any desired tasks and programs to your controller. Right-Click on the *Tasks* folder underneath your controller in the *Controller Preview* and *Add New Task*. Similarly, right-click on any Task and select *Add New Program*. Complete the desired parameters for Tasks and Programs such as name, type, period, etc.



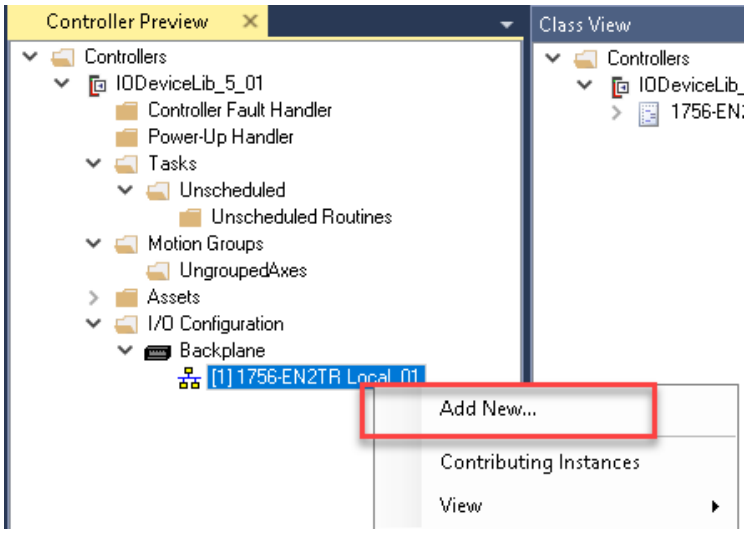
Adding & Configuring Device Objects

Prior to adding in any Device Objects, ensure you have registered the library in Application Code Manager. Refer to Registering Libraries in Studio 5000® Application Code Manager for details.

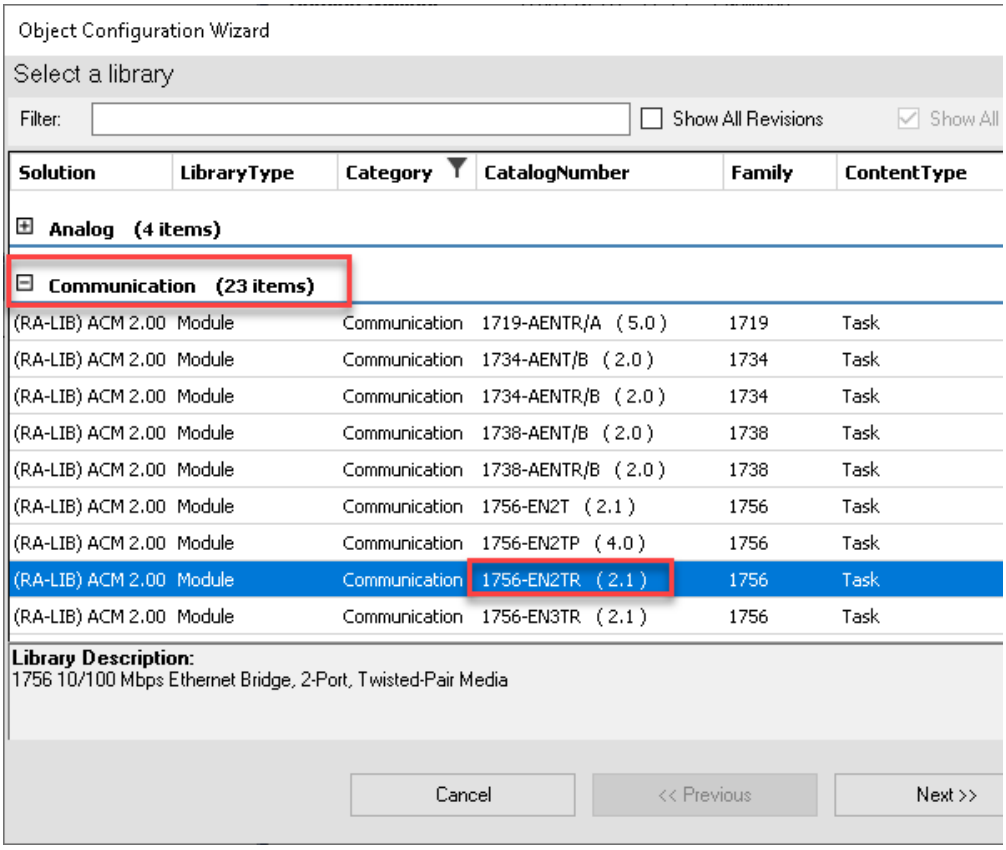
Adding Communication Modules

If not already done you may need to add Communication modules to your Controller I/O Configuration. This will allow you add additional I/O systems and modules.

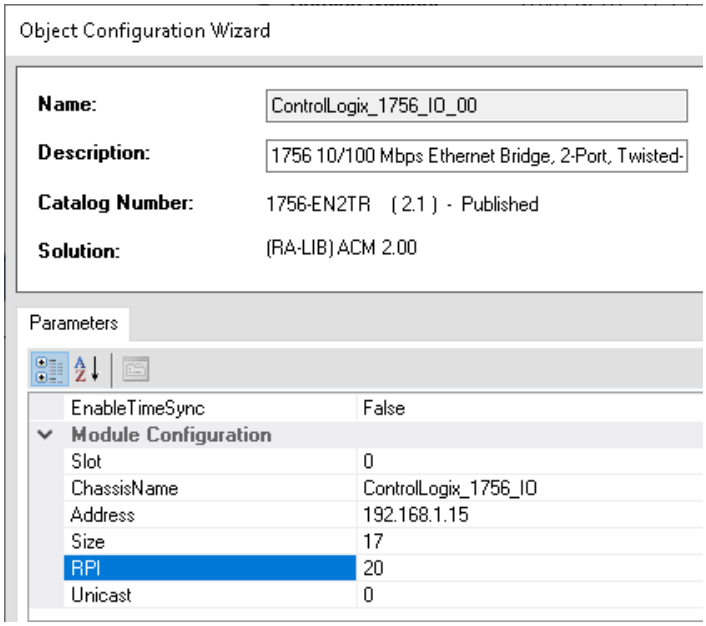
In the *Controller Preview* pane you find the *I/O Configuration* folder underneath your controller. Right-click the desired location such as the backplane or an existing Ethernet network and select *Add New*.



You may choose to click on the *Category* filter to easily sort and find *Communication* modules. Selected the desired Communication module and click *Next*.

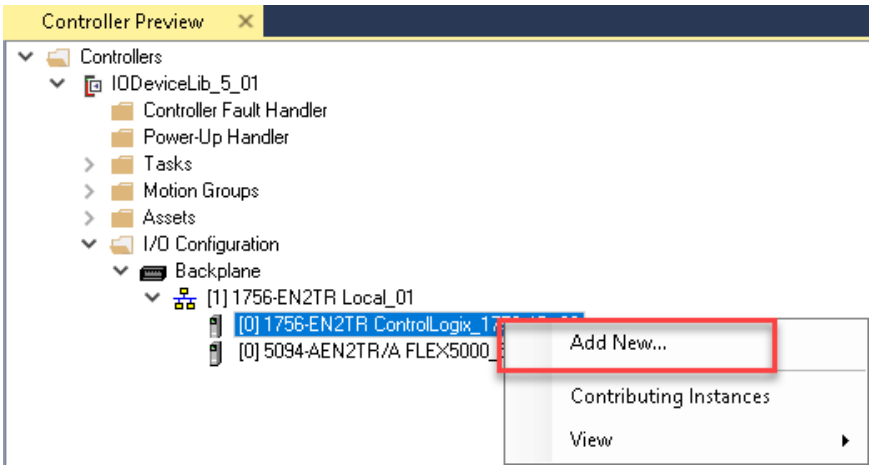


For new I/O chassis assign a unique *ChassisName*. You can also assign a unique IP *Address* and other parameters like *Size, RPI, Unnicast* and *EnableTimeSync*. Click *Finish* to complete.

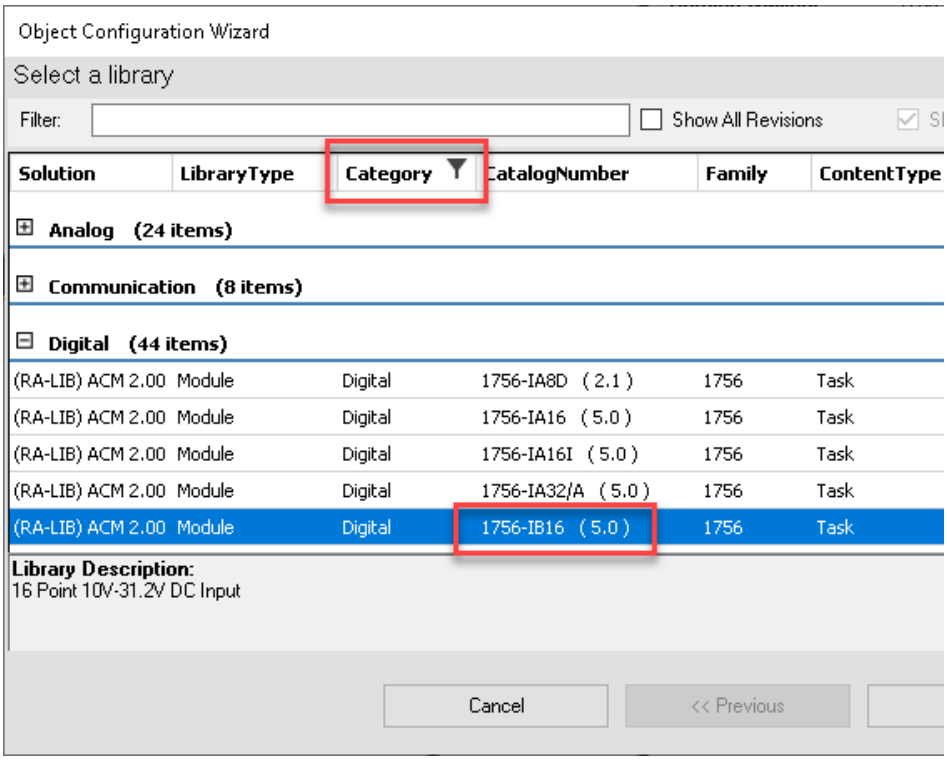


Adding I/O Modules

If an I/O chassis exists in a project then you can add I/O modules to that chassis. To add a new I/O module right-click on a chassis' communications adapter module and *Add New...*

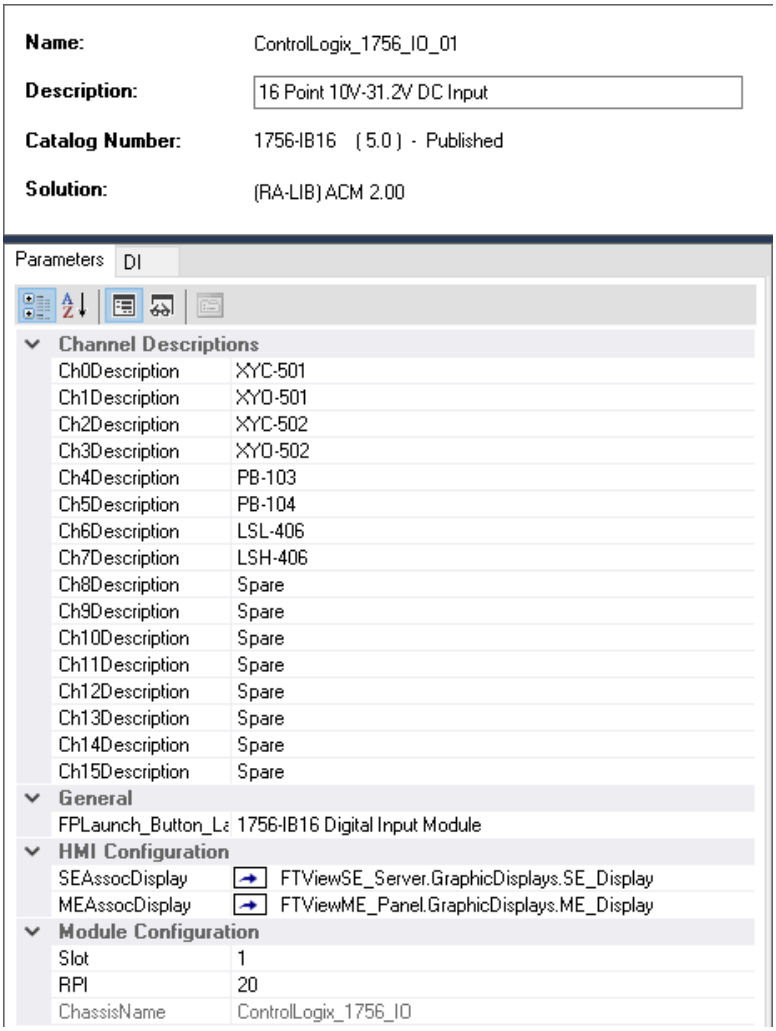


You may choose to click on the *Category* filter to easily sort and find *Analog* or *Digital* modules. Selected the desired I/O module and click *Next*



Configuration parameters may very slightly depending on the I/O module. Perform the following configuration:

- Assign **Channel Descriptions** to all channels. This will be entered in the I/O module tag's .@Description fields of the primary channel data tags. If using the HMI faceplates, it is recommended not to leave any descriptions blank since this will result in diagnostic events in FactoryTalk View.
- Assign the **FPLaunch_Button_Label** which set's the I/O module tag's .@Description extended tag property. This will be shown on the launch button if using the basic text launch buttons in FactoryTalk® View ME/SE.
- If using FactoryTalk® View ME/SE you may assign the **SEAssocDisplay** and/or **MEAssocDisplay** to create a launch button with pre-defined Global Object Parameters. For more information onHMI Configuration refer to Configuring Displays.
- Assign the desired module **Slot** and **RPI**.



- Note that there is nothing to complete on the DI/DO/AI/AO tab.
- Click Finish to complete the object configuration.

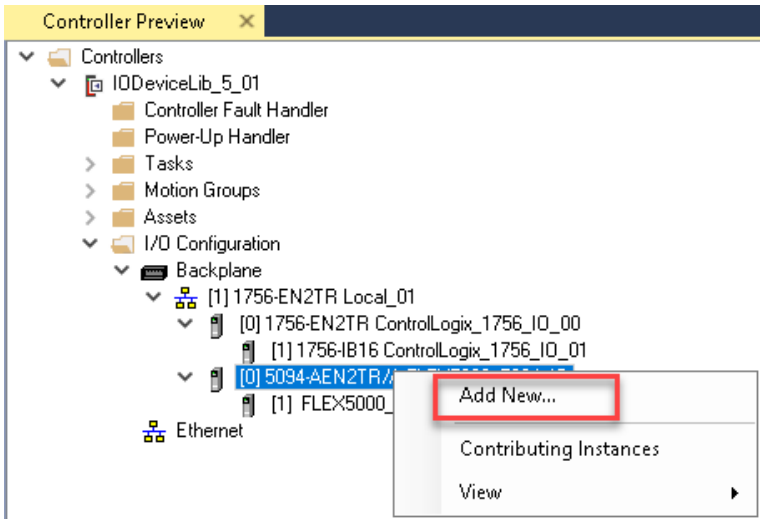
For specific devices details, refer to the appropriate chapter in this manual.

Adding HART Devices to 50xx HART Analog Module Channels

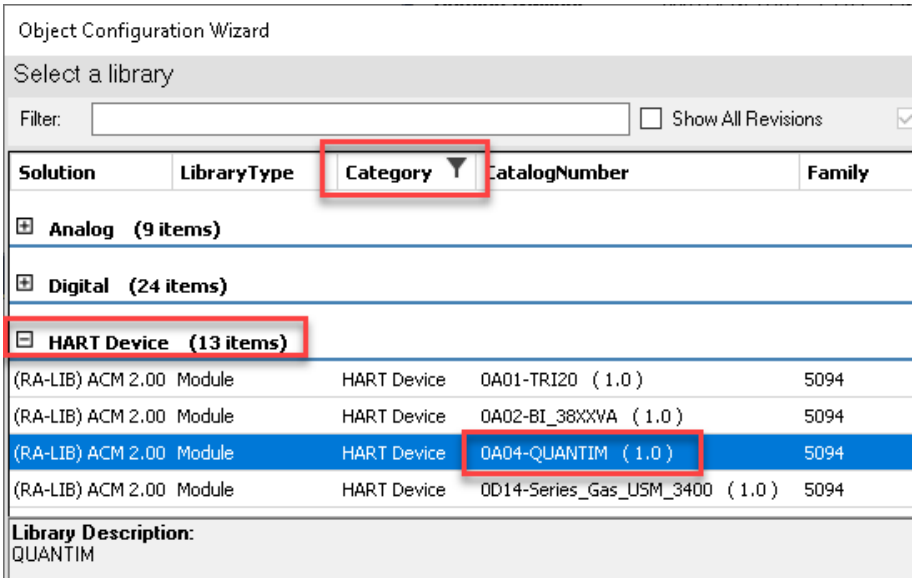
You can optionally add HART devices to compatible HART Analog I/O modules. At this time, compatible I/O modules include:

- 5094-IF8IH/XT
- 5094-OF8IH/XT
- 5015-U8IHFTXT
- 5069-IF4IH
- 5069-OF4IH

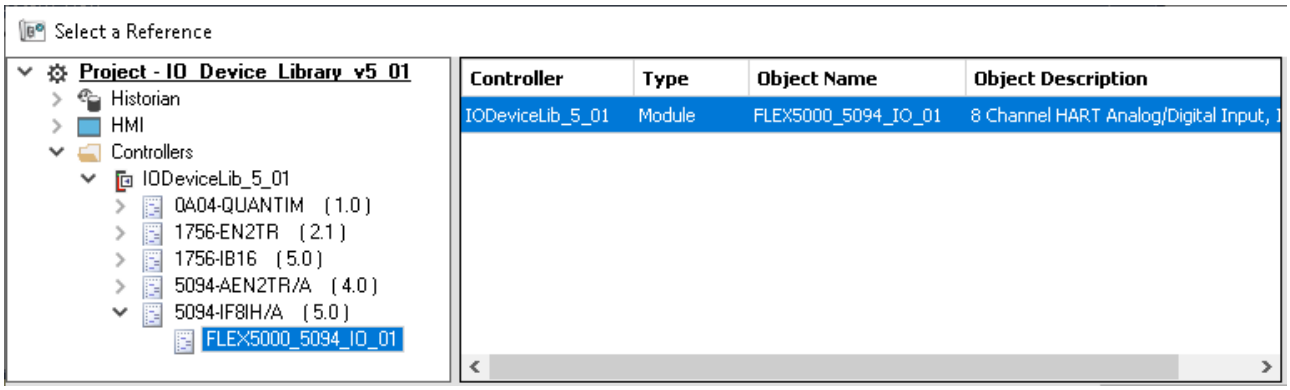
HART devices must be added to the communications adapter module in Application Code Manager. Right-click on the adapter and select *Add New...*



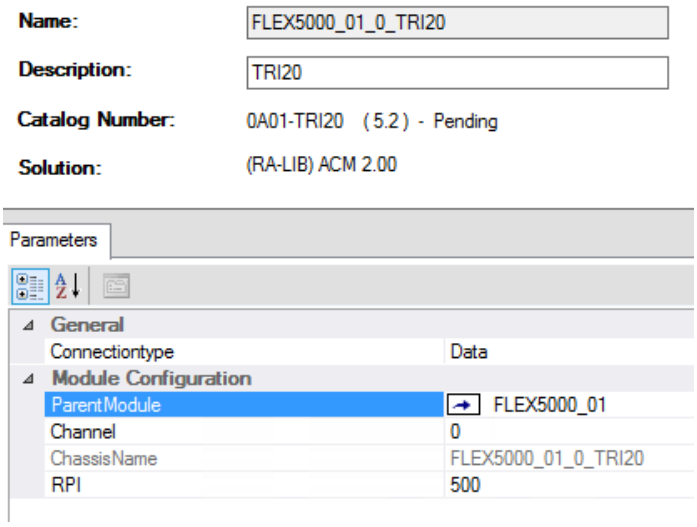
You may choose to click on the *Category* filter to easily sort and find *HART Device* modules. Selected the desired HART Device and click *Next*



In the *Object Configuration Wizard* of the HART Device you can assign the *ParentModule* to the Analog HART I/O module. Click '...' to Select a Reference from the project.



Complete the device configuration by assigning the I/O *Channel* and adjust the *RPI* as needed.



Using HART Devices with PlantPAx PAI Instruction

To use Analog HART Modules and HART Devices in PlantPAx DCS Applications you must configure the PAI instruction a specific way in Application Code Manager. There are two ways to use the PAI instruction with HART Devices:

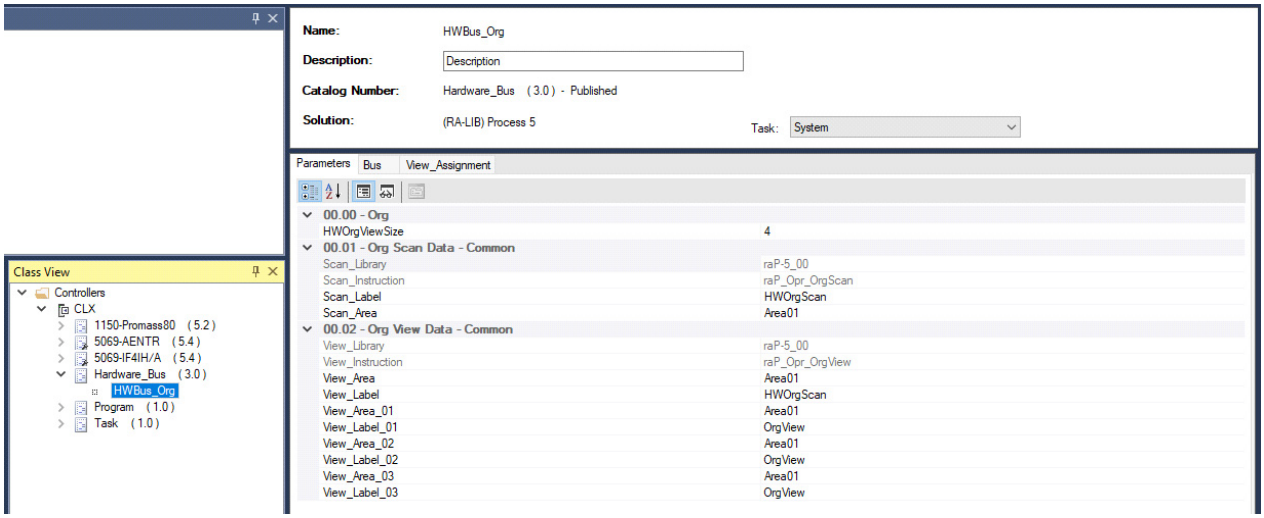
1. Analog HART Module with PV only from HART Device
2. Analog HART Module with PV/SV/TV/QV from HART Device

The two methods are as defined as follows.

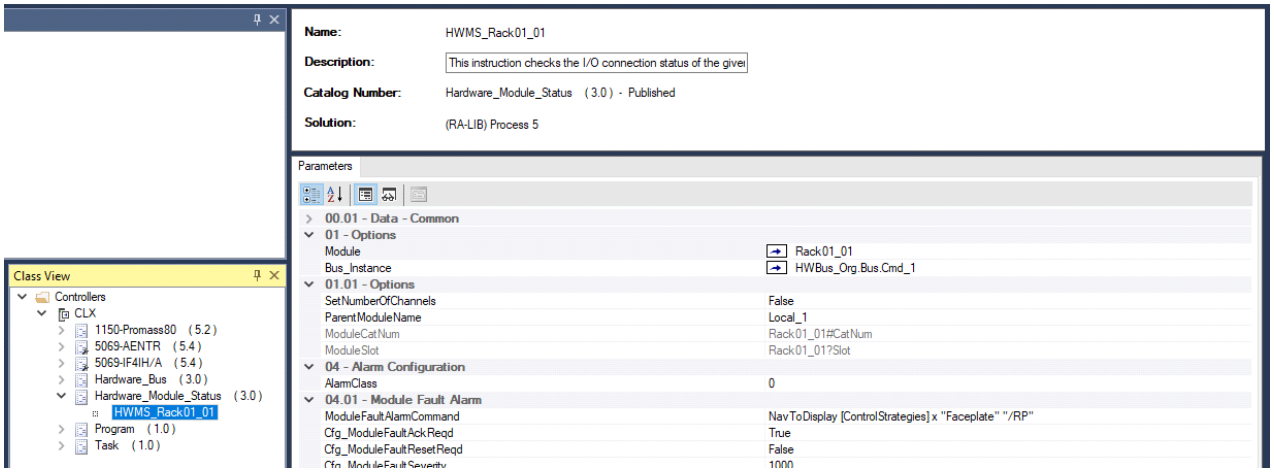
1. Analog HART Module with PV only from HART Device

Please note, the Connectiontype of Hart Device should be PlantPAx.

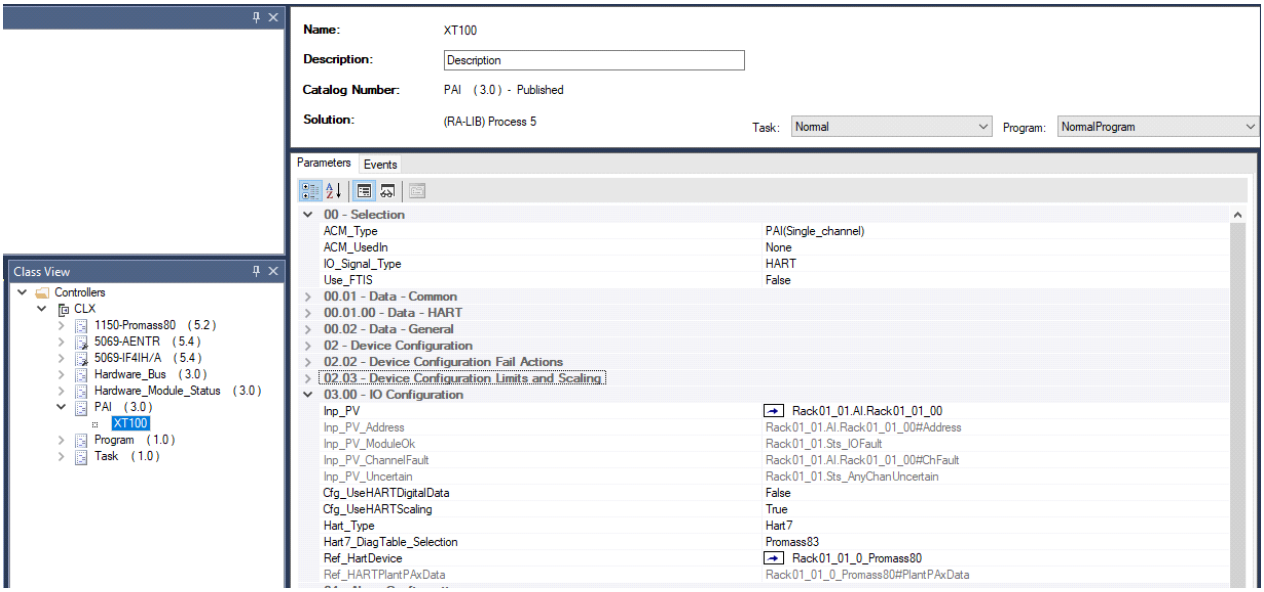
After adding AI module, from the Process Library > Organization > Bus folder, add a Hardware_Bus under System Task.



From the Process Library > Hardware Monitoring > Speciality folder, add Hardware_Module_Status and assign Module and Bus_Instance to it.

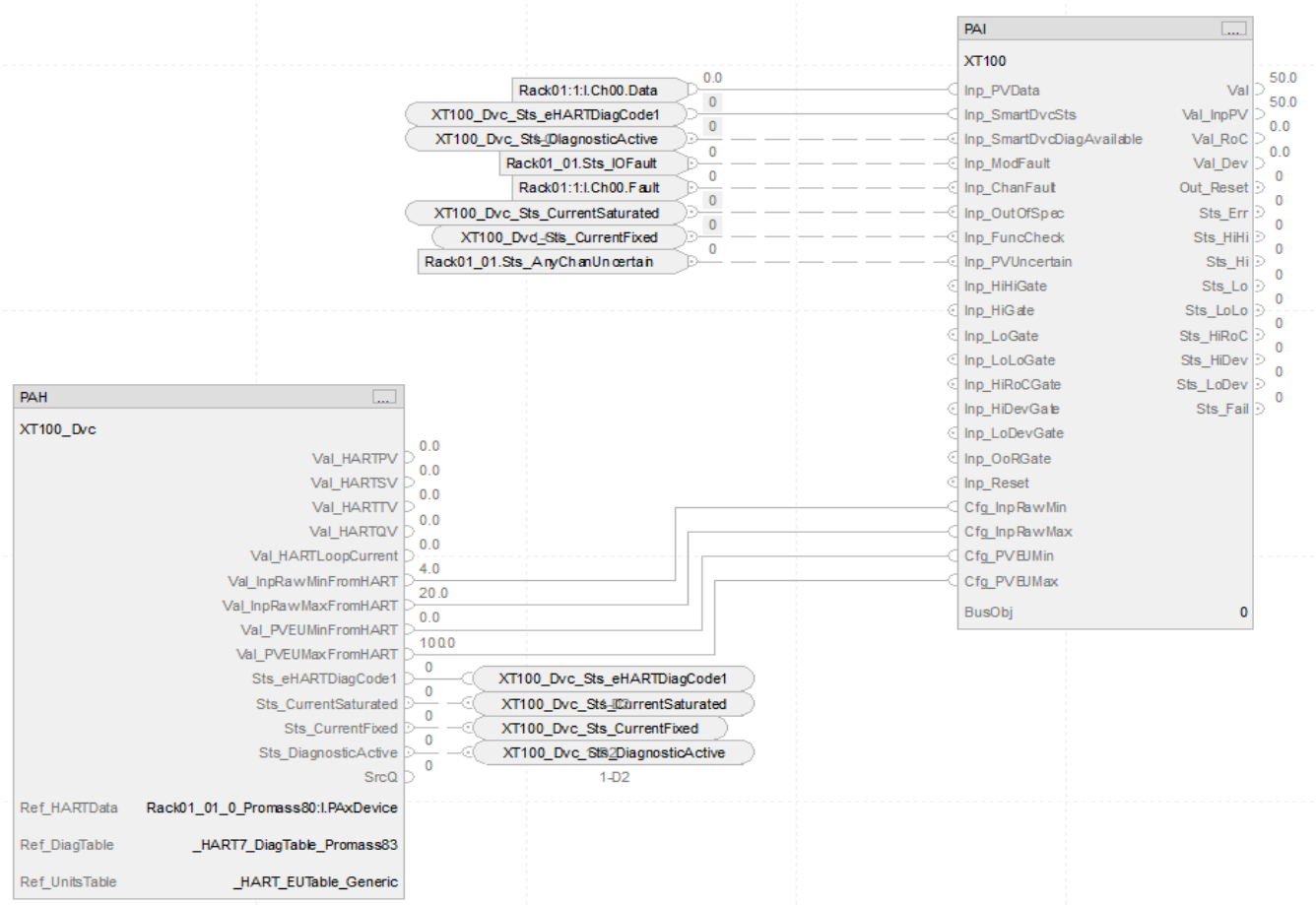


Then, From the Process library > Control Strategies > Input Processing folder, add a PAI instance for the analog input module and configure these parameters in the I/O Configuration section.



ACM Parameter	Usage
Task, Program	Assign a Task and Program for the PAI control strategy
IO_Signal_Type	Hart
Inp_PV	Connect to the channel of the IO module that the instrument is connected to.
Cfg_ UseHARTDigitalData	Not applicable, leave at default value
Cfg_UseHARTScaling	Set to True if you want to connect the scaling parameters from the PAH module
Hart_Type	Select the HART protocol revision (Generic, Hart, Hart5, Hart6 orHart7)
Hart7_DiagTable_Selection	Select the relevant Diag Table value for the instrument.
Ref_HartDevice	Connect to the instrument object in ACM

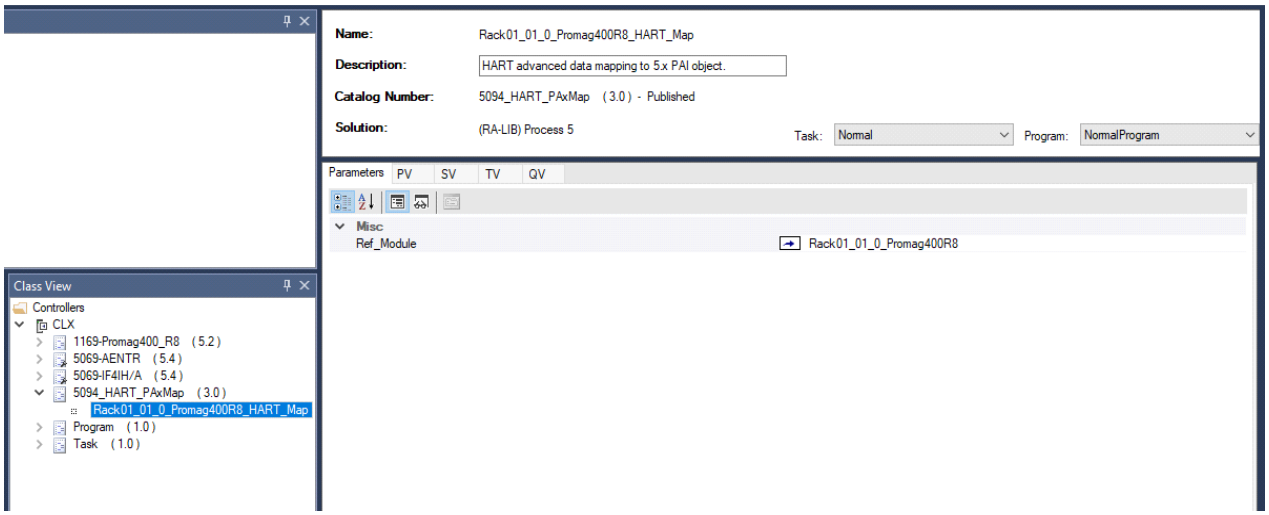
This generates the following Studio 5000 Logix Designer® code for a PlantPAx® project:



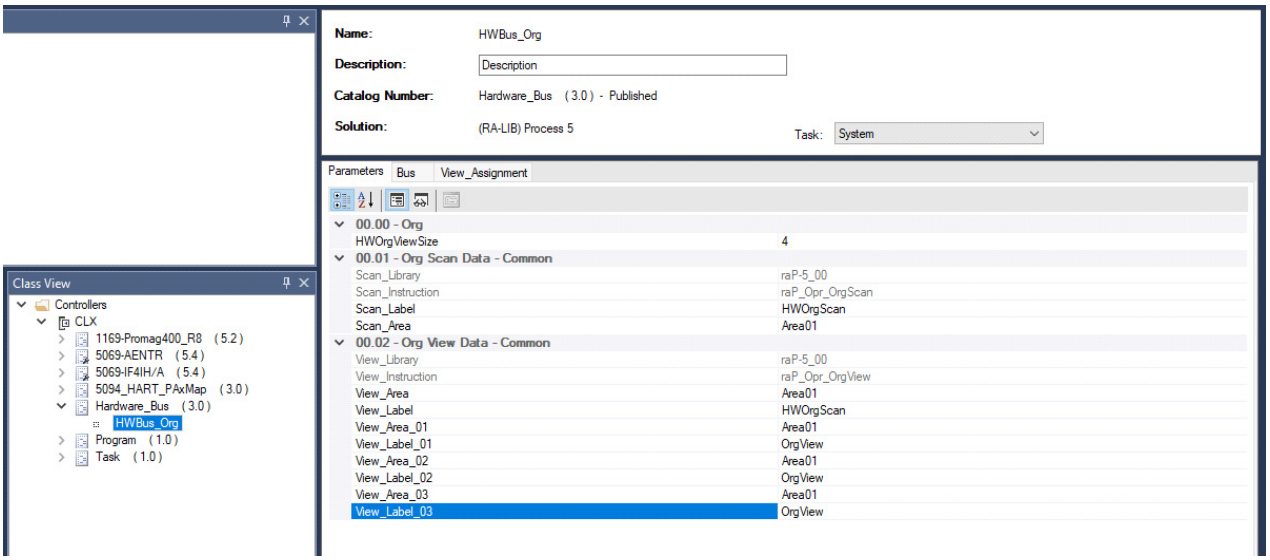
2. Analog HART Module with PV/SV/TV/FV from HART Device

Please note, the Connectiontype of Hart Device should be PlantPAx.

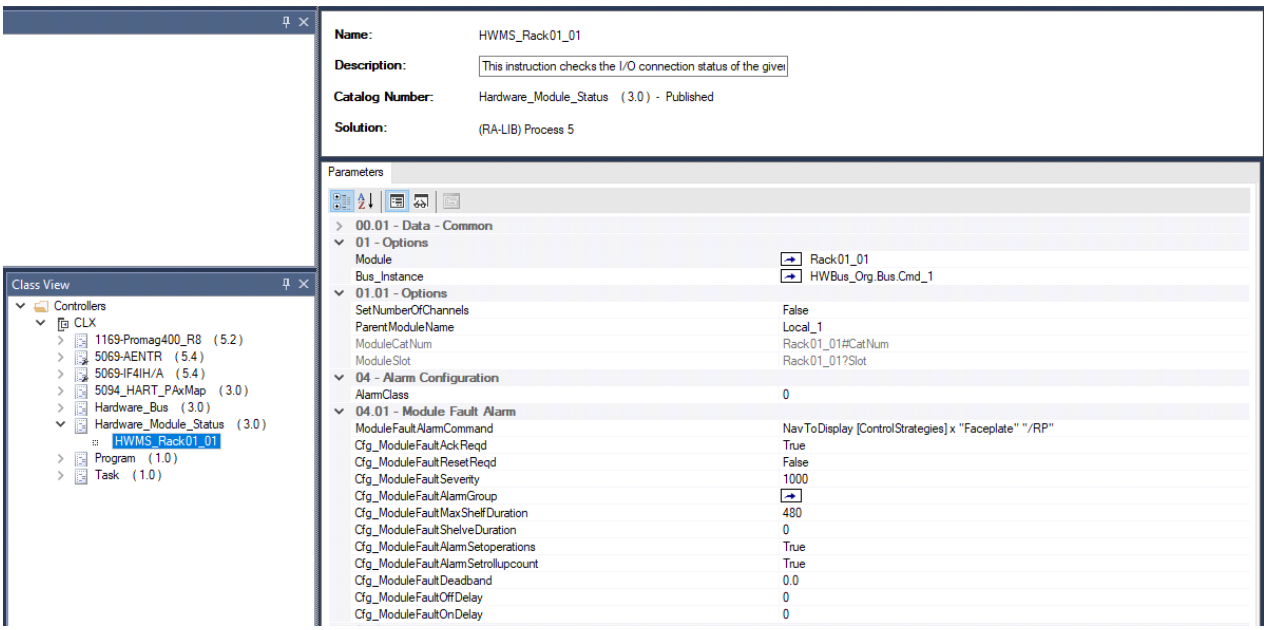
After adding AI module and Hart device, from the Process Library > HART IO Card Mapping, create an instance of the 5094_Hart_PAxMap and connect to the Hart instrument.



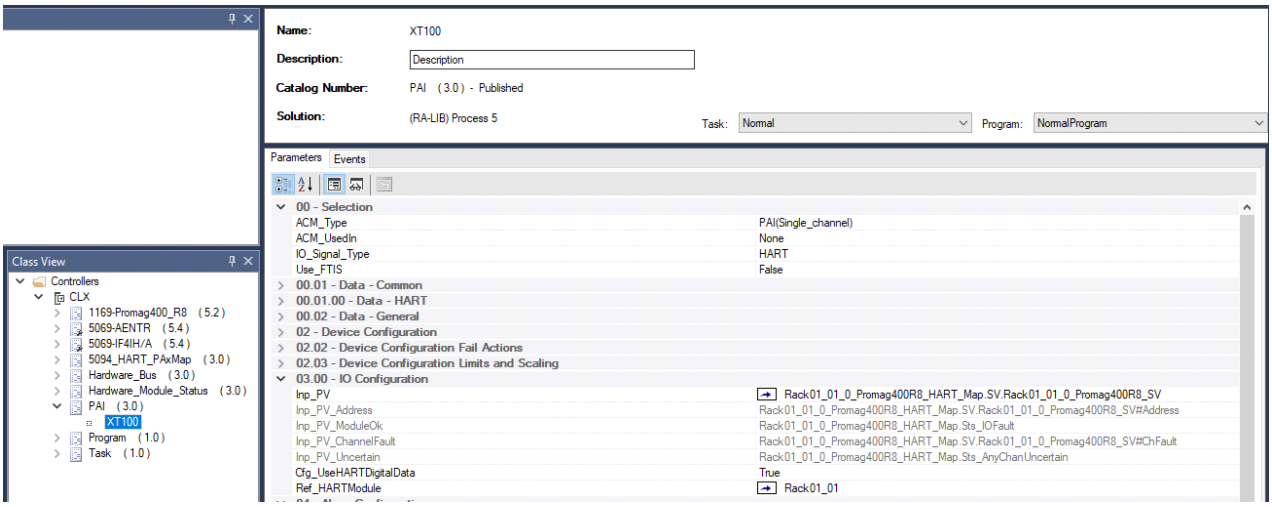
From the Process Library > Organization > Bus folder, add a Hardware_Bus under System Task.



From the Process Library > Hardware Monitoring > Speciality folder, add Hardware_Module_Status and assign Module and Bus_Instance to it.

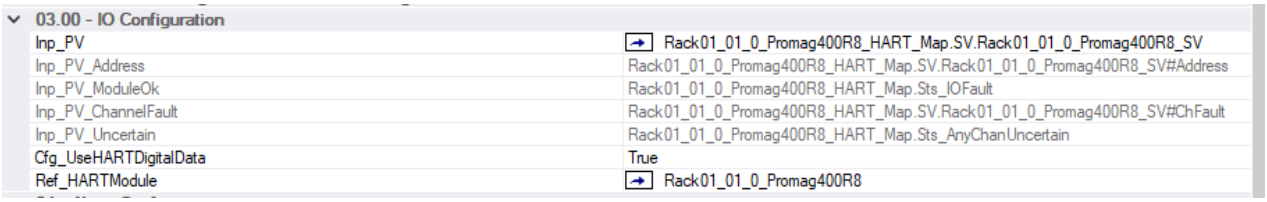


Then, From the Process library > Control Strategies > Input Processing folder, add a PAI instance for the analog input module and configure these parameters in the I/O Configuration section.

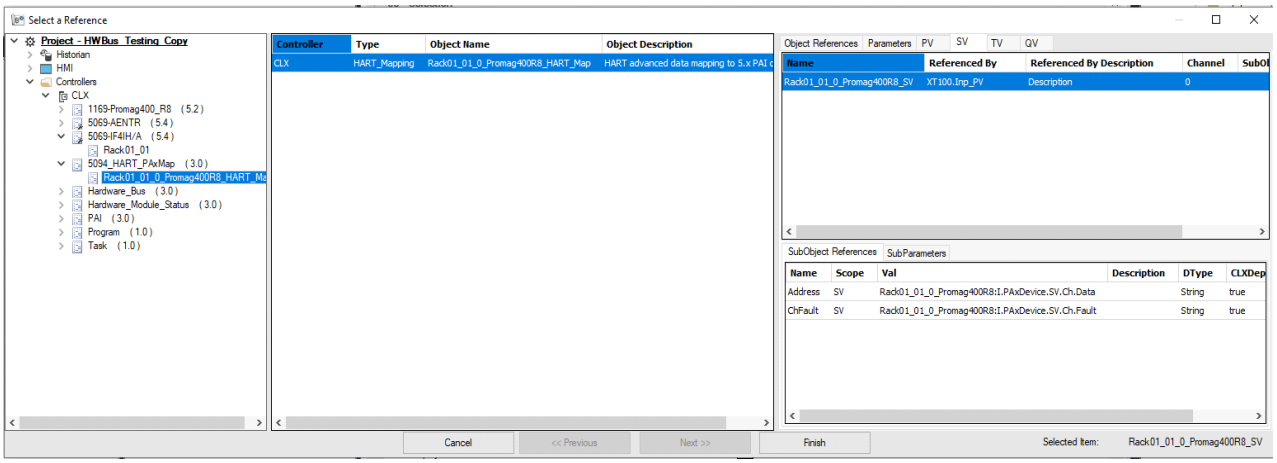


ACM Parameter	Usage
Task, Program	Assign a Task and Program for the PAI control strategy
IO_Signal_Type	Hart
Inp_PV	Set this reference to the PV, SV, TV or QV of the 5094_HART_MapIO object that was created for the HART device
Cfg_ UseHARTDigitalData	Set to True
Ref_HartModule	Set this reference to the 5094 module that the instrument is connected to

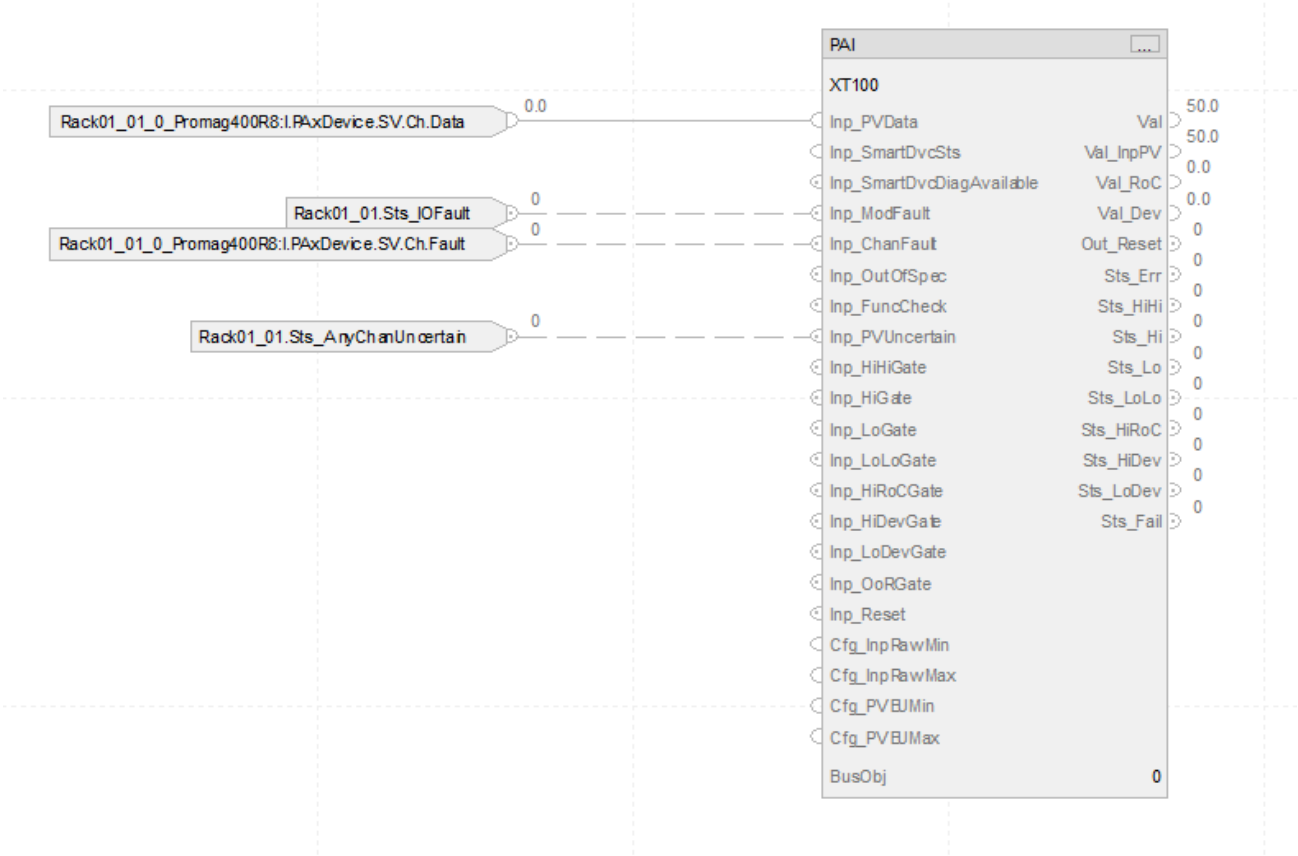
In this example the SV of the HART device is mapped:



To do so, you can browse to select a reference from the device as shown below:



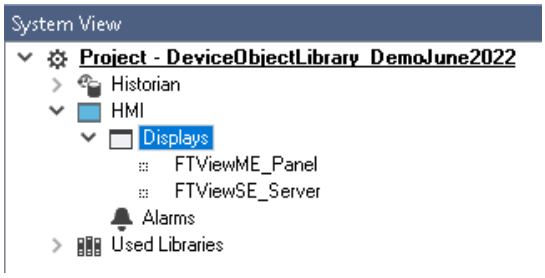
This generates the following Studio 5000 Logix Designer® code for a PlantPAx® project:

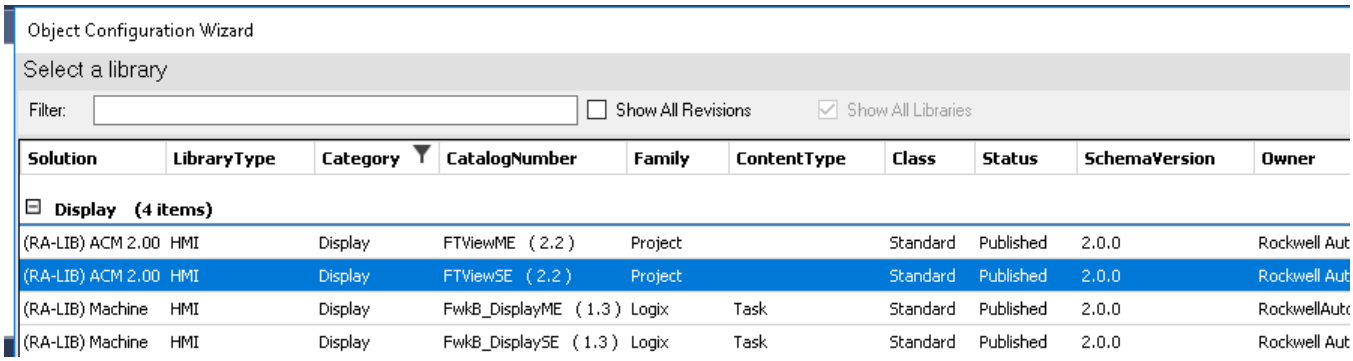


Configuring Displays

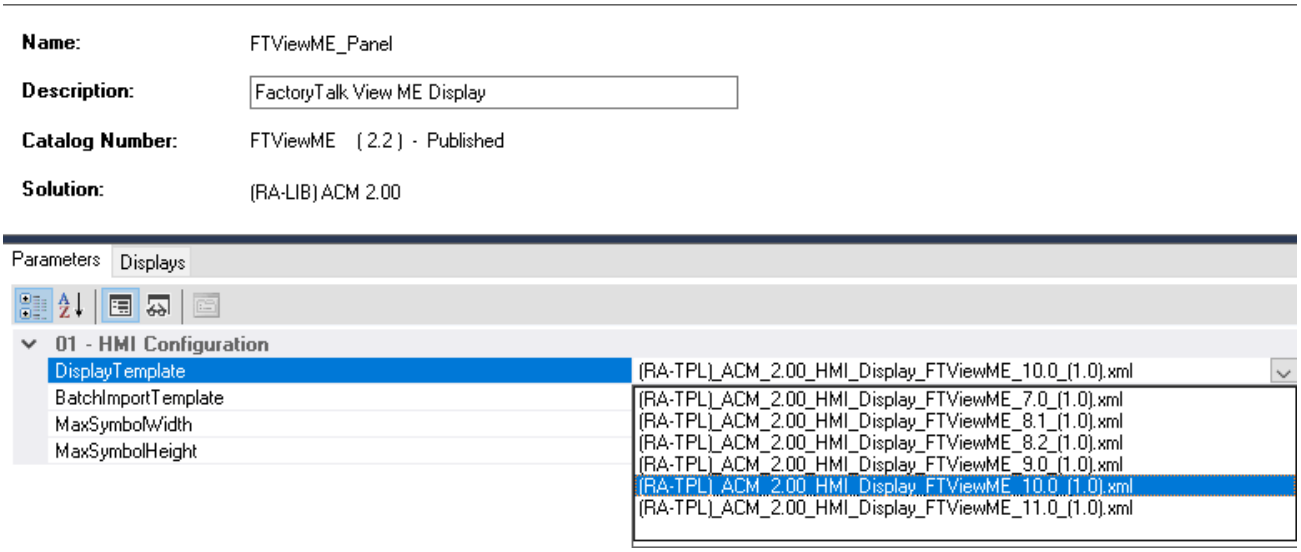
Application Code Manager can be used to automatically configure graphic symbol launch buttons for device objects In FactoryTalk® View ME or SE. Note that Application Code Manager is not compatible with Studio 5000 View Designer® applications.

First you must add Displays to your project. Under the *System View* panel expand *HMI* and right-click on *Displays* to select *Add*. Choose the type of display (e.g. *FTViewME* or *FTViewSE* depending on your project requirements.

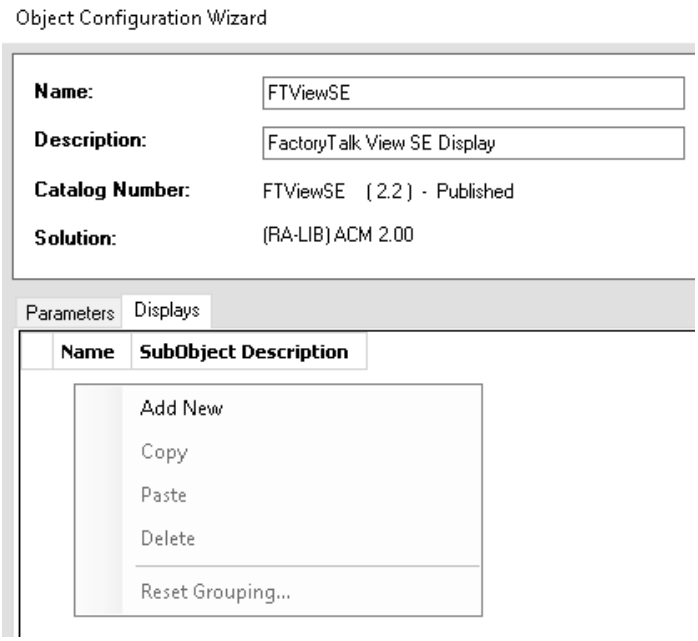




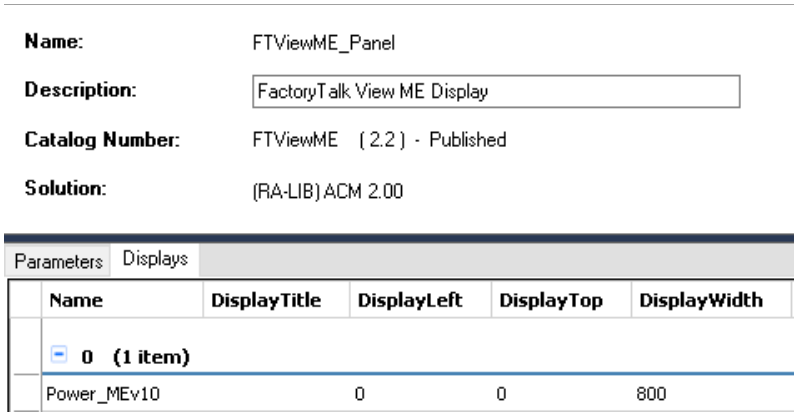
In the display object parameter configuration, you must select the *DisplayTemplate* type to match the version of FactoryTalk® View application that you are using.



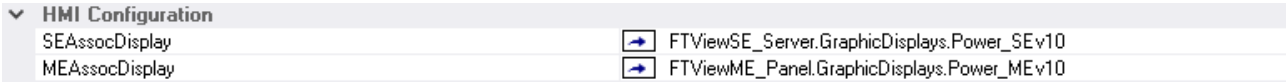
Navigate to the *Displays* tab where you can right-click and *Add New* display.

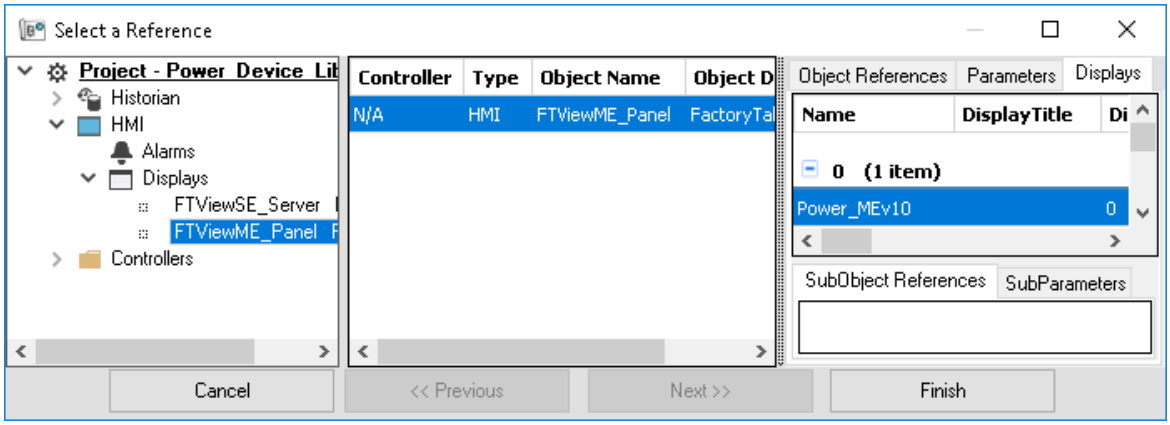


Set the desired name and display parameters. Generally all display parameters aside from *Name* can be left as default since this will often be used as a temporary display where object launch buttons are copied from.



Return to your device object configuration and view the *HMI Configuration* section of the parameters. You can browse or type in the HMI_Server_Name.HMI_Display_Name.



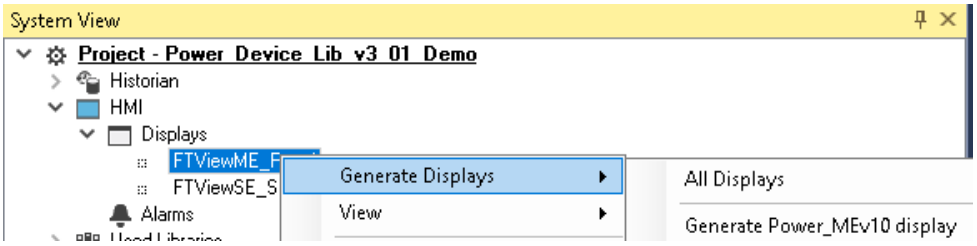


If you browse for the display, select the desired display server in the left panel, then click on the *Display* tab in the right panel and select the specific display. Click finish.

This workflow can be followed for either FactoryTalk® View ME or SE depending on the project requirements.

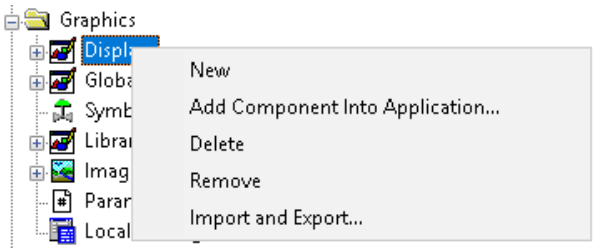
Generating Displays

Once you have assigned displays to all of the device objects, you can generate the displays. In the *System View* highlight the desired display server under *HMI > Display* and right-click to select *Generate Displays > All Displays* or select individual displays. Choose a place to save the generated files and take note of it.



Importing Displays into FactoryTalk® View Studio

To import the configured displays, open your FactoryTalk® View ME/SE project in FactoryTalk® View Studio. Right-click on *Graphic > Displays* and select *Import and Export...*



Follow the required prompts:

- Import graphic information into displays
- Choose whether or not to backup displays
- Choose either a *Single display import file* (must have an existing or blank display to import into) or *Multiple displays batch import file* if *All Displays* was used to Generate Displays.
- If this is the first time it is recommended to import *Multiple displays batch import file* and then *Create new objects on the display*.
- If you have done this before and are updating the imported display after modifying your Application Code Manager project, you can choose *Update existing objects on the display*.
- Browse for the BatchImport.xml file or individual display.xml file.

Open up the newly imported display. Notice that there are graphic symbol launch buttons labeled and configured for each item that was configured in Application Code Manager.

Right-click on the object and select *Global Object Parameters* to view that all of the parameters have been pre-configured for you.

Global Object Parameter Values

	Name	Value	Tag	Description
1	#102	(raC-5_01-ME) raC_Dvc_1756_OB16D-Faceplate	•••	Faceplate Display Name e.g. (raC-5_00-ME) raC_Dvc_XXXX_XXXX-Faceplate
2	#103	{::[CLX]R1756:5:I}	•••	IO Module Input Tag e.g. {::[Topic Name]Local:1:I}
3	#104	{::[CLX]R1756:5:O}	•••	IO Module Output Tag e.g. {::[Topic Name]Local:1:O}
4	#106	DO	•••	Custom button label. Leave blank to use InputTag.@Description
5	#120		•••	Display's left position (e.g. 100)
6	#121		•••	Display's top position (e.g. 100)

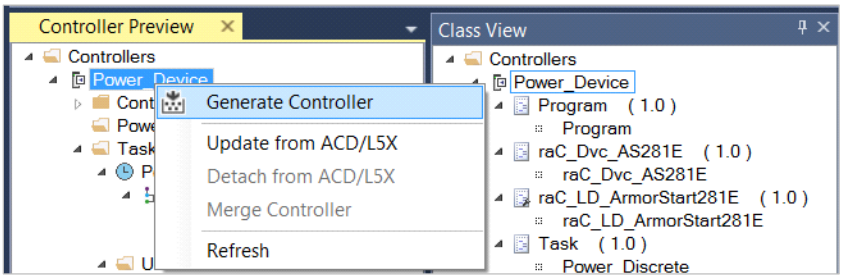
You may not copy and paste this graphic symbol onto any other display in your application.

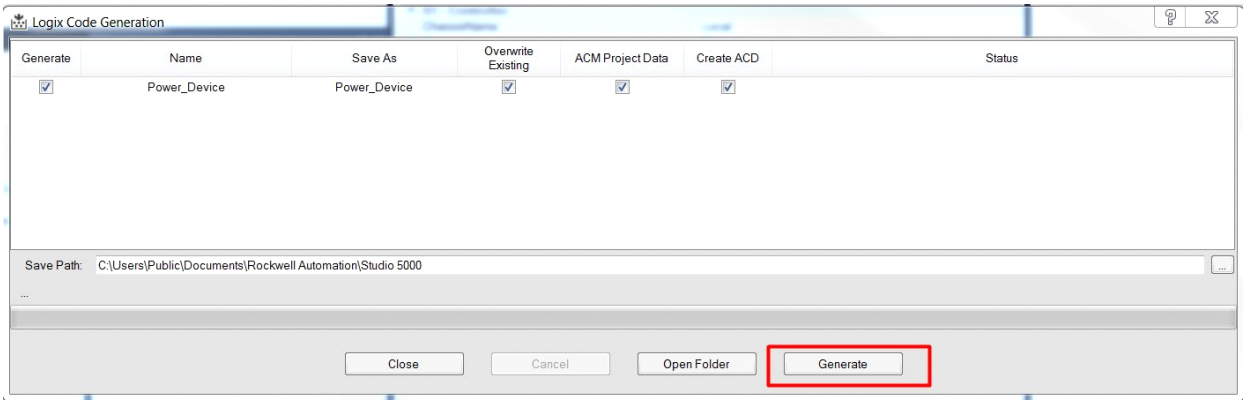
Generating Controller Files

Once you have completed configuring your project in Studio 5000® Application Code Manager, you can generate the controller file for use in Studio 5000 Logix Designer®.

In the *Controller Preview* pane right-click on the controller name within the *Controllers* folder and select *Generate Controller.*

In the *Logix Code Generation* dialogue window you will need to check *Create ACD*. You ma also need to check *Overwrite Existing* if this is not the first time generating the controller code.



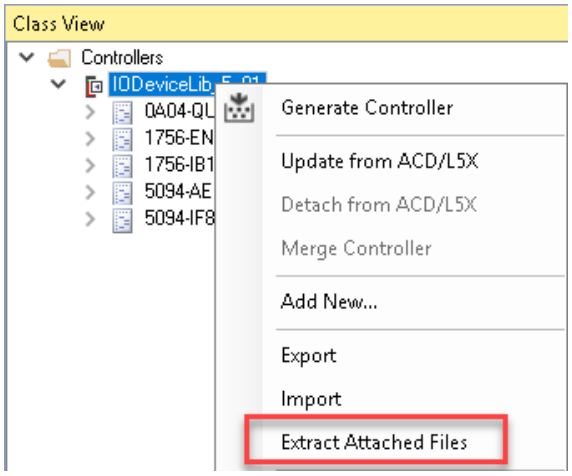


Once the controller file is generated, you can navigate to the location set in *Save Path* and open your file. Note that all of the configuration that was done in Application Code Manager is now shown in your Logix Designer ACD file.

Exporting Attachments

Application Code Libraries not only contain Logix code, but also contain Visualization collateral and associated documentation. Every Asset library contains at least a reference manual (RM). Those libraries which have associated Visualization content also have all required global objects (GO), images, static displays and View Designer applications added as attachments. In this manner the user can generate only the necessary visualization and documentation for the objects included in the project.

To access the attached files, right click on the Controller in Class View and select *Extract Attached Files*.



Select the destination folder on your computer, and select OK. An Extract Attachments dialog will show the extraction status.

The extracted folder will contain the following:

- Reference Manual
- Required Images
- View Designer Faceplate Files
- FactoryTalk® View Machine Edition Displays
- FactoryTalk® View Machine Edition Global Objects
- FactoryTalk® View Site Edition Displays
- FactoryTalk® View Site Edition Global Objects

Chapter 5

Using the IO Device Library with Other Application Code Libraries

Application Code Libraries

The IO Device Library is can be used alongside other Application Code Libraries.

The Machine Builder Library and PlantPAx® Process Object Library application-level library objects may be used in the same applications with the module objects in the IO Device Library. This allows you to map application instruction I/O tags to I/O module channels in your project.

The IO Device Library is also used with the Safety Device Library for safety applications to allow mapping safety instructions to I/O module channel tags.

Digital Input Modules

Overview

Digital input module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, status and faults

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
1719	1719-IBN8	(raC-5_00-SE) raC_Dvc_1719_IBN8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IBN8-Faceplate.gfx
	1719-IBN8B	(raC-5_00-SE) raC_Dvc_1719_IBN8B-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IBN8B-Faceplate.gfx

Family	Module	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
1732E	1732E-IB16M12	(raC-5_00-SE) raC_Dvc_1732E_IB16M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB16M12-Faceplate.gfx
	1732E-IB16M12R	(raC-5_00-SE) raC_Dvc_1732E_IB16M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB16M12R-Faceplate.gfx
	1732E-IB16M12W	(raC-5_00-SE) raC_Dvc_1732E_IB16M12W-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB16M12W-Faceplate.gfx
	1732E-IB8M8SOER	(raC-5_00-SE) raC_Dvc_1732E_IB8M8SOER-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IB8M8SOER-Faceplate.gfx
1734	1734-IA2	(raC-5_00-SE) raC_Dvc_1734_IA2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IA2-Faceplate.gfx
	1734-IA4	(raC-5_00-SE) raC_Dvc_1734_IA4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IA4-Faceplate.gfx
	1734-IB2	(raC-5_00-SE) raC_Dvc_1734_IB2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IB2-Faceplate.gfx
	1734-IB4	(raC-5_00-SE) raC_Dvc_1734_IB4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IB4-Faceplate.gfx
	1734-IB8	(raC-5_00-SE) raC_Dvc_1734_IB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IB8-Faceplate.gfx
	1734-IM2	(raC-5_00-SE) raC_Dvc_1734_IM2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IM2-Faceplate.gfx
	1734-IM4	(raC-5_00-SE) raC_Dvc_1734_IM4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IM4-Faceplate.gfx
	1734-IV2	(raC-5_00-SE) raC_Dvc_1734_IV2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IV2-Faceplate.gfx
	1734-IV4	(raC-5_00-SE) raC_Dvc_1734_IV4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IV4-Faceplate.gfx
	1734-8CFG	(raC-5_03-SE) raC_Dvc_1734_8CFG-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734_8CFG-Faceplate.gfx
	1734-IV8	(raC-5_00-SE) raC_Dvc_1734_IV8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IV8-Faceplate.gfx
1738	1738-IA2M12AC3	(raC-5_00-SE) raC_Dvc_1738_IA2M12AC3-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IA2M12AC3-Faceplate.gfx
	1738-IA2M12AC4	(raC-5_00-SE) raC_Dvc_1738_IA2M12AC4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IA2M12AC4-Faceplate.gfx
	1738-IB2M12	(raC-5_00-SE) raC_Dvc_1738_IB2M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB2M12-Faceplate.gfx
	1738-IB4M12	(raC-5_00-SE) raC_Dvc_1738_IB4M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB4M12-Faceplate.gfx
	1738-IB4M8	(raC-5_00-SE) raC_Dvc_1738_IB4M8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB4M8-Faceplate.gfx
	1738-IB8M12	(raC-5_00-SE) raC_Dvc_1738_IB8M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB8M12-Faceplate.gfx
	1738-IB8M23	(raC-5_00-ME) raC_Dvc_1738_IB8M23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB8M23-Faceplate.gfx
	1738-IB8M8	(raC-5_00-SE) raC_Dvc_1738_IB8M8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IB8M8-Faceplate.gfx
	1738-IV4M12	(raC-5_00-SE) raC_Dvc_1738_IV4M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV4M12-Faceplate.gfx
	1738-IV8M12	(raC-5_00-SE) raC_Dvc_1738_IV8M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV8M12-Faceplate.gfx
	1738-IV8M23	(raC-5_00-SE) raC_Dvc_1738_IV8M23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV8M23-Faceplate.gfx
	1738-IV8M8	(raC-5_00-SE) raC_Dvc_1738_IV8M8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IV8M8-Faceplate.gfx
1756	1756-IA16	(raC-5_00-SE) raC_Dvc_1756_IA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IA16-Faceplate.gfx
	1756-IA16I	(raC-5_00-SE) raC_Dvc_1756_IA16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IA16I-Faceplate.gfx
	1756-IA32	(raC-5_00-SE) raC_Dvc_1756_IA32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IA32-Faceplate.gfx
	1756-IB16	(raC-5_00-SE) raC_Dvc_1756_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IB16-Faceplate.gfx
	1756-IB16I	(raC-5_00-SE) raC_Dvc_1756_IB16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IB16I-Faceplate.gfx
	1756-IB32	(raC-5_00-SE) raC_Dvc_1756_IB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IB32-Faceplate.gfx
	1756-IC16	(raC-5_00-SE) raC_Dvc_1756_IC16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IC16-Faceplate.gfx
	1756-IG16	(raC-5_00-SE) raC_Dvc_1756_IG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IG16-Faceplate.gfx
	1756-IH16I	(raC-5_00-SE) raC_Dvc_1756_IH16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IH16I-Faceplate.gfx
	1756-IM16I	(raC-5_00-SE) raC_Dvc_1756_IM16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IM16I-Faceplate.gfx
	1756-IN16	(raC-5_00-SE) raC_Dvc_1756_IN16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IN16-Faceplate.gfx
	1756-IV16	(raC-5_00-SE) raC_Dvc_1756_IV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IV16-Faceplate.gfx
	1756-IV32	(raC-5_00-SE) raC_Dvc_1756_IV32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IV32-Faceplate.gfx
	1756-IB16IF	(raC-5_02-SE) raC_Dvc_1756_IB16IF-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IB16IF-Faceplate.gfx
	1756-IB16ISOE	(raC-5_01-SE) raC_Dvc_1756_IB16ISOE-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IB16ISOE-Faceplate.gfx
	1756sc-IC32	(raC-5_02-SE) raC_Dvc_1756sc_IC32-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756sc_IC32-Faceplate.gfx

Family	Module	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
1769	1769-IA16	(raC-5_02-SE) raC_Dvc_1769_IA16-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769_IA16-Faceplate.gfx
	1769-IA8I	(raC-5_00-SE) raC_Dvc_1769_IA8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IA8I-Faceplate.gfx
	1769-IG16	(raC-5_00-SE) raC_Dvc_1769_IG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IG16-Faceplate.gfx
	1769-IM12	(raC-5_00-SE) raC_Dvc_1769_IM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IM12-Faceplate.gfx
	1769-IQ16	(raC-5_00-SE) raC_Dvc_1769_IQ16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ16-Faceplate.gfx
	1769-IQ16F	(raC-5_00-SE) raC_Dvc_1769_IQ16F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ16F-Faceplate.gfx
	1769-IQ32	(raC-5_00-SE) raC_Dvc_1769_IQ32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ32-Faceplate.gfx
	1769-IQ32T	(raC-5_00-SE) raC_Dvc_1769_IQ32T-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ32T-Faceplate.gfx
	1769-IQ6XOW4	(raC-5_00-SE) raC_Dvc_1769_IQ6XOW4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IQ6XOW4-Faceplate.gfx
1794	1794-IA16	(raC-5_00-SE) raC_Dvc_1794_IA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IA16-Faceplate.gfx
	1794-IA8	(raC-5_00-SE) raC_Dvc_1794_IA8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IA8-Faceplate.gfx
	1794-IA8I	(raC-5_00-SE) raC_Dvc_1794_IA8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IA8I-Faceplate.gfx
	1794-IB10XOB6	(raC-5_02-SE) raC_Dvc_1794_IB10XOB6-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IB10XOB6-Faceplate.gfx
	1794-IB16	(raC-5_00-SE) raC_Dvc_1794_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB16-Faceplate.gfx
	1794-IB16XOB16P	(raC-5_02-SE) raC_Dvc_1794_IB16XOB16P-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IB16XOB16P-Faceplate.gfx
	1794-IB32	(raC-5_00-SE) raC_Dvc_1794_IB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB32-Faceplate.gfx
	1794-IB8	(raC-5_00-SE) raC_Dvc_1794_IB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IB8-Faceplate.gfx
	1794-IC16	(raC-5_00-SE) raC_Dvc_1794_IC16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IC16-Faceplate.gfx
	1794-IG16	(raC-5_00-SE) raC_Dvc_1794_IG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IG16-Faceplate.gfx
	1794-IH16	(raC-5_00-SE) raC_Dvc_1794_IH16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IH16-Faceplate.gfx
	1794-IM16	(raC-5_00-SE) raC_Dvc_1794_IM16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IM16-Faceplate.gfx
	1794-IM8	(raC-5_00-SE) raC_Dvc_1794_IM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IM8-Faceplate.gfx
	1794-IV16	(raC-5_00-SE) raC_Dvc_1794_IV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IV16-Faceplate.gfx
	1794-IV32	(raC-5_00-SE) raC_Dvc_1794_IV32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IV32-Faceplate.gfx
5069	5069-IA16	(raC-5_00-SE) raC_Dvc_5069_IA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IA16-Faceplate.gfx
	5069-IB6F-3W	(raC-5_00-ME) raC_Dvc_5069_IB6F_3W-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IB6F_3W-Faceplate.gfx
	5069-IB16	(raC-5_00-SE) raC_Dvc_5069_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IB16-Faceplate.gfx
	5069-IB16F	(raC-5_00-SE) raC_Dvc_5069_IB16F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IB16F-Faceplate.gfx
5094	5094-IB16	(raC-5_00-SE) raC_Dvc_5094_IB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_IB16-Faceplate.gfx
	5094-IA16	(raC-5_02-SE) raC_Dvc_5094_IA16-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IA16-Faceplate.gfx
	5094-IB32	(raC-5_03-SE) raC_Dvc_5094_IB32-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_5094_IB32-Faceplate.gfx
	5094-IM8	(raC-5_03-SE) raC_Dvc_5094_IM8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IM8-Faceplate.gfx
5032	5032-CFGB16M12DR, 5032-CFGB16M12P5DR, 5032-CFGB16M12M12LDR	(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_IN_16Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_IN_16Pt-Faceplate.gfx
		(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_IN_8Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_IN_8Pt-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1719	raC_Dvc_1719IO_wDesc.vpd	1719-IBN8	raC_Dvc_1719-IBN8_wDesc_FP
		1719-IBN8B	raC_Dvc_1719-IBN8B_wDesc_FP
1732E	raC_Dvc_1732IO_wDesc.vpd	1732E-IB16M12	raC_Dvc_1732E-IB16M12_wDesc_FP
		1732E-IB16M12R	raC_Dvc_1732E-IB16M12R_wDesc_FP
		1732E-IB16M12W	raC_Dvc_1732E-IB16M12W_wDesc_FP
		1732E-IB8M8SOER	raC_Dvc_1732E-IB8M8SOER_wDesc_FP
1734	raC_Dvc_1734IO_wDesc.vpd	1734-IA2	raC_Dvc_1734-IA2_wDesc_FP
		1734-IA4	raC_Dvc_1734-IA4_wDesc_FP
		1734-IB2	raC_Dvc_1734-IB2_wDesc_FP
		1734-IB4	raC_Dvc_1734-IB4_wDesc_FP
		1734-IB8	raC_Dvc_1734-IB8_wDesc_FP
		1734-IM2	raC_Dvc_1734-IM2_wDesc_FP
		1734-IM4	raC_Dvc_1734-IM4_wDesc_FP
		1734-IV2	raC_Dvc_1734-IV5_wDesc_FP
		1734-IV4	raC_Dvc_1734-IV4_wDesc_FP
		1734-IV8	raC_Dvc_1734-IV8_wDesc_FP
1738	raC_Dvc_1738IO_wDesc.vpd	1738-IA2M12AC3	raC_Dvc_1738-IA2M12AC3_wDesc_FP
		1738-IA2M12AC4	raC_Dvc_1738-IA2M12AC4_wDesc_FP
		1738-IB2M12	raC_Dvc_1738-IB2M12_wDesc_FP
		1738-IB4M12	raC_Dvc_1738-IB4M12_wDesc_FP
		1738-IB4M8	raC_Dvc_1738-IB4M8_wDesc_FP
		1738-IB8M12	raC_Dvc_1738-IB8M12_wDesc_FP
		1738-IB8M23	raC_Dvc_1738-IB8M23_wDesc_FP
		1738-IB8M8	raC_Dvc_1738-IB8M8_wDesc_FP
		1738-IV4M12	raC_Dvc_1738-IV4M12_wDesc_FP
		1738-IV8M12	raC_Dvc_1738-IV8M12_wDesc_FP
		1738-IV8M23	raC_Dvc_1738-IV8M23_wDesc_FP
		1738-IV8M8	raC_Dvc_1738-IV8M8_wDesc_FP
1756	raC_Dvc_1756IO_wDesc.vpd	1756-IA16	raC_Dvc_1756-IA16_wDesc_FP
		1756-IA16I	raC_Dvc_1756-IA16I_wDesc_FP
		1756-IA32	raC_Dvc_1756-IA32_wDesc_FP
		1756-IB16	raC_Dvc_1756-IB16_wDesc_FP
		1756-IB16I	raC_Dvc_1756-IB16I_wDesc_FP
		1756-IB16ISOE	raC_Dvc_1756-IB16ISOE_wDesc_FP
		1756-IB16IF	raC_Dvc_1756-IB16IF_wDesc_FP
		1756-IB32	raC_Dvc_1756-IB32_wDesc_FP
		1756-IC16	raC_Dvc_1756-IC16_wDesc_FP
		1756-IG16	raC_Dvc_1756-IG16_wDesc_FP
		1756-IH16I	raC_Dvc_1756-IH16I_wDesc_FP
		1756-IB16ISOE	raC_Dvc_1756-IB16ISOE_wDesc_FP
		1756-IM16I	raC_Dvc_1756-IM16I_wDesc_FP
		1756-IN16	raC_Dvc_1756-IN16_wDesc_FP
		1756-IV16	raC_Dvc_1756-IV16_wDesc_FP
		1756-IV32	raC_Dvc_1756-IV32_wDesc_FP

Family	View Designer File	Module	View Designer Screen
1769	raC_Dvc_1769IO_wDesc.vpd	1769-IA16	raC_Dvc_1769-IA16_wDesc_FP
		1769-IA8I	raC_Dvc_1769-IA8I_wDesc_FP
		1769-IG16	raC_Dvc_1769-IG16_wDesc_FP
		1769-IM12	raC_Dvc_1769-IM12_wDesc_FP
		1769-IQ16	raC_Dvc_1769-IQ16_wDesc_FP
		1769-IQ16F	raC_Dvc_1769-IQ16F_wDesc_FP
		1769-IQ32	raC_Dvc_1769-IQ32_wDesc_FP
		1769-IQ32T	raC_Dvc_1769-IQ32T_wDesc_FP
		1769-IQ6XOW4	raC_Dvc_1769-IQ6XOW4_wDesc_FP
1794	raC_Dvc_1794IO_wDesc.vpd	1794-IA16	raC_Dvc_1794-IA16_wDesc_FP
		1794-IA8	raC_Dvc_1794-IA8_wDesc_FP
		1794-IA8I	raC_Dvc_1794-IA8I_wDesc_FP
		1794-IB10XOB6	raC_Dvc_1794-IB10XOB6_wDesc_FP
		1794-IB16	raC_Dvc_1794-IB16_wDesc_FP
		1794-IB16XOB16P	raC_Dvc_1794-IB16XOB16P_wDesc_FP
		1794-IB32	raC_Dvc_1794-IB32_wDesc_FP
		1794-IB8	raC_Dvc_1794-IB8_wDesc_FP
		1794-IC16	raC_Dvc_1794-IC16_wDesc_FP
		1794-IG16	raC_Dvc_1794-IG16_wDesc_FP
		1794-IH16	raC_Dvc_1794-IH16_wDesc_FP
		1794-IM16	raC_Dvc_1794-IM16_wDesc_FP
		1794-IM8	raC_Dvc_1794-IM8_wDesc_FP
		1794-IV16	raC_Dvc_1794-IV16_wDesc_FP
		1794-IV32	raC_Dvc_1794-IV32_wDesc_FP
5069	raC_Dvc_5069IO_wDesc.vpd	5069-IA16	raC_Dvc_5069-IA16_wDesc_FP
		5069-IB6F-3W	raC_Dvc_5069-IB6F-3W_wDesc_FP
		5069-IB16	raC_Dvc_5069-IB16_wDesc_FP
		5069-IB16F	raC_Dvc_5069-IB16F_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-IB16	raC_Dvc_5094-IB16_wDesc_FP
		5094-IM8	raC_Dvc_5094_IM8_wDesc_FP
		5094-IB32	raC_Dvc_5094_IB32_wDesc_FP
		5094-IA16	raC_Dvc_5094_IA16_wDesc_FP
5032	raC_Dvc_5032IO_wDesc.vpd	5032-CFGB16M12DR, 5032-CFGB16M12P5DR, 5032-CFGB16M12M12LDR	raC_Dvc_5032_CFGB16M12xx_IN_16Pt_wDes_FP
			raC_Dvc_5032_CFGB16M12xx_IN_8Pt_Des_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1719	1719-IBN8	(RA-LIB)_ACM_2.00_Module_Digital_1719-IBN8_(5.3).HSL4
	1719-IBN8B	(RA-LIB)_ACM_2.00_Module_Digital_1719-IBN8B_(5.3).HSL4
1732E	1732E-IB16M12	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB16M12_A_(5.3).HSL4
	1732E-IB16M12W	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB16M12W_A_(5.3).HSL4
	1732E-IB16M12R	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB16M12R_B_(5.3).HSL4
	1732E-IB8M8SOER	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB8M8SOER_A_(5.3).HSL4
	1732E-16CFGM12P5QCR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-16CFGM12P5QCR_A_(5.4).HSL4
	1732E-16CFGM12QCWR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-16CFGM12QCWR_A_(5.4).HSL4
	1732E- 16CFGM12R	(RA-LIB)_ACM_2.00_Module_Digital_1732E-16CFGM12R_B_(5.4).HSL4
	1732E- 8CFGM8R	(RA-LIB)_ACM_2.00_Module_Digital_1732E-8CFGM8R_A_(5.4).HSL4
1734	1734-IA2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IA2_C_(5.3).HSL4
	1734-IA4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IA4_C_(5.3).HSL4
	1734-IB2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB2_C_(5.3).HSL4
	1734-IB4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB4_C_(5.3).HSL4
	1734-IB8	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB8_C_(5.3).HSL4
	1734-IM2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IM2_C_(5.3).HSL4
	1734-IM4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IM4_C_(5.3).HSL4
	1734-IV2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV2_C_(5.3).HSL4
	1734-IV4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV4_C_(5.3).HSL4
	1734-IV8	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV8_C_(5.3).HSL4
	1734-8CFG	(RA-LIB)_ACM_2.00_Module_Digital_1734-8CFG_C_(5.3).HSL4
1738	1738-IA2M12AC3	(RA-LIB)_ACM_2.00_Module_Digital_1738-IA2M12AC3_A_(5.3).HSL4
	1738-IA2M12AC4	(RA-LIB)_ACM_2.00_Module_Digital_1738-IA2M12AC4_A_(5.3).HSL4
	1738-IB2M12	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB2M12_A_(5.3).HSL4
	1738-IB4M12	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB4M12_A_(5.3).HSL4
	1738-IB4M8	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB4M8_A_(5.3).HSL4
	1738-IB8M12	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB8M12_A_(5.3).HSL4
	1738-IB8M23	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB8M23_A_(5.3).HSL4
	1738-IB8M8	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB8M8_A_(5.3).HSL4
	1738-IV4M12	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV4M12_A_(5.3).HSL4
	1738-IV8M12	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV8M12_A_(5.3).HSL4
	1738-IV8M23	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV8M23_A_(5.3).HSL4
	1738-IV8M8	(RA-LIB)_ACM_2.00_Module_Digital_1738-IV8M8_A_(5.3).HSL4
	1738-8CFGM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-8CFGM12_A_(2.1).HSL4
	1738-8CFGM23	(RA-LIB)_ACM_2.00_Module_Digital_1738-8CFGM23_A_(2.1).HSL4
	1738-8CFGM8	(RA-LIB)_ACM_2.00_Module_Digital_1738-8CFGM8_A_(2.1).HSL4
	1738-IB16DM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB16DM12_A_(2.1).HSL4
	1738-IB4DM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-IB4DM12_A_(2.1).HSL4
	1738-OB4EM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB4EM12_A_(5.3).HSL4

Family	Module	Application Code Manager File
1756	1756-IA16	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA16_(5.3).HSL4
	1756-IA16I	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA16I_(5.3).HSL4
	1756-IA32	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA32_A_(5.3).HSL4
	1756-IB16	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16_(5.3).HSL4
	1756-IB16I	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16I_(5.3).HSL4
	1756-IB32	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA32_A_(5.3).HSL4
	1756-IC16	(RA-LIB)_ACM_2.00_Module_Digital_1756-IC16_(5.3).HSL4
	1756-IG16	(RA-LIB)_ACM_2.00_Module_Digital_1756-IG16_A_(5.3).HSL4
	1756-IH16I	(RA-LIB)_ACM_2.00_Module_Digital_1756-IH16I_(5.3).HSL4
	1756-IM16I	(RA-LIB)_ACM_2.00_Module_Digital_1756-IM16I_(5.3).HSL4
	1756-IN16	(RA-LIB)_ACM_2.00_Module_Digital_1756-IN16_(5.3).HSL4
	1756-IV16	(RA-LIB)_ACM_2.00_Module_Digital_1756-IV16_A_(5.3).HSL4
	1756sc-IC32	(RA-LIB)_ACM_2.00_Module_Digital_1756sc-IC32_A_(5.3).HSL4
	1756-IB16IF	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16IF_A_(5.3).HSL4
	1756-IB16ISOE	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16ISOE_A_(5.3).HSL4
	1756-IH16ISOE	(RA-LIB)_ACM_2.00_Module_Digital_1756-IH16ISOE_A_(5.3).HSL4
	1756-IV32	(RA-LIB)_ACM_2.00_Module_Digital_1756-IV32_A_(5.3).HSL4
1769	1769-IA16	(RA-LIB)_ACM_2.00_Module_Digital_1769-IA16_A_(5.3).HSL4
	1769-IA8I	(RA-LIB)_ACM_2.00_Module_Digital_1769-IA8I_(5.3).HSL4
	1769-IG16	(RA-LIB)_ACM_2.00_Module_Digital_1769-IG16_A_(5.3).HSL4
	1769-IM12	(RA-LIB)_ACM_2.00_Module_Digital_1769-IM12_A_(5.3).HSL4
	1769-IQ16	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ16_A_(5.3).HSL4
	1769-IQ16F	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ16F_A_(5.3).HSL4
	1769-IQ32	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ32_A_(5.3).HSL4
	1769-IQ32T	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ32T_A_(5.3).HSL4
	1769-IQ6XOW4	(RA-LIB)_ACM_2.00_Module_Digital_1769-IQ6XOW4_B_(5.3).HSL4
1794	1794-IA16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA16_A_(5.3).HSL4
	1794-IA8	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA8_A_(5.3).HSL4
	1794-IA8I	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA8I_A_(5.3).HSL4
	1794-IB10XOB6	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB10XOB6_A_(5.3).HSL4
	1794-IB16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16_A_(5.3).HSL4
	1794-IB16XOB16P	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16XOB16P_A_(5.3).HSL4
	1794-IB32	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB32_A_(5.3).HSL4
	1794-IB8	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB8_A_(5.3).HSL4
	1794-IC16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IC16_A_(5.3).HSL4
	1794-IG16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IG16_A_(5.3).HSL4
	1794-IH16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IH16_A_(5.3).HSL4
	1794-IM16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IM16_A_(5.3).HSL4
	1794-IM8	(RA-LIB)_ACM_2.00_Module_Digital_1794-IM8_A_(5.3).HSL4
	1794-IV16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IV16_A_(5.3).HSL4
	1794-IV32	(RA-LIB)_ACM_2.00_Module_Digital_1794-IV32_A_(5.3).HSL4
5069	5069-IA16	(RA-LIB)_ACM_2.00_Module_Digital_5069-IA16_A_(5.3).HSL4
	5069-IB6F-3W	(RA-LIB)_ACM_2.00_Module_Digital_5069-IB6F-3W_A_(5.3).HSL4
	5069-IB16	(RA-LIB)_ACM_2.00_Module_Digital_5069-IB16_A_(5.3).HSL4
	5069-IB16F	(RA-LIB)_ACM_2.00_Module_Digital_5069-IB16F_A_(5.3).HSL4

Family	Module	Application Code Manager File
5094	5094-IB16	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16_A_(5.3).HSL4
	5094-IB16XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16XT_A_(5.3).HSL4
	5094-IA16	(RA-LIB)_ACM_2.00_Module_Digital_5094-IA16_A_(5.3).HSL4
	5094-IA16XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-IA16XT_A_(5.3).HSL4
	5094-IB32	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB32_A_(5.3).HSL4
	5094-IB32XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB32XT_A_(5.3).HSL4
	5094-IM8	(RA-LIB)_ACM_2.00_Module_Digital_5094-IM8_A_(5.3).HSL4
	5094-IM8XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-IM8XT_A_(5.3).HSL4
5032	5032-CFGB16M12DR, 5032-CFGB16M12P5DR, 5032-CFGB16M12M12LDR	(RA-LIB)_ACM_2.00_Module_Digital_5032-CFG16M12DR_A_(5.4).HSL4
		(RA-LIB)_ACM_2.00_Module_Digital_5032-CFGB16M12M12LDR_A_(5.4).HSL4
		(RA-LIB)_ACM_2.00_Module_Digital_5032-CFGB16M12P5DR_A_(5.4).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

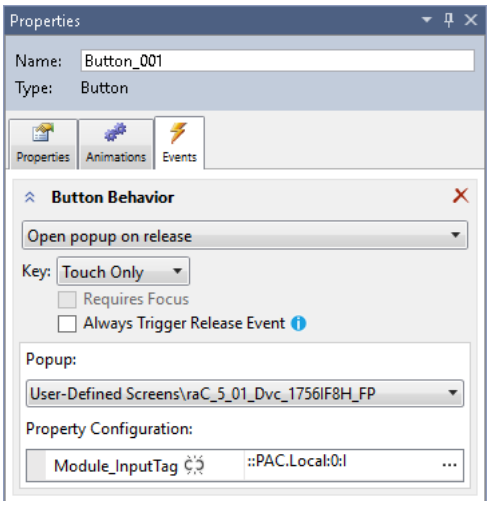
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACIn_50xx	Use with 1719/5069/5015 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_DCIn_1794	Use with 1794 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_Launch_DCIn_5094	Use with 5094 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_LaunchACIn_1794	Use with 1794 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACIn_5094	Use with 5094 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchIn_Armor	Use with 1732E/1738 Digital Input Only Modules	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_Launch_Armor_IN	Use with 5032 Digital Input Only Modules	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_50xx	Use with 1719/5069/5015 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_DCIn_1794	Use with 1794 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_DCIn_5094	Use with 5094 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_1794	Use with 1794 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_5094	Use with 5094 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchIn_Armor	Use with 1732E/1738 Digital Input Only Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_5032_CFGB 16M12_IN16/IN8	Use with 5032 Digital Input Only Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes for more information.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

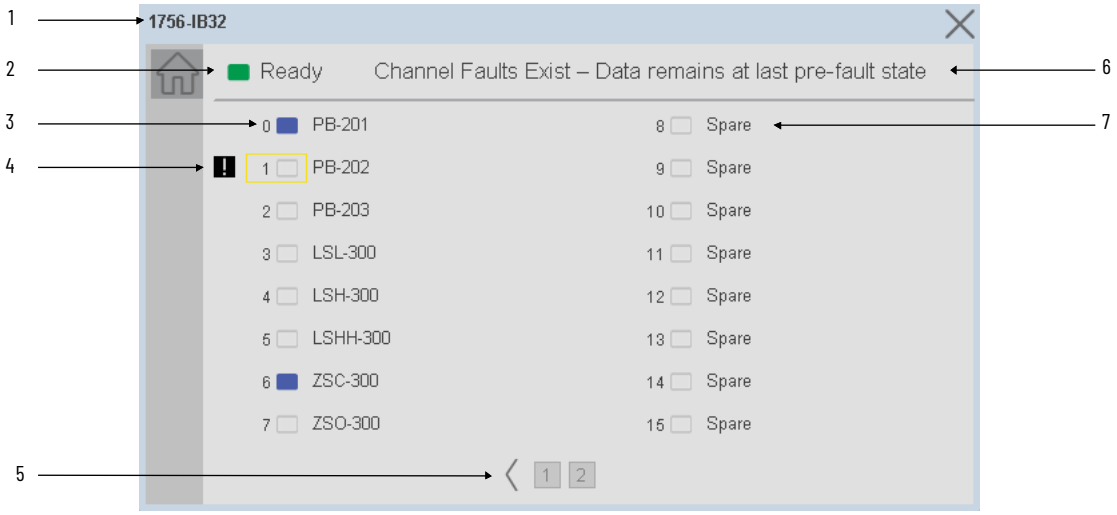
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Input modules this is the individual I.Data.*x* BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:8:I	1756-IB32	AB:1756_DI:I:0
R1756:8:I.Fault	1756-IB32	DINT
R1756:8:I.Data	1756-IB32	DINT
R1756:8:I.Data.0	PB-201	BOOL
R1756:8:I.Data.1	PB-202	BOOL
R1756:8:I.Data.2	PB-203	BOOL
R1756:8:I.Data.3	LSL-300	BOOL
R1756:8:I.Data.4	LSH-300	BOOL
R1756:8:I.Data.5	LSHH-300	BOOL

Home

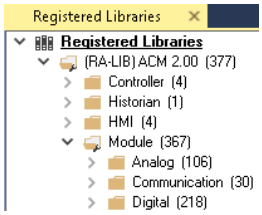
The main tab of the faceplate is the Home tab, which displays information regarding the I/O channels and faults. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation; used for modules with more than 16 channels.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:I.Data.x.@Description	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-IB16F) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
NavigationButton	GraphicalButton	Select Navigation Button Type

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules
Launch Button	GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules
Launch Button	GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules
Launch Button	GO_LaunchACIn_50xx	Use with 1719/5069/5015 AC Input Modules
Launch Button	GO_Launch_DCIn_1794	Use with 1794 DC Input Modules
Launch Button	GO_Launch_DCIn_5094	Use with 5094 DC Input Modules
Launch Button	GO_LaunchACIn_1794	Use with 1794 AC Input Modules
Launch Button	GO_LaunchACIn_5094	Use with 5094 AC Input Modules
Launch Button	GO_LaunchIn_Armor	Use with 1732E/1738 Digital Input Only Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object

Name	Description	File Name	Extraction Path
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Digital Input Diagnostic Modules

Overview

Digital input diagnostic module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, status and detailed faults

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	1756-IA8D	(raC-5_03-SE) raC_Dvc_1756_IA8D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IA8D-Faceplate.gfx
	1756-IB16D	(raC-5_01-SE) raC_Dvc_1756_IB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IB16D-Faceplate.gfx

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1734	1734-IB4D	(raC-5_03-SE) raC_Dvc_1734_IB4D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_IB4D-Faceplate.gfx
1794	1794-IB16D	(raC-5_01-SE) raC_Dvc_1794_IB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1794_IB16D-Faceplate.gfx
1715	1715-IB16D	(raC-5_01-SE) raC_Dvc_1715_IB16D_Simplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IB16D_Simplex-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1756	raC_Dvc_1756IO_wDesc.vpd	1756-IA8D	raC_Dvc_1756-IA8D_wDesc_FP
		1756-IB16D	raC_Dvc_1756-IB16D_wDesc_FP
1734	raC_Dvc_1734IO_wDesc.vpd	1734-IB4D	raC_Dvc_1734-IB4D_wDesc_FP
1794	raC_Dvc_1794IO_wDesc.vpd	1794-IB16D	raC_Dvc_1794-IB16D_wDesc_FP
1715	raC_Dvc_1715IO_wDesc.vpd	1715-IB16D	raC_Dvc_1715-IB16D_Simplex_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the */ApplicationCodeManagerLibraries/* folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1756	1756-IA8D	(RA-LIB)_ACM_2.00_Module_Digital_1756-IA8D_(5.3).HSL4
	1756-IB16D	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16D_(5.3).HSL4
1734	1734-IB4D	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB4D_C_(5.3).HSL4
1794	1794-IB16D	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16D_A_(5.3).HSL4
1715	1715-IB16D	(RA-LIB)_ACM_2.00_Module_Digital_1715-IB16D_A_(5.3).HSL4

Family	Module	Application Code Manager File
1732E	1732E-IB16M12DR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB16M12DR_B_(5.4).HSL4
	1732E-IB16M12SOEDR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-IB16M12SOEDR_A_(5.4).HSL4
	1732E-12X4M12P5QCDR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-12X4M12P5QCDR_A_(5.4).HSL4
	1732E-8X8M12DR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-8X8M12DR_B_(5.4).HSL4
	1732E-12X4M12QCDR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-12X4M12QCDR_A_(5.4).HSL4
	1732E-16CFGM12M12LDR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-16CFGM12M12LDR_A_(5.4).HSL4
	1732E-16CFGM12P5DR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-16CFGM12P5DR_A_(5.4).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

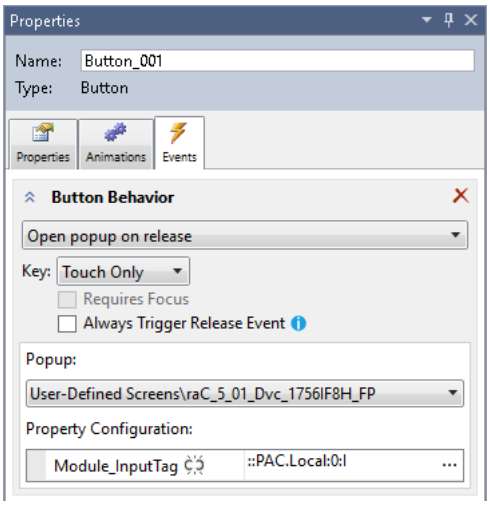
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACIn_50xx	Use with 1719/5069/5015 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_Launch_DCIn_1794	Use with 1794 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_Launch_DCIn_5094	Use with 5094 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchACIn_1794	Use with 1794 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACIn_5094	Use with 5094 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_50xx	Use with 1719/5069/5015 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_DCIn_1794	Use with 1794 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_DCIn_5094	Use with 5094 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_1794	Use with 1794 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_5094	Use with 5094 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes for more information.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

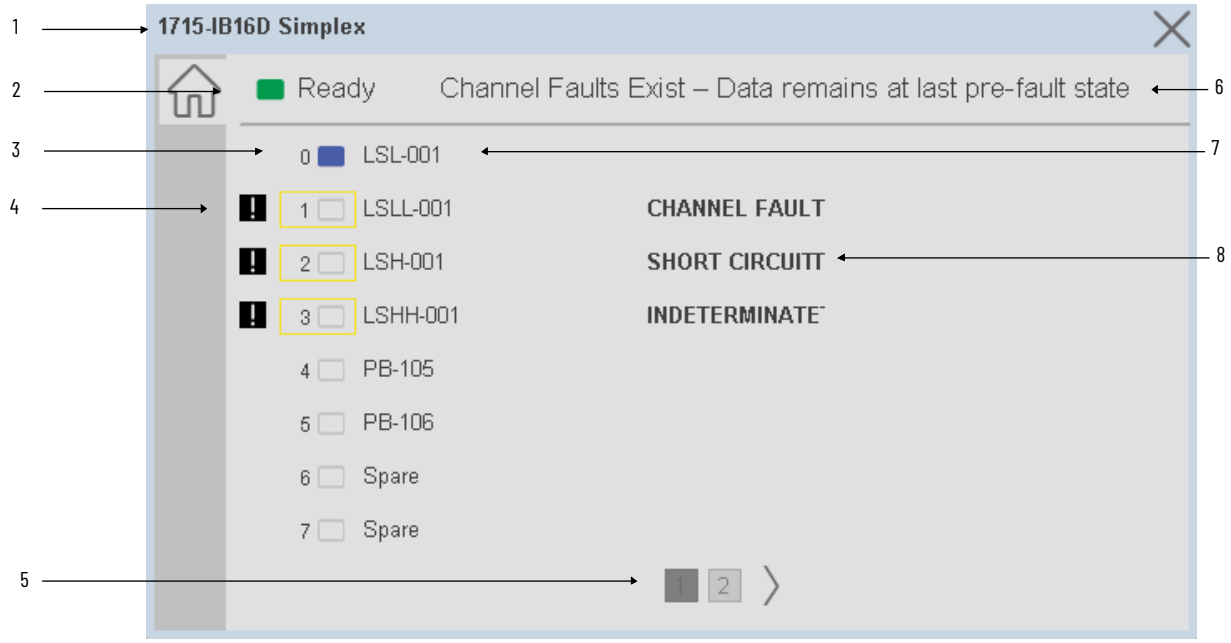
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Input modules this is the individual I.Data.*x* BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:8:I	1756-IB32	AB:1756_DI:I:0
R1756:8:I.Fault	1756-IB32	DINT
R1756:8:I.Data	1756-IB32	DINT
R1756:8:I.Data.0	PB-201	BOOL
R1756:8:I.Data.1	PB-202	BOOL
R1756:8:I.Data.2	PB-203	BOOL
R1756:8:I.Data.3	LSL-300	BOOL
R1756:8:I.Data.4	LSH-300	BOOL
R1756:8:I.Data.5	LSHH-300	BOOL

Home

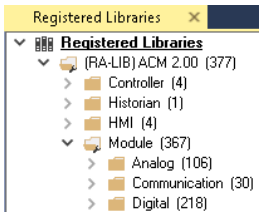
The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation; used for modules with more than 16 channels.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:I.Data.x.@Description	
8	Channel Fault Description: -Open Wire - Fault - Short Circuit (1715 only) - Indeterminate (1715 Only)	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-IB16D) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
NavigationButton	GraphicalButton	Select Navigation Button Type

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules
Launch Button	GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules
Launch Button	GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules
Launch Button	GO_LaunchACIn_50xx	Use with 1719/5069/5015 AC Input Modules
Launch Button	GO_Launch_DCIn_1794	Use with 1794 DC Input Modules
Launch Button	GO_Launch_DCIn_5094	Use with 5094 DC Input Modules

Launch Button	GO_LaunchACIn_1794	Use with 1794 AC Input Modules
Launch Button	GO_LaunchACIn_5094	Use with 5094 AC Input Modules
Launch Button	GO_LaunchIn_Armor	Use with 1732E/1738 Digital Input Only Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Digital Output Modules

Overview

Digital Output module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, status and faults

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1719	1719-OB2	(raC-5_00-SE) raC_Dvc_1719_OB2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_OB2-Faceplate.gfx
	1719-OB2L	(raC-5_00-SE) raC_Dvc_1719_OB2L-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_OB2L-Faceplate.gfx
1732E	1732E-OB16M12	(raC-5_00-SE) raC_Dvc_1732E_OB16M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OB16M12-Faceplate.gfx
	1732E-OB16M12R	(raC-5_00-SE) raC_Dvc_1732E_OB16M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OB16M12R-Faceplate.gfx
	1732E-OB8M8SR	(raC-5_00-SE) raC_Dvc_1732E_OB8M8SR-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OB8M8SR-Faceplate.gfx
1734	1734-OA2	(raC-5_00-SE) raC_Dvc_1734_OA2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OA2-Faceplate.gfx
	1734-OA4	(raC-5_00-SE) raC_Dvc_1734_OA4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OA4-Faceplate.gfx
	1734-OB2	(raC-5_00-SE) raC_Dvc_1734_OB2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB2-Faceplate.gfx
	1734-OB2E	(raC-5_00-SE) raC_Dvc_1734_OB2E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB2E-Faceplate.gfx
	1734-OB2EP	(raC-5_00-SE) raC_Dvc_1734_OB2EP-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB2EP-Faceplate.gfx
	1734-OB4	(raC-5_00-SE) raC_Dvc_1734_OB4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB4-Faceplate.gfx
	1734-OB4E	(raC-5_00-SE) raC_Dvc_1734_OB4E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB4E-Faceplate.gfx
	1734-OB8	(raC-5_00-SE) raC_Dvc_1734_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB8-Faceplate.gfx
	1734-OB8E	(raC-5_00-SE) raC_Dvc_1734_OB8E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OB8E-Faceplate.gfx
	1734-OV2E	(raC-5_00-SE) raC_Dvc_1734_OV2E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OV2E-Faceplate.gfx
	1734-OV4E	(raC-5_00-SE) raC_Dvc_1734_OV4E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OV4E-Faceplate.gfx
	1734-OV8E	(raC-5_00-SE) raC_Dvc_1734_OV8E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OV8E-Faceplate.gfx
	1734-OW2	(raC-5_00-SE) raC_Dvc_1734_OW2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OW2-Faceplate.gfx
	1734-OW4	(raC-5_00-SE) raC_Dvc_1734_OW4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OW4-Faceplate.gfx
	1734-OX2	(raC-5_00-SE) raC_Dvc_1734_OX2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OX2-Faceplate.gfx
1738	1738-OA2M12AC3	(raC-5_00-SE) raC_Dvc_1738_OA2M12AC3-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OA2M12AC3-Faceplate.gfx
	1738-OB16E19M23	(raC-5_00-SE) raC_Dvc_1738_OB16E19M23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB16E19M23-Faceplate.gfx
	1738-OB16E25DS	(raC-5_00-SE) raC_Dvc_1738_OB16E25DS-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB16E25DS-Faceplate.gfx
	1738-OB16EM12	(raC-5_00-SE) raC_Dvc_1738_OB16EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB16EM12-Faceplate.gfx
	1738-OB2EM12	(raC-5_00-SE) raC_Dvc_1738_OB2EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB2EM12-Faceplate.gfx
	1738-OB2EPM12	(raC-5_00-SE) raC_Dvc_1738_OB2EPM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB2EPM12-Faceplate.gfx
	1738-OB4EM12	(raC-5_00-SE) raC_Dvc_1738_OB4EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB4EM12-Faceplate.gfx
	1738-OB4EM8	(raC-5_00-SE) raC_Dvc_1738_OB4EM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB4EM8-Faceplate.gfx
	1738-OB8EM12	(raC-5_00-SE) raC_Dvc_1738_OB8EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB8EM12-Faceplate.gfx
	1738-OB8EM23	(raC-5_00-SE) raC_Dvc_1738_OB8EM23-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB8EM23-Faceplate.gfx
	1738-OB8EM8	(raC-5_00-SE) raC_Dvc_1738_OB8EM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OB8EM8-Faceplate.gfx
	1738-OV4EM12	(raC-5_00-SE) raC_Dvc_1738_OV4EM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OV4EM12-Faceplate.gfx
	1738-OW4M12	(raC-5_00-SE) raC_Dvc_1738_OW4M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OW4M12-Faceplate.gfx
	1738-OW4M12AC4	(raC-5_00-SE) raC_Dvc_1738_OW4M12AC4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OW4M12AC4-Faceplate.gfx

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	1756-OA16	(raC-5_00-SE) raC_Dvc_1756_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OA16-Faceplate.gfx
	1756-OA16I	(raC-5_00-SE) raC_Dvc_1756_OA16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OA16I-Faceplate.gfx
	1756-OA8E	(raC-5_00-SE) raC_Dvc_1756_OA8E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OA8E-Faceplate.gfx
	1756-OB16E	(raC-5_00-SE) raC_Dvc_1756_OB16E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16E-Faceplate.gfx
	1756-OB16I	(raC-5_00-SE) raC_Dvc_1756_OB16I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16I-Faceplate.gfx
	1756-OB16IEF	(raC-5_00-SE) raC_Dvc_1756_OB16IEF-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16IEF-Faceplate.gfx
	1756-OB16IEFS	(raC-5_00-SE) raC_Dvc_1756_OB16IEFS-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB16IEFS-Faceplate.gfx
	1756-OB32	(raC-5_00-SE) raC_Dvc_1756_OB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB32-Faceplate.gfx
	1756-OB8	(raC-5_00-SE) raC_Dvc_1756_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB8-Faceplate.gfx
	1756-OB8EI	(raC-5_00-SE) raC_Dvc_1756_OB8EI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB8EI-Faceplate.gfx
	1756-OB8I	(raC-5_00-SE) raC_Dvc_1756_OB8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OB8I-Faceplate.gfx
	1756-OC8	(raC-5_00-SE) raC_Dvc_1756_OC8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OC8-Faceplate.gfx
	1756-OG16	(raC-5_00-SE) raC_Dvc_1756_OG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OG16-Faceplate.gfx
	1756-ON8	(raC-5_00-SE) raC_Dvc_1756_ON8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_ON8-Faceplate.gfx
	1756-OV16E	(raC-5_00-SE) raC_Dvc_1756_OV16E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OV16E-Faceplate.gfx
	1756-OV32E	(raC-5_00-SE) raC_Dvc_1756_OV32E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OV32E-Faceplate.gfx
	1756-OA8	(raC-5_03-SE) raC_Dvc_1756_OA8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OA8-Faceplate.gfx
	1756-OB16IS	(raC-5_02-SE) raC_Dvc_1756_OB16IS-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OB16IS-Faceplate.gfx
	1756-OH8I	(raC-5_02-SE) raC_Dvc_1756_OH8I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OH8I-Faceplate.gfx
	1756-OW16I	(raC-5_02-SE) raC_Dvc_1756_OW16I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OW16I-Faceplate.gfx
	1756-OX8I	(raC-5_02-SE) raC_Dvc_1756_OX8I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OX8I-Faceplate.gfx
1769	1769-OA16	(raC-5_00-SE) raC_Dvc_1769_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OA16-Faceplate.gfx
	1769-OA8	(raC-5_03-SE) raC_Dvc_1769_OA8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OA8-Faceplate.gfx
	1769-OB16	(raC-5_00-SE) raC_Dvc_1769_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB16-Faceplate.gfx
	1769-OB16P	(raC-5_00-SE) raC_Dvc_1769_OB16P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB16P-Faceplate.gfx
	1769-OB32	(raC-5_00-SE) raC_Dvc_1769_OB32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB32-Faceplate.gfx
	1769-OB32T	(raC-5_00-SE) raC_Dvc_1769_OB32T-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB32T-Faceplate.gfx
	1769-OB8	(raC-5_00-SE) raC_Dvc_1769_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OB8-Faceplate.gfx
	1769-OG16	(raC-5_00-SE) raC_Dvc_1769_OG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OG16-Faceplate.gfx
	1769-OV16	(raC-5_00-SE) raC_Dvc_1769_OV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OV16-Faceplate.gfx
	1769-OV32T	(raC-5_00-SE) raC_Dvc_1769_OV32T-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OV32T-Faceplate.gfx
	1769-OW16	(raC-5_00-SE) raC_Dvc_1769_OW16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OW16-Faceplate.gfx
	1769-OW8	(raC-5_00-SE) raC_Dvc_1769_OW8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OW8-Faceplate.gfx
	1769-OW8I	(raC-5_00-SE) raC_Dvc_1769_OW8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OW8I-Faceplate.gfx

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1794	1794-OA16	(raC-5_00-SE) raC_Dvc_1794_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OA16-Faceplate.gfx
	1794-OA8	(raC-5_00-SE) raC_Dvc_1794_OA8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OA8-Faceplate.gfx
	1794-OA8I	(raC-5_00-SE) raC_Dvc_1794_OA8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OA8I-Faceplate.gfx
	1794-OB16	(raC-5_00-SE) raC_Dvc_1794_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB16-Faceplate.gfx
	1794-OB16P	(raC-5_00-SE) raC_Dvc_1794_OB16P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB16P-Faceplate.gfx
	1794-OB32P	(raC-5_00-SE) raC_Dvc_1794_OB32P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB32P-Faceplate.gfx
	1794-OB8	(raC-5_00-SE) raC_Dvc_1794_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB8-Faceplate.gfx
	1794-OB8EP	(raC-5_00-SE) raC_Dvc_1794_OB8EP-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OB8EP-Faceplate.gfx
	1794-OC16	(raC-5_00-SE) raC_Dvc_1794_OC16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OC16-Faceplate.gfx
	1794-OG16	(raC-5_00-SE) raC_Dvc_1794_OG16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OG16-Faceplate.gfx
	1794-OM16	(raC-5_00-SE) raC_Dvc_1794_OM16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OM16-Faceplate.gfx
	1794-OM8	(raC-5_00-SE) raC_Dvc_1794_OM8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OM8-Faceplate.gfx
	1794-OV16	(raC-5_00-SE) raC_Dvc_1794_OV16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OV16-Faceplate.gfx
	1794-OV16P	(raC-5_00-SE) raC_Dvc_1794_OV16P-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OV16P-Faceplate.gfx
	1794-OV32	(raC-5_00-SE) raC_Dvc_1794_OV32-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OV32-Faceplate.gfx
	1794-OW8	(raC-5_00-SE) raC_Dvc_1794_OW8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OW8-Faceplate.gfx
5069	5069-OA16	(raC-5_00-ME) raC_Dvc_5069_OA16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OA16-Faceplate.gfx
	5069-OB16	(raC-5_00-ME) raC_Dvc_5069_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OB16-Faceplate.gfx
	5069-OB16F	(raC-5_00-ME) raC_Dvc_5069_OB16F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OB16F-Faceplate.gfx
	5069-OB8	(raC-5_00-ME) raC_Dvc_5069_OB8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OB8-Faceplate.gfx
	5069-OW16	(raC-5_00-ME) raC_Dvc_5069_OW16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OW16-Faceplate.gfx
	5069-OW4I	(raC-5_00-ME) raC_Dvc_5069_OW4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OW4I-Faceplate.gfx
	5069-OX4I	(raC-5_00-ME) raC_Dvc_5069_OX4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OX4I-Faceplate.gfx
5094	5094-OB16	(raC-5_00-SE) raC_Dvc_5094_OB16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_OB16-Faceplate.gfx
	5094-OA16	(raC-5_02-SE) raC_Dvc_5094_OA16-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_OA16-Faceplate.gfx
	5094-OB32	(raC-5_02-SE) raC_Dvc_5094_OB32-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_OB32-Faceplate.gfx
	5094-OB8	(raC-5_03-SE) raC_Dvc_5094_OB8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_OB8-Faceplate.gfx
	5094-OW8I	(raC-5_00-SE) raC_Dvc_5094_OW8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_OW8I-Faceplate.gfx
5032	5032-CFGB16M12DR, 5032-CFGB16M12P5DR, 5032-CFGB16M12M12LDR	(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_16Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_16Pt-Faceplate.gfx
		(raC-5_04-SE) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_8Pt-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5032_CFGB16M12xxxxxx_OUT_8Pt-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1719	raC_Dvc_1719IO_wDesc.vpd raC_Dvc_1719IO_wDesc.vpd	1719-OB2	raC_Dvc_1719-OB2_wDesc_FP
		1719-OB2L	raC_Dvc_1719-OB2L_wDesc_FP

Family	View Designer File	Module	View Designer Screen
1732E	raC_Dvc_1732IO_wDesc.vpd	1732E-OB16M12	raC_Dvc_1732E-OB16M12_wDesc_FP
		1732E-OB16M12R	raC_Dvc_1732E-OB16M12R_wDesc_FP
		1732E-OB8M8SR	raC_Dvc_1732E-OB8M8SR_wDesc_FP
1734	raC_Dvc_1734IO_wDesc.vpd	1734-OA2	raC_Dvc_1734-OA2_wDesc_FP
		1734-OA4	raC_Dvc_1734-OA4_wDesc_FP
		1734-OB2	raC_Dvc_1734-OB2_wDesc_FP
		1734-OB2E	raC_Dvc_1734-OB2E_wDesc_FP
		1734-OB2EP	raC_Dvc_1734-OB2EP_wDesc_FP
		1734-OB4	raC_Dvc_1734-OB4_wDesc_FP
		1734-OB4E	raC_Dvc_1734-OB4E_wDesc_FP
		1734-OB8	raC_Dvc_1734-OB8_wDesc_FP
		1734-OB8E	raC_Dvc_1734-OB8E_wDesc_FP
		1734-OV2E	raC_Dvc_1734-OV2E_wDesc_FP
		1734-OV4E	raC_Dvc_1734-OV4E_wDesc_FP
		1734-OV8E	raC_Dvc_1734-OV8E_wDesc_FP
		1734-OW2	raC_Dvc_1734-OW2_wDesc_FP
		1734-OW4	raC_Dvc_1734-OW4_wDesc_FP
		1734-OX2	raC_Dvc_1734-OX2_wDesc_FP
1738	raC_Dvc_1738IO_wDesc.vpd	1738-OA2M12AC3	raC_Dvc_1738-OA2M12AC3_wDesc_FP
		1738-OB16E19M23	raC_Dvc_1738-OB16E19M23_wDesc_FP
		1738-OB16E25DS	raC_Dvc_1738-OB16E25DS_wDesc_FP
		1738-OB16EM12	raC_Dvc_1738-OB16EM12_wDesc_FP
		1738-OB2EM12	raC_Dvc_1738-OB2EM12_wDesc_FP
		1738-OB2EPM12	raC_Dvc_1738-OB2EPM12_wDesc_FP
		1738-OB4EM12	raC_Dvc_1738-OB4EM12_wDesc_FP
		1738-OB4EM8	raC_Dvc_1738-OB4EM8_wDesc_FP
		1738-OB8EM12	raC_Dvc_1738-OB8EM12_wDesc_FP
		1738-OB8EM23	raC_Dvc_1738-OB8EM23_wDesc_FP
		1738-OB8EM8	raC_Dvc_1738-OB8EM8_wDesc_FP
		1738-OV4EM12	raC_Dvc_1738-OV4EM12_wDesc_FP
		1738-OW4M12	raC_Dvc_1738-OW4M12_wDesc_FP
		1738-OW4M12AC4	raC_Dvc_1738-OW4M12AC4_wDesc_FP

Family	View Designer File	Module	View Designer Screen
1756	raC_Dvc_1756IO_wDesc.vpd	1756-OA16	raC_Dvc_1756-OA16_wDesc_FP
		1756-OA16I	raC_Dvc_1756-OA16I_wDesc_FP
		1756-OA8E	raC_Dvc_1756-OA8E_wDesc_FP
		1756-OB16E	raC_Dvc_1756-OB16E_wDesc_FP
		1756-OB16I	raC_Dvc_1756-OB16I_wDesc_FP
		1756-OB16IEF	raC_Dvc_1756-OB16IEF_wDesc_FP
		1756-OB16IEFS	raC_Dvc_1756-OB16IEFS_wDesc_FP
		1756-OB32	raC_Dvc_1756-OB32_wDesc_FP
		1756-OB8	raC_Dvc_1756-OB8_wDesc_FP
		1756-OB8EI	raC_Dvc_1756-OB8EI_wDesc_FP
		1756-OB8I	raC_Dvc_1756-OB8I_wDesc_FP
		1756-OC8	raC_Dvc_1756-OC8_wDesc_FP
		1756-OG16	raC_Dvc_1756-OG16_wDesc_FP
		1756-OH8I	raC_Dvc_1756-OH8I_wDesc_FP
		1756-ON8	raC_Dvc_1756-ON8_wDesc_FP
		1756-OV16E	raC_Dvc_1756-OV16E_wDesc_FP
		1756-OV32E	raC_Dvc_1756-OV32E_wDesc_FP
		1756-OW16I	raC_Dvc_1756-OW16I_wDesc_FP
1756	raC_Dvc_1756IO_wDesc.vpd	1756-OX8I	raC_Dvc_1756-OX8I_wDesc_FP
1769	raC_Dvc_1769IO_wDesc.vpd	1769-OA16	raC_Dvc_1769-OA16_wDesc_FP
		1769-OA8	raC_Dvc_1769-OA8_wDesc_FP
		1769-OB16	raC_Dvc_1769-OB16_wDesc_FP
		1769-OB16P	raC_Dvc_1769-OB16P_wDesc_FP
		1769-OB32	raC_Dvc_1769-OB32_wDesc_FP
		1769-OB32T	raC_Dvc_1769-OB32T_wDesc_FP
		1769-OB8	raC_Dvc_1769-OB8_wDesc_FP
		1769-OG16	raC_Dvc_1769-OG16_wDesc_FP
		1769-OV16	raC_Dvc_1769-OV16_wDesc_FP
		1769-OV32T	raC_Dvc_1769-OV32T_wDesc_FP
		1769-OW16	raC_Dvc_1769-OW16_wDesc_FP
		1769-OW8	raC_Dvc_1769-OW8_wDesc_FP
		1769-OW8I	raC_Dvc_1769-OW8I_wDesc_FP

Family	View Designer File	Module	View Designer Screen
1794	raC_Dvc_1794IO_wDesc.vpd	1794-OA16	raC_Dvc_1794-OA16_wDesc_FP
		1794-OA8	raC_Dvc_1794-OA8_wDesc_FP
		1794-OA8I	raC_Dvc_1794-OA8I_wDesc_FP
		1794-OB16	raC_Dvc_1794-OB16_wDesc_FP
		1794-OB16P	raC_Dvc_1794-OB16P_wDesc_FP
		1794-OB32P	raC_Dvc_1794-OB32P_wDesc_FP
		1794-OB8	raC_Dvc_1794-OB8_wDesc_FP
		1794-OB8EP	raC_Dvc_1794-OB8EP_wDesc_FP
		1794-OC16	raC_Dvc_1794-OC16_wDesc_FP
		1794-OG16	raC_Dvc_1794-OG16_wDesc_FP
		1794-OM16	raC_Dvc_1794-OM16_wDesc_FP
		1794-OM8	raC_Dvc_1794-OM8_wDesc_FP
		1794-OV16	raC_Dvc_1794-OV16_wDesc_FP
		1794-OV16P	raC_Dvc_1794-OV16P_wDesc_FP
		1794-OV32	raC_Dvc_1794-OV32_wDesc_FP
		1794-OW8	raC_Dvc_1794-OW8_wDesc_FP
5069	raC_Dvc_5069IO_wDesc.vpd	5069-OA16	raC_Dvc_5069-OA16_wDesc_FP
		5069-OB16	raC_Dvc_5069-OB16_wDesc_FP
		5069-OB16F	raC_Dvc_5069-OB16F_wDesc_FP
		5069-OB8	raC_Dvc_5069-OB8_wDesc_FP
		5069-OW16	raC_Dvc_5069-OW16_wDesc_FP
		5069-OW4I	raC_Dvc_5069-OW4I_wDesc_FP
		5069-OX4I	raC_Dvc_5069-OX4I_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-OB16	raC_Dvc_5094-OB16_wDesc_FP
		5094-OA16	raC_Dvc_5094_OA16_wDesc_FP
		5094-OB32	raC_Dvc_5094_OB32_wDesc_FP
		5094-OB8	raC_Dvc_5094_OB8_wDesc_FP
		5094-OW8I	raC_Dvc_5094-OW8I_wDesc_FP
5032	raC_Dvc_5032IO_wDesc.vpd	5032-CFGB16M12DR, 5032-CFGB16M12P5DR, 5032-CFGB16M12M12LDR	raC_Dvc_5032_CFGB16M12xx_IN_16Pt_wDes_FP
			raC_Dvc_5032_CFGB16M12xx_IN_8Pt_Des_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1719	1719-OB2	(RA-LIB)_ACM_2.00_Module_Digital_1719-OB2_A_(5.3).HSL4
	1719-OB2L	(RA-LIB)_ACM_2.00_Module_Digital_1719-OB2L_A_(5.3).HSL4
1732E	1732E-OB16M12	(RA-LIB)_ACM_2.00_Module_Digital_1732E-OB16M12_A_(5.3).HSL4
	1732E-OB16M12R	(RA-LIB)_ACM_2.00_Module_Digital_1732E-OB16M12R_B_(5.3).HSL4
	1732E-OB8M8SR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-OB8M8SR_A_(5.3).HSL4
1734	1734-OA2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OA2_C_(5.3).HSL4
	1734-OA4	(RA-LIB)_ACM_2.00_Module_Digital_1734-OA4_C_(5.3).HSL4
	1734-OB2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2_C_(5.3).HSL4
	1734-OB2E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2E_C_(5.3).HSL4
	1734-OB2EP	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2EP_C_(5.3).HSL4
	1734-OB4	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB4_C_(5.3).HSL4
	1734-OB4E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB4E_C_(5.3).HSL4
	1734-OB8	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8_C_(5.2).HSL4
	1734-OB8E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8E_C_(5.3).HSL4
	1734-OV2E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV2E_C_(5.3).HSL4
	1734-OV4E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV4E_C_(5.3).HSL4
	1734-OV8E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV8E_C_(5.3).HSL4
	1734-OW2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OW2_C_(5.3).HSL4
	1734-OW4	(RA-LIB)_ACM_2.00_Module_Digital_1734-OW4_C_(5.3).HSL4
	1734-OX2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OX2_C_(5.3).HSL4
1738	1738-OA2M12AC3	(RA-LIB)_ACM_2.00_Module_Digital_1738-OA2M12AC3_A_(5.3).HSL4
	1738-OB16E19M23	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB16E19M23_A_(5.3).HSL4
	1738-OB16E25DS	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB16E25DS_A_(5.3).HSL4
	1738-OB16EM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB16EM12_A_(5.3).HSL4
	1738-OB2EM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB2EM12_A_(5.3).HSL4
	1738-OB2EPM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB2EPM12_A_(5.3).HSL4
	1738-OB4EM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB4EM12_A_(5.3).HSL4
	1738-OB4EM8	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB4EM8_A_(5.3).HSL4
	1738-OB8EM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB8EM12_A_(5.3).HSL4
	1738-OB8EM23	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB8EM23_A_(5.3).HSL4
	1738-OB8EM8	(RA-LIB)_ACM_2.00_Module_Digital_1738-OB8EM8_A_(5.3).HSL4
	1738-OV4EM12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OV4EM12_A_(5.3).HSL4
	1738-OW4M12	(RA-LIB)_ACM_2.00_Module_Digital_1738-OW4M12_A_(5.3).HSL4
	1738-OW4M12AC	(RA-LIB)_ACM_2.00_Module_Digital_1738-OW4M12AC_A_(5.3).HSL4

Family	Module	Application Code Manager File
1756	1756-OA16	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA16_(5.3).HSL4
	1756-OA16I	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA16I_(5.3).HSL4
	1756-OA8E	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA8E_(5.3).HSL4
	1756-OB16E	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16E_(5.3).HSL4
	1756-OB16I	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16I_(5.3).HSL4
	1756-OB16IEF	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16IEF_A_(5.3).HSL4
	1756-OB16IEFS	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16IEFS_A_(5.3).HSL4
	1756-OB32	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB32_(5.3).HSL4
	1756-OB8	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB8_(5.3).HSL4
	1756-OB8EI	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB8EI_(5.3).HSL4
	1756-OB8I	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB8I_(5.3).HSL4
	1756-OC8	(RA-LIB)_ACM_2.00_Module_Digital_1756-OC8_(5.3).HSL4
	1756-OG16	(RA-LIB)_ACM_2.00_Module_Digital_1756-OG16_(5.3).HSL4
	1756-ON8	(RA-LIB)_ACM_2.00_Module_Digital_1756-ON8_(5.3).HSL4
	1756-OV16E	(RA-LIB)_ACM_2.00_Module_Digital_1756-OV16E_A_(5.3).HSL4
	1756-OV32E	(RA-LIB)_ACM_2.00_Module_Digital_1756-OV32E_A_(5.3).HSL4
	1756-OA8	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA8_(5.3).HSL4
	1756-OH8I	(RA-LIB)_ACM_2.00_Module_Digital_1756-OH8I_(5.3).HSL4
	1756-OW16I	(RA-LIB)_ACM_2.00_Module_Digital_1756-OW16I_(5.3).HSL4
	1756-OX8I	(RA-LIB)_ACM_2.00_Module_Digital_1756-OX8I_(5.3).HSL4
1769	1769-OA16	(RA-LIB)_ACM_2.00_Module_Digital_1769-OA16_A_(5.3).HSL4
	1769-OA8	(RA-LIB)_ACM_2.00_Module_Digital_1769-OA8_B_(5.3).HSL4
	1769-OB16	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB16_B_(5.3).HSL4
	1769-OB16P	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB16P_B_(5.3).HSL4
	1769-OB32	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB32_A_(5.3).HSL4
	1769-OB32T	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB32T_A_(5.3).HSL4
	1769-OB8	(RA-LIB)_ACM_2.00_Module_Digital_1769-OB8_A_(5.3).HSL4
	1769-OG16	(RA-LIB)_ACM_2.00_Module_Digital_1769-OG16_A_(5.3).HSL4
	1769-OV16	(RA-LIB)_ACM_2.00_Module_Digital_1769-OV16_B_(5.3).HSL4
	1769-OV32T	(RA-LIB)_ACM_2.00_Module_Digital_1769-OV32T_A_(5.3).HSL4
	1769-OW16	(RA-LIB)_ACM_2.00_Module_Digital_1769-OW16_A_(5.3).HSL4
	1769-OW8	(RA-LIB)_ACM_2.00_Module_Digital_1769-OW8_B_(5.3).HSL4
	1769-OW8I	(RA-LIB)_ACM_2.00_Module_Digital_1769-OW8I_B_(5.3).HSL4

Family	Module	Application Code Manager File
1794	1794-OA16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA16_A_(5.3).HSL4
	1794-OA8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA8_A_(5.3).HSL4
	1794-OA8I	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA8I_A_(5.3).HSL4
	1794-OB16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16_A_(5.3).HSL4
	1794-OB16P	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16P_A_(5.3).HSL4
	1794-OB32P	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB32P_A_(5.3).HSL4
	1794-OB8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB8_A_(5.3).HSL4
	1794-OB8EP	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB8EP_A_(5.3).HSL4
	1794-OC16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OC16_A_(5.3).HSL4
	1794-OG16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OG16_A_(5.3).HSL4
	1794-OM16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OM16_A_(5.3).HSL4
	1794-OM8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OM8_A_(5.3).HSL4
	1794-OV16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV16_A_(5.3).HSL4
	1794-OV16P	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV16P_A_(5.3).HSL4
	1794-OV32	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV32_A_(5.3).HSL4
	1794-OW8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OW8_A_(5.3).HSL4
5069	5069-OA16	(RA-LIB)_ACM_2.00_Module_Digital_5069-OA16_A_(5.3).HSL4
	5069-OB16	(RA-LIB)_ACM_2.00_Module_Digital_5069-OB16_B_(5.3).HSL4
	5069-OB16F	(RA-LIB)_ACM_2.00_Module_Digital_5069-OB16F_B_(5.3).HSL4
	5069-OB8	(RA-LIB)_ACM_2.00_Module_Digital_5069-OB8_A_(5.3).HSL4
	5069-OW16	(RA-LIB)_ACM_2.00_Module_Digital_5069-OW16_B_(5.3).HSL4
	5069-OW4I	(RA-LIB)_ACM_2.00_Module_Digital_5069-OW4I_A_(5.3).HSL4
	5069-OX4I	(RA-LIB)_ACM_2.00_Module_Digital_5069-OX4I_A_(5.3).HSL4
5094	5094-OB16	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16_A_(5.3).HSL4
	5094-OB16XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16XT_A_(5.3).HSL4
	5094-OA16	(RA-LIB)_ACM_2.00_Module_Digital_5094-OA16_A_(5.3).HSL4
	5094-OA16XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-OA16XT_A_(5.3).HSL4
	5094-OB32	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB32_A_(5.3).HSL4
	5094-OB32XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB32XT_A_(5.3).HSL4
	5094-OB8	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB8_A_(5.3).HSL4
	5094-OB8XT	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB8XT_A_(5.3).HSL4
	5094-OW8I	(RA-LIB)_ACM_2.00_Module_Digital_5094-OW8I_A_(5.3).HSL4
	5094-OW8IXT	(RA-LIB)_ACM_2.00_Module_Digital_5094-OW8IXT_A_(5.3).HSL4
5032	5032-CFGB16M12DR, 5032-CFGB16M12P5DR, 5032-CFGB16M12M12LDR	(RA-LIB)_ACM_2.00_Module_Digital_5032-CFG16M12DR_A_(5.4).HSL4
		(RA-LIB)_ACM_2.00_Module_Digital_5032-CFGB16M12M12LDR_A_(5.4).HSL4
		(RA-LIB)_ACM_2.00_Module_Digital_5032-CFGB16M12P5DR_A_(5.4).HSL4

Graphic Symbols

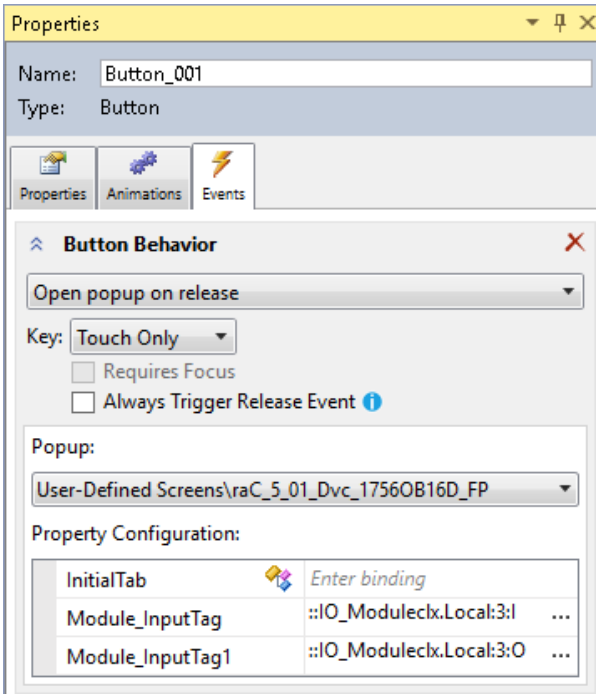
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_50xx	Use with 1719/5069/5015 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_DCOut_1794	Use with 1794 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_DCOut_5094	Use with 5094 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchACOut_1794	Use with 1794 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_5094	Use with 5094 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchInOut_Armor	Use with 1732E/1738 Digital Input/Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_Launch_Armor_OUT	Use with 5032 Digital Output Only Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I) and *Module_OutputTag* to the module's :O controller tag (e.g. ::PAC.Local:3:O).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_50xx	Use with 1719/5069/5015 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
GO_Launch_DCOut_1794	Use with 1794 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_DCOut_5094	Use with 5094 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_1794	Use with 1794 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_5094	Use with 5094 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchInOut_Armor	Use with 1732E/1738 Digital Input/Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_5032_CFGB 16M12_OUT16/OUT8	Use with 5032 Digital Output Only Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes for more information.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

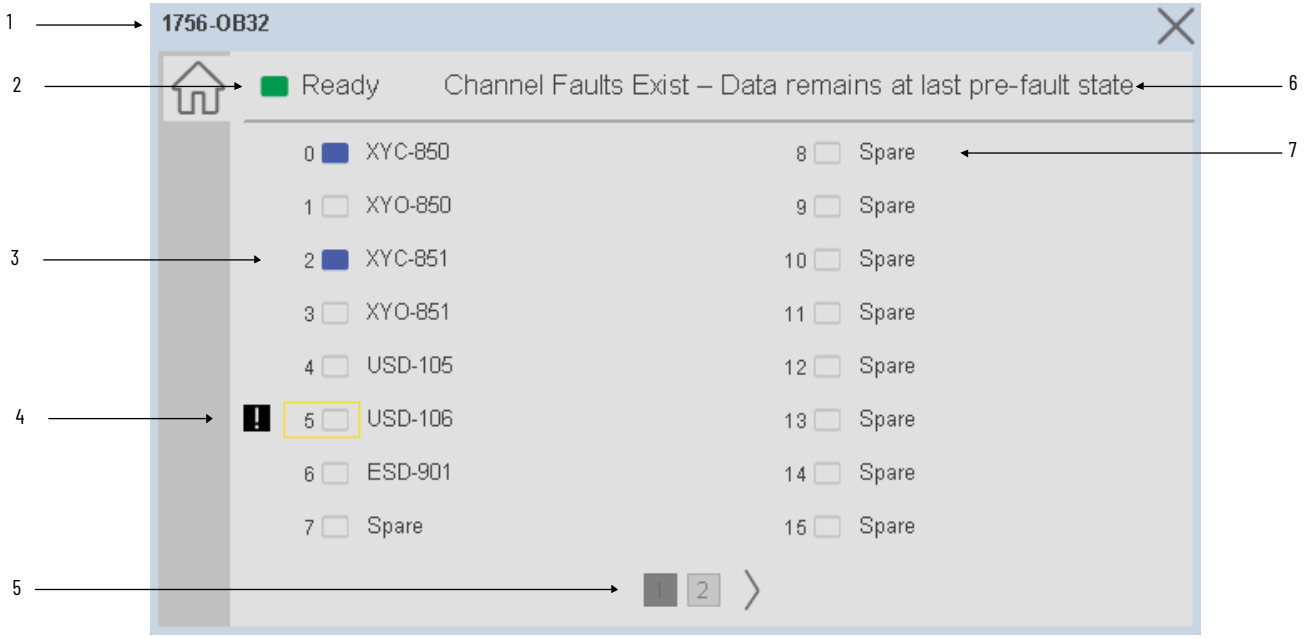
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

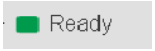
The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Output modules this is the individual O.Data.*x* BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:10:I.Fault	1756-OB32	DINT
R1756:10:I.Data	1756-OB32	DINT
R1756:10:I.Data.0	XYC-100	BOOL
R1756:10:I.Data.1	XYO-100	BOOL
R1756:10:I.Data.2	XYC-101	BOOL
R1756:10:I.Data.3	XYO-101	BOOL
R1756:10:I.Data.4	USD-305	BOOL
R1756:10:I.Data.5	Spare	BOOL
R1756:10:I.Data.6	Spare	BOOL

Home

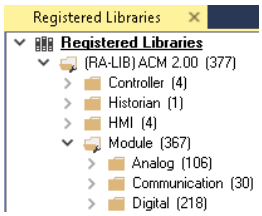
The main tab of the faceplate is the Home tab, which displays information regarding the I/O channels and faults. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	
	YELLOW = Module Fault/Not Ready	
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation; used for modules with more than 16 channels.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:O.Data.x.@Description	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-OH8I) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:O.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.

Parameter Name	Default Value	Description
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
NavigationButton	GraphicalButton	Select Navigation Button Type

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules
Launch Button	GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules
Launch Button	GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules
Launch Button	GO_LaunchACOut_50xx	Use with 1719/5069/5015 AC Output Modules
Launch Button	GO_Launch_DCOut_1794	Use with 1794 DC Output Modules
Launch Button	GO_Launch_DCOut_5094	Use with 5094 DC Output Modules
Launch Button	GO_LaunchACOut_1794	Use with 1794 AC Output Modules
Launch Button	GO_LaunchACOut_5094	Use with 5094 AC Output Modules
Launch Button	GO_LaunchIn_Armor	Use with 1732E/1738 Digital Input/Output Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Digital Output Diagnostics Modules

Overview

Digital Output diagnostic module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, status and detailed faults

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	1756-OA8D	(raC-5_03-SE) raC_Dvc_1756_OA8D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OA8D-Faceplate.gfx
	1756-OB16D	(raC-5_01-SE) raC_Dvc_1756_OB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OB16D-Faceplate.gfx

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1794	1794-OB16D	(raC-5_01-SE) raC_Dvc_1794_OB16D-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1794_OB16D-Faceplate.gfx
1715	1715-OB8DE	(raC-5_03-SE) raC_Dvc_1715_OB8DE_Simplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OB8DE_Simplex-Faceplate.gfx
		(raC-5_03-SE) raC_Dvc_1715_OB8DE_Duplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OB8DE_Duplex-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1756	raC_Dvc_1756IO_wDesc.vpd	1756-OA8D	raC_Dvc_1756-OA8D_wDesc_FP
		1756-OB16D	raC_Dvc_1756-OB16D_wDesc_FP
1794	raC_Dvc_1794IO_wDesc.vpd	1794-OB16D	raC_Dvc_1794-OB16D_wDesc_FP
1715	raC_Dvc_1715IO_wDesc.vpd	1715-OB8DE	raC_Dvc_1715-OB8DE_Simplex_wDesc_FP
			raC_Dvc_1715-OB8DE_Duplex_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the */ApplicationCodeManagerLibraries/* folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1756	1756-OA8D	(RA-LIB)_ACM_2.00_Module_Digital_1756-OA8D_(5.3).HSL4
	1756-OB16D	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16D_(5.3).HSL4
1794	1794-OB16D	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16D_A_(5.3).HSL4
1715	1715-OB8DE	(RA-LIB)_ACM_2.00_Module_Digital_1715-OB8DE_A_(5.3).HSL4
1732E	1732E-OB16M12DR	(RA-LIB)_ACM_2.00_Module_Digital_1732E-OB16M12DR_B_(5.4).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used.

See Basic Launch Button Attributes section for details on configuration and indicators.

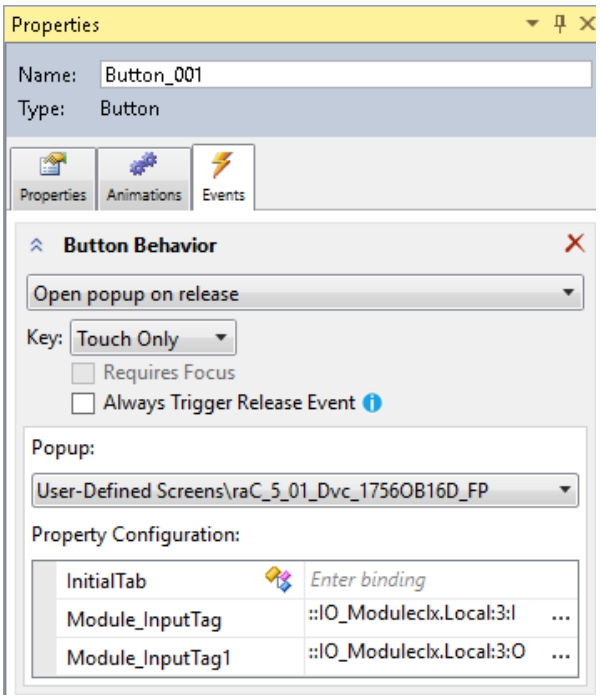
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_50xx	Use with 1719/5069/5015 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_DCOut_1794	Use with 1794 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_DCOut_5094	Use with 5094 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchACOut_1794	Use with 1794 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_5094	Use with 5094 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property*

Configurations are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I) and *Module_OutputTag* to the module's :O controller tag (e.g. ::PAC.Local:3:O).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_50xx	Use with 1719/5069/5015 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
GO_Launch_DCOut_1794	Use with 1794 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_DCOut_5094	Use with 5094 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_1794	Use with 1794 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_5094	Use with 5094 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes for more information.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

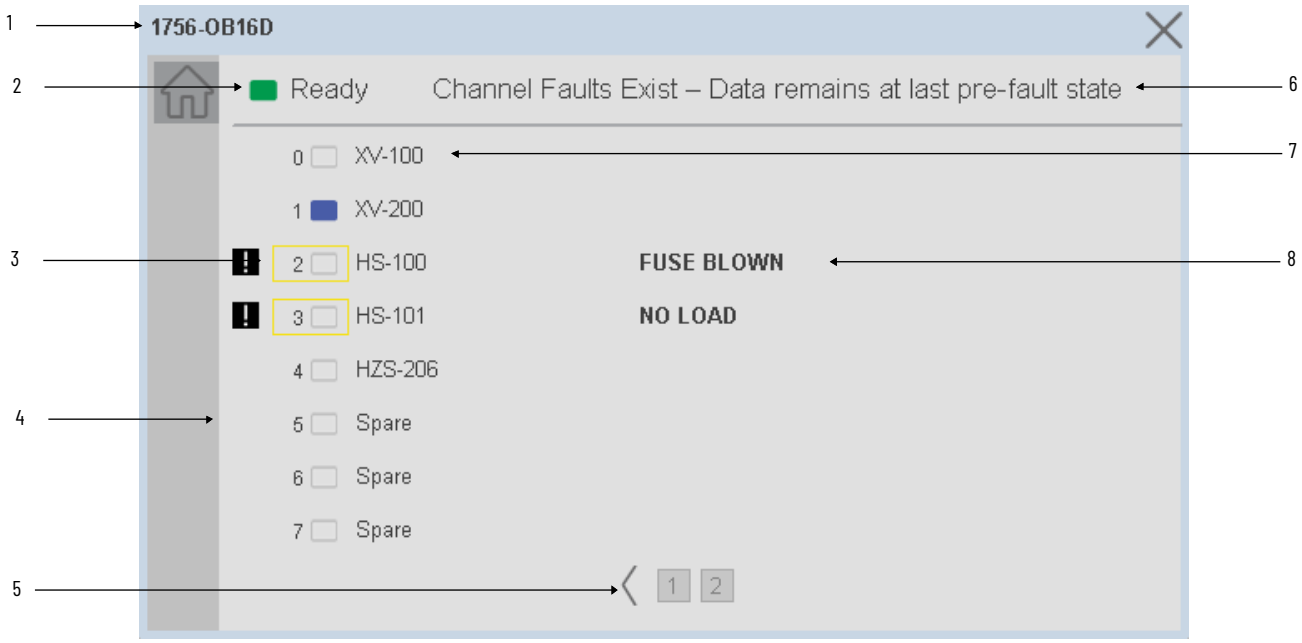
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Output modules this is the individual O.Data.*x* BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:10:I.Fault	1756-OB32	DINT
R1756:10:I.Data	1756-OB32	DINT
R1756:10:I.Data.0	XYC-100	BOOL
R1756:10:I.Data.1	XYO-100	BOOL
R1756:10:I.Data.2	XYC-101	BOOL
R1756:10:I.Data.3	XYO-101	BOOL
R1756:10:I.Data.4	USD-305	BOOL
R1756:10:I.Data.5	Spare	BOOL
R1756:10:I.Data.6	Spare	BOOL

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.

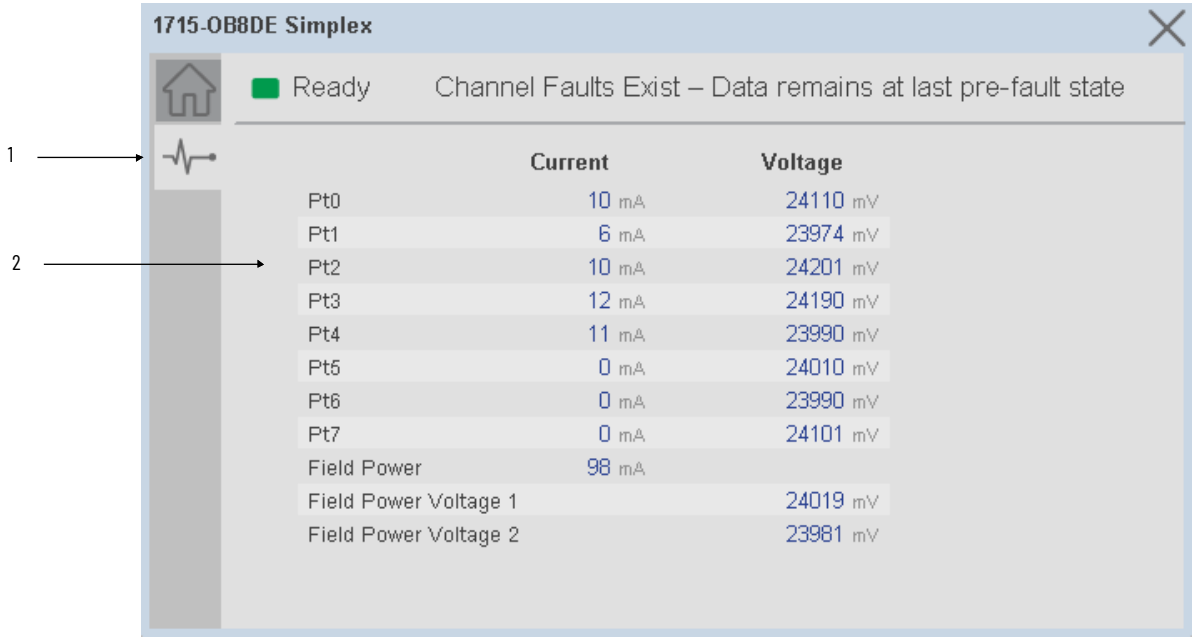


Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready

Item	Description	
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation; used for modules with more than 16 channels.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:0.Data.x.@Description	
8	Channel fault description - Output Verify Fault (1756/1794 only) - Field Power Loss (1756/1794 only) - Fuse Blown (1756/1794 only) - No Load - Channel Fault - Short Circuit (1715 only)	

Diagnostic Tab

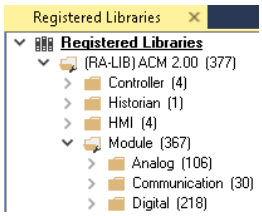
The Diagnostic tab is available only for 1715-OB8DE diagnostic modules. This tab displays current and voltage data for each point and the field power sources.



Item	Description
1	Diagnostic tab navigation button
2	Current (mA) and Voltage (mV) data.

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-OB16D) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:O.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
NavigationButton	GraphicalButton	Select Navigation Button Type

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules
Launch Button	GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules
Launch Button	GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules
Launch Button	GO_LaunchACOut_50xx	Use with 1719/5069/5015 AC Output Modules
Launch Button	GO_Launch_DCOut_1794	Use with 1794 DC Output Modules
Launch Button	GO_Launch_DCOut_5094	Use with 5094 DC Output Modules

Launch Button	GO_LaunchACOut_1794	Use with 1794 AC Output Modules
Launch Button	GO_LaunchACOut_5094	Use with 5094 AC Output Modules
Launch Button	GO_LaunchIn_Armor	Use with 1732E/1738 Digital Input/Output Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Digital Input/Output 17x4 Rack Optimized Modules

Overview

Digital Input/Output 1734/1794 Rack Optimized module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®.

These faceplates apply to 1734 POINT I/O and 1794 FLEX I/O modules configured as Rack Optimized connection mode. This simplifies the tag's data structure and does not include any diagnostic information. For modules configured as data connection mode, see the other sections that cover Digital Input Modules or Digital Output Modules.

HMI faceplates provide the following information:

- Module description
- Channel status and description

Faceplates for rack optimized digital input/output modules are provided based on I/O density (2/4/8/16/32 channel). The faceplates can be used with either 1734 or 1794 modules and either input or output modules as long as the channel density is correct.

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
1734 /1794	1734-IA2	(raC-5_03-SE) raC_Dvc_17x4_xx2-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_17x4_xx2-Faceplate.gfx
	1734-IB2		
	1734-IE2C		
	1734-IE2V		
	1734-IM2		
	1734-IV2		
	1734-OA2		
	1734-OB2		
	1734-OB2E		
	1734-OB2EP		
	1734-OE2C		
	1734-OE2V		
	1734-OV2E		
	1734-OW2		
	1734-OX2		
	1734-IV4	(raC-5_03-SE) raC_Dvc_17x4_xx4-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_17x4_xx4-Faceplate.gfx
	1734-IB4D		
	1734-IA4		
	1734-IB4		
	1734-IM4		
	1734-IE4C		
	1734-OA4		
	1734-OB4		
	1734-OB4E		
	1734-OE4C		
	1734-OV4E		
	1794-OE4		
	1734-OW4		
	1734-IB8	(raC-5_03-SE) raC_Dvc_17x4_xx8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_17x4_xx8-Faceplate.gfx
	1734-IE8C		
	1734-IV8		
	1734-OB8		
	1734-OB8E		
	1734-OV8E		
	1794-IA8		
	1794-IA8I		
	1794-IE8		
	1794-IM8		
	1794-OA8		
	1794-OA8I		
	1794-OB8		
	1794-OB8EP		
	1794-OM8		
	1794-OW8		

Family	Module	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
1794	1794-IA16	(raC-5_03-SE) raC_Dvc_17x4_xx16-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_17x4_xx16-Faceplate.gfx
	1794-IB16		
	1794-IC16		
	1794-IG16		
	1794-IH16		
	1794-IM16		
	1794-IV16		
	1794-OA16		
	1794-OB16		
	1794-OB16P		
	1794-OC16		
	1794-OG16		
	1794-OM16		
	1794-OV16		
	1794-OV16P		
	1794-IB10XOB6	(raC-5_02-SE) raC_Dvc_1794_IB10XOB6_Rack-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IB10XOB6_Rack-Faceplate.gfx
	1794-IB16XOB16P	(raC-5_02-SE) raC_Dvc_1794_IB16XOB16P_Rack-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IB16XOB16P_Rack-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1734	raC_Dvc_1734IO_wDesc.vpd	1734-IA2	raC_Dvc_17x4_xx2_wDesc_FP
		1734-IB2	
		1734-IE2C	
		1734-IE2V	
		1734-IM2	
		1734-IV2	
		1734-OA2	
		1734-OB2	
		1734-OB2E	
		1734-OB2EP	
		1734-OE2C	
		1734-OE2V	
		1734-OV2E	
		1734-OW2	
		1734-OX2	
		1734-IV4	raC_Dvc_17x4_xx4_wDesc_FP
		1734-IB4D	
		1734-IA4	
		1734-IB4	
		1734-IM4	
		1734-IE4C	
		1734-OA4	
		1734-OB4	
		1734-OB4E	
		1734-OE4C	
		1734-OV4E	
		1794-OE4	
		1734-OW4	
		1734-IB8	raC_Dvc_17x4_xx8_wDesc_FP
		1734-IE8C	
		1734-IV8	
		1734-OB8	
		1734-OB8E	
		1734-OV8E	

Family	View Designer File	Module	View Designer Screen
1794	raC_Dvc_1794IO_wDesc.vpd	1794-IA8	raC_Dvc_17x4_xx8_wDesc_FP
		1794-IA8I	
		1794-IB8	
		1794-IM8	
		1794-OA8	
		1794-OA8I	
		1794-OB8	
		1794-OB8EP	
		1794-OM8	
		1794-OW8	
		1794-IA16	raC_Dvc_17x4_xx16_wDesc_FP
		1794-IB16	
		1794-IC16	
		1794-IG16	
		1794-IH16	
		1794-IM16	
		1794-IV16	
		1794-OA16	
		1794-OB16	
		1794-OB16P	
		1794-OC16	
		1794-OG16	
		1794-OM16	
		1794-OV16	
		1794-OV16P	

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1734	1734-IB4D	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB4D_C_(5.3).HSL4
	1734-IA2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IA2_C_(5.3).HSL4
	1734-IA4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IA4_C_(5.3).HSL4
	1734-IB2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB2_C_(5.3).HSL4
	1734-IB4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB4_C_(5.3).HSL4
	1734-IB8	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB8_C_(5.3).HSL4
	1734-IE2C	(RA-LIB)_ACM_2.00_Module_Digital_1734-IE2C_C_(5.3).HSL4
	1734-IE2V	(RA-LIB)_ACM_2.00_Module_Digital_1734-IE2V_C_(5.3).HSL4
	1734-IE4C	(RA-LIB)_ACM_2.00_Module_Digital_1734-IE4C_C_(5.3).HSL4
	1734-IE8C	(RA-LIB)_ACM_2.00_Module_Digital_1734-IE8C_C_(5.3).HSL4
	1734-IM2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IM2_C_(5.3).HSL4
	1734-IM4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IM4_C_(5.3).HSL4
	1734-IV2	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV2_C_(5.3).HSL4
	1734-IV4	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV4_C_(5.3).HSL4
	1734-IV8	(RA-LIB)_ACM_2.00_Module_Digital_1734-IV8_C_(5.3).HSL4
	1734-OA2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OA2_C_(5.3).HSL4
	1734-OA4	(RA-LIB)_ACM_2.00_Module_Digital_1734-OA4_C_(5.3).HSL4
	1734-OB2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2_C_(5.3).HSL4
	1734-OB2E	((RA-LIB)_ACM_2.00_Module_Digital_1734-OB2E_C_(5.3).HSL4
	1734-OB2EP	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB2EP_C_(5.3).HSL4
	1734-OB4	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB4_C_(5.3).HSL4
	1734-OB4E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB4E_C_(5.3).HSL4
	1734-OB8	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8_C_(5.3).HSL4
	1734-OB8E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8E_C_(5.3).HSL4
	1734-OE2C	(RA-LIB)_ACM_2.00_Module_Digital_1734-OE2C_C_(5.3).HSL4
	1734-OE2V	(RA-LIB)_ACM_2.00_Module_Digital_1734-OE2V_C_(5.3).HSL4
	1734-OE4C	(RA-LIB)_ACM_2.00_Module_Digital_1734-OE4C_C_(5.3).HSL4
	1734-OV2E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV2E_C_(5.3).HSL4
	1734-OV4E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV4E_C_(5.3).HSL4
	1734-OV8E	(RA-LIB)_ACM_2.00_Module_Digital_1734-OV8E_C_(5.3).HSL4
	1734-OW2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OW2_C_(5.3).HSL4
	1734-OW4	(RA-LIB)_ACM_2.00_Module_Digital_1734-OW4_C_(5.3).HSL4
	1734-OX2	(RA-LIB)_ACM_2.00_Module_Digital_1734-OX2_C_(5.3).HSL4

Family	Module	Application Code Manager File
1794	1794-IA16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA16_A_(5.3).HSL4
	1794-IA8	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA8_A_(5.3).HSL4
	1794-IA8I	(RA-LIB)_ACM_2.00_Module_Digital_1794-IA8I_A_(5.3).HSL4
	1794-IB16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB16_A_(5.3).HSL4
	1794-IB32	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB32_A_(5.3).HSL4
	1794-IB8	(RA-LIB)_ACM_2.00_Module_Digital_1794-IB8_A_(5.3).HSL4
	1794-IC16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IC16_A_(5.3).HSL4
	1794-IG16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IG16_A_(5.3).HSL4
	1794-IH16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IH16_A_(5.3).HSL4
	1794-IM16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IM16_A_(5.3).HSL4
	1794-IM8	(RA-LIB)_ACM_2.00_Module_Digital_1794-IM8_A_(5.3).HSL4
	1794-IV16	(RA-LIB)_ACM_2.00_Module_Digital_1794-IV16_A_(5.3).HSL4
	1794-IV32	(RA-LIB)_ACM_2.00_Module_Digital_1794-IV32_A_(5.3).HSL4
	1794-OA16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA16_A_(5.3).HSL4
	1794-OA8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA8_A_(5.3).HSL4
	1794-OA8I	(RA-LIB)_ACM_2.00_Module_Digital_1794-OA8I_A_(5.3).HSL4
	1794-OB16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16_A_(5.3).HSL4
	1794-OB16P	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB16P_A_(5.3).HSL4
	1794-OB32P	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB32P_A_(5.3).HSL4
	1794-OB8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB8_A_(5.3).HSL4
	1794-OB8EP	(RA-LIB)_ACM_2.00_Module_Digital_1794-OB8EP_A_(5.3).HSL4
	1794-OC16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OC16_A_(5.3).HSL4
	1794-OG16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OG16_A_(5.3).HSL4
	1794-OM16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OM16_A_(5.3).HSL4
	1794-OM8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OM8_A_(5.3).HSL4
	1794-OV16	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV16_A_(5.3).HSL4
	1794-OV16P	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV16P_A_(5.3).HSL4
	1794-OV32	(RA-LIB)_ACM_2.00_Module_Digital_1794-OV32_A_(5.3).HSL4
	1794-OW8	(RA-LIB)_ACM_2.00_Module_Digital_1794-OW8_A_(5.3).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

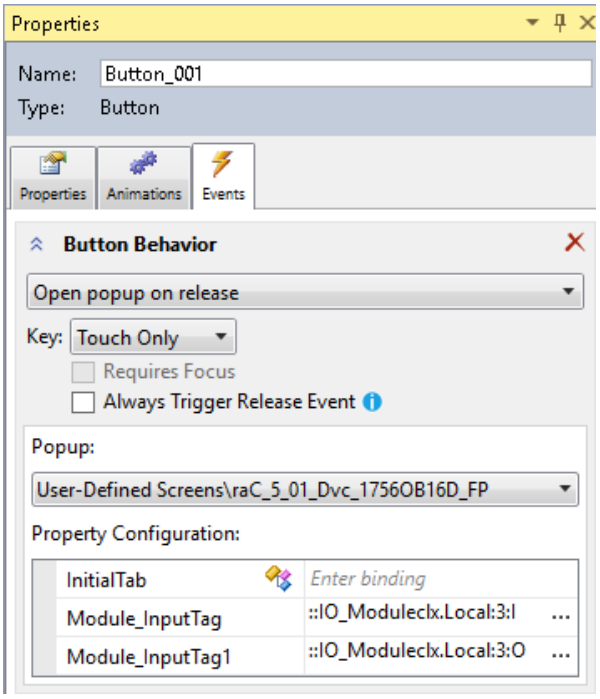
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Use with 1734/1794 Rack Optimized.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_Launch_DCIn_1794	Use with 1794 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACIn_1794	Use with 1794 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_DCOut_1794	Use with 1794 DC Input/ Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
	Use with 1794 DC Output Modules	#102: Faceplate Display Name #103: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_1794	Use with 1794 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_LaunchACIn_1734_Rack	Use with 1734 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_1734_Rack	Use with 1734 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_1734_Rack	Use with 1734 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_1734_Rack	Use with 1734 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchACIn_1794_Rack	Use with 1794 AC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_1794_Rack	Use with 1794 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchACOut_1794_Rack	Use with 1794 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_1794_Rack	Use with 1794 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I) and *Module_OutputTag* to the module's :O controller tag (e.g. ::PAC.Local:3:O).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	

Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
GO_Launch_DCIn_1794	Use with 1794 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchACIn_1794	Use with 1794 AC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_DCOut_1794	Use with 1794 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchACOut_1794	Use with 1794 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

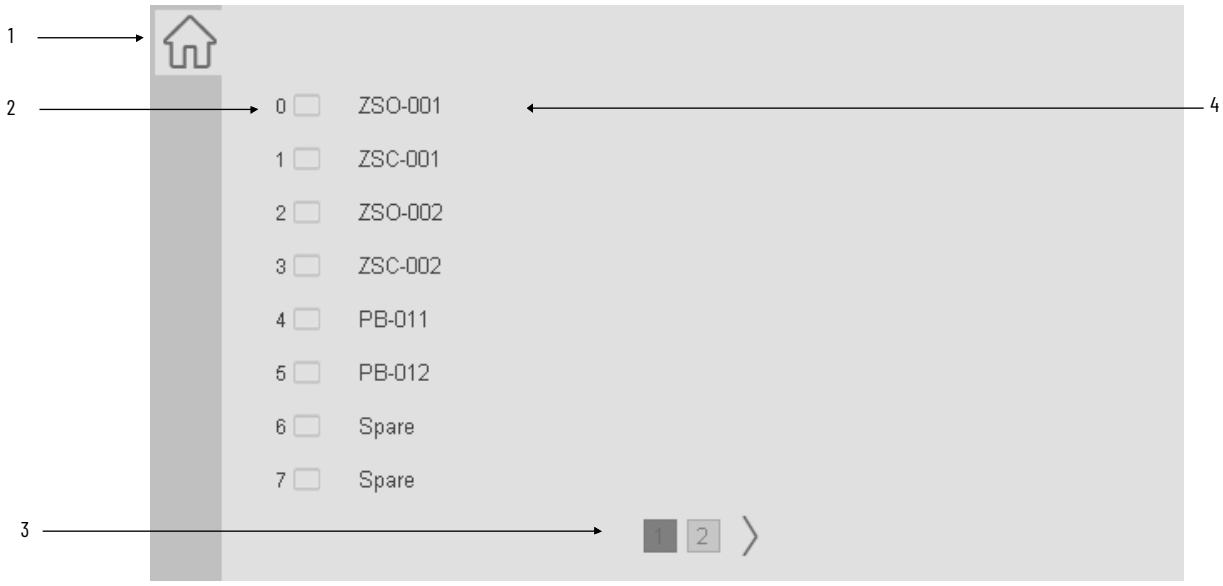
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Input modules this is the individual I.Data.*x* BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:8:I	1756-IB32	AB:1756_DI:I:0
R1756:8:I.Fault	1756-IB32	DINT
R1756:8:I.Data	1756-IB32	DINT
R1756:8:I.Data.0	PB-201	BOOL
R1756:8:I.Data.1	PB-202	BOOL
R1756:8:I.Data.2	PB-203	BOOL
R1756:8:I.Data.3	LSL-300	BOOL
R1756:8:I.Data.4	LSH-300	BOOL
R1756:8:I.Data.5	LSHH-300	BOOL

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
3	Page navigation; used for modules with more than 16 channels.	
4	Channel description. Module:I.Data.x.@Description	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.

Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1734-OB8) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
Connection	Data	Connection type: - Data - RackOptimized
NavigationButton	GraphicalButton	Select Navigation Button Type

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules
Launch Button	GO_LaunchACIn_17xx	Use with 1715/1734/1756/1769 AC Input Modules
Launch Button	GO_Launch_DCIn_1794	Use with 1794 DC Input Modules
Launch Button	GO_LaunchACIn_1794	Use with 1794 AC Input Modules
Launch Button	GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules
Launch Button	GO_LaunchACOut_17xx	Use with 1715/1734/1756/1769 AC Output Modules
Launch Button	GO_Launch_DCOut_1794	Use with 1794 DC Output Modules
Launch Button	GO_LaunchACOut_1794	Use with 1794 AC Output Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays

Name	Description	File Name	Extraction Path
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Analog Input Modules

Overview

Analog input module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, data and faults

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1715	1715-IF16	(raC-5_02-SE) raC_Dvc_1715_IF16_Simplex-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1715_IF16_Simplex-Faceplate.gfx
1719	1719-IR4B	(raC-5_00-SE) raC_Dvc_1719_IR4B-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IR4B-Faceplate.gfx
	1719-IF4HB	(raC-5_02-SE) raC_Dvc_1719_IF4HB-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1719_IF4HB-Faceplate.gfx
	1719-IT4B	(raC-5_00-SE) raC_Dvc_1719_IT4B-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1719_IT4B-Faceplate.gfx
1732E	1732E-IF4M12R	(raC-5_00-SE) raC_Dvc_1732E_IF4M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IF4M12R-Faceplate.gfx
	1732E-IR4IM12R	(raC-5_00-SE) raC_Dvc_1732E_IR4IM12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IR4IM12R-Faceplate.gfx
	1732E-IT4IM12R	(raC-5_00-SE) raC_Dvc_1732E_IT4IM12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_IT4IM12R-Faceplate.gfx
1734	1734-IR2	(raC-5_00-SE) raC_Dvc_1734_IR2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IR2-Faceplate.gfx
	1734-IE2C	(raC-5_00-SE) raC_Dvc_1734_IE2C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE2C-Faceplate.gfx
	1734-IE2V	(raC-5_00-SE) raC_Dvc_1734_IE2V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE2V-Faceplate.gfx
	1734-IE4C	(raC-5_00-SE) raC_Dvc_1734_IE4C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE4C-Faceplate.gfx
	1734_IE4S	(raC-5_01-SE) raC_Dvc_1734_IE4S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_IE4S_Safety-Faceplate.gfx
	1734-IE8C	(raC-5_00-SE) raC_Dvc_1734_IE8C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IE8C-Faceplate.gfx
	1734-IR2E	(raC-5_00-SE) raC_Dvc_1734_IR2E-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IR2E-Faceplate.gfx
	1734-IT2I	(raC-5_00-SE) raC_Dvc_1734_IT2I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_IT2I-Faceplate.gfx
	1734sc-IE2CH	(raC-5_02-SE) raC_Dvc_1734sc_IE2CH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_IE2CH-Faceplate.gfx
	1734sc-IE4CH	(raC-5_02-SE) raC_Dvc_1734sc_IE4CH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_IE4CH-Faceplate.gfx
	1734sc-IF4U	(raC-5_03-SE) raC_Dvc_1734sc_IF4U-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_IF4U-Faceplate.gfx
1738	1738-IE2CM12	(raC-5_00-SE) raC_Dvc_1738_IE2CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IE2CM12-Faceplate.gfx
	1738-IE2VM12	(raC-5_00-SE) raC_Dvc_1738_IE2VM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IE2VM12-Faceplate.gfx
	1738-IE4CM12	(raC-5_00-SE) raC_Dvc_1738_IE4CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IE4CM12-Faceplate.gfx
	1738-IR2M12	(raC-5_00-SE) raC_Dvc_1738_IR2M12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IR2M12-Faceplate.gfx
	1738-IT2IM12	(raC-5_00-SE) raC_Dvc_1738_IT2IM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_IT2IM12-Faceplate.gfx
1756	1756-IF16	(raC-5_02-SE) raC_Dvc_1756_IF16_Differential-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF16_Differential-Faceplate.gfx
		(raC-5_02-SE)raC_Dvc_1756_IF16_SingleEnded-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF16_SingleEnded-Faceplate.gfx
	1756-IF4FXOF2F	(raC-5_00-SE) raC_Dvc_1756_IF4FXOF2F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF4FXOF2F-Faceplate.gfx
	1756-IF6CIS	(raC-5_00-SE) raC_Dvc_1756_IF6CIS-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF6CIS-Faceplate.gfx
	1756-IF6I	(raC-5_00-SE) raC_Dvc_1756_IF6I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF6I-Faceplate.gfx
	1756-IF8	(raC-5_02-SE) raC_Dvc_1756_IF8_Differential-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF8_Differential-Faceplate.gfx
		(raC-5_02-SE) raC_Dvc_1756_IF8_SingleEnded-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF8_SingleEnded-Faceplate.gfx
	1756-IF8I	(raC-5_00-SE) raC_Dvc_1756_IF8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IF8I-Faceplate.gfx
	1756-IR12	(raC-5_00-SE) raC_Dvc_1756_IR12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IR12-Faceplate.gfx
	1756-IR6I	(raC-5_00-SE) raC_Dvc_1756_IR6I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IR6I-Faceplate.gfx
	1756-IRT8I	(raC-5_00-SE) raC_Dvc_1756_IRT8I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IRT8I-Faceplate.gfx
	1756-IT16	(raC-5_00-SE) raC_Dvc_1756_IT16-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IT16-Faceplate.gfx
	1756-IT6I	(raC-5_00-SE) raC_Dvc_1756_IT6I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_IT6I-Faceplate.gfx
	1756-IT6I2	(raC-5_02-SE) raC_Dvc_1756_IT6I2-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IT6I2-Faceplate.gfx
	1756sc-IF8U	(raC-5_03-SE) raC_Dvc_1756sc_IF8U-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756sc_IF8U-Faceplate.gfx

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1769	1769-IF16C	(raC-5_00-SE) raC_Dvc_1769_IF16C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF16C-Faceplate.gfx
	1769-IF16V	(raC-5_00-SE) raC_Dvc_1769_IF16V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF16V-Faceplate.gfx
	1769-IF4	(raC-5_00-SE) raC_Dvc_1769_IF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4-Faceplate.gfx
	1769-IF4FXOF2F	(raC-5_00-SE) raC_Dvc_1769_IF4FXOF2F-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4FXOF2F-Faceplate.gfx
	1769-IF4I	(raC-5_00-SE) raC_Dvc_1769_IF4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4I-Faceplate.gfx
	1769-IF4XOF2	(raC-5_00-SE) raC_Dvc_1769_IF4XOF2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF4XOF2-Faceplate.gfx
	1769-IF8	(raC-5_00-SE) raC_Dvc_1769_IF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IF8-Faceplate.gfx
	1769sc-IF8U	(raC-5_02-SE) raC_Dvc_1769sc_IF8U-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IF8U-Faceplate.gfx
	1769-IT6	(raC-5_00-SE) raC_Dvc_1769_IT6-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IT6-Faceplate.gfx
	1769sc-IT6I	(raC-5_02-SE) raC_Dvc_1769sc_IT6I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IT6I-Faceplate.gfx
	1769-IR6	(raC-5_00-SE) raC_Dvc_1769_IR6-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_IR6-Faceplate.gfx
	1769sc-IR6I	(raC-5_02-SE) raC_Dvc_1769sc_IR6I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IR6I-Faceplate.gfx
1794	1794-IE12	(raC-5_00-SE) raC_Dvc_1794_IE12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE12-Faceplate.gfx
	1794-IE4XOE2	(raC-5_00-SE) raC_Dvc_1794_IE4XOE2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE4XOE2-Faceplate.gfx
	1794-IE8	(raC-5_00-SE) raC_Dvc_1794_IE8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE8-Faceplate.gfx
	1794-IE8XOE4	(raC-5_00-SE) raC_Dvc_1794_IE8XOE4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IE8XOE4-Faceplate.gfx
	1794-IF2XOF2I	(raC-5_00-SE) raC_Dvc_1794_IF2XOF2I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IF2XOF2I-Faceplate.gfx
	1794-IF4I	(raC-5_00-SE) raC_Dvc_1794_IF4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IF4I-Faceplate.gfx
	1794-IR8	(raC-5_00-SE) raC_Dvc_1794_IR8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IR8-Faceplate.gfx
	1794-IRT8	(raC-5_00-SE) raC_Dvc_1794_IRT8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IRT8-Faceplate.gfx
	1794-IF4ICF	(raC-5_03-SE) raC_Dvc_1794_IF4ICF-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IF4ICF-Faceplate.gfx
	1794sc-IF8IU	(raC-5_03-SE) raC_Dvc_1794sc_IF8IU-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794sc_IF8IU-Faceplate.gfx
	1794sc-IRT8I	(raC-5_03-SE) raC_Dvc_1794sc_IRT8I-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794sc_IRT8I-Faceplate.gfx
	1794-IT8	(raC-5_00-SE) raC_Dvc_1794_IT8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_IT8-Faceplate.gfx
5069	5069-IF8	(raC-5_00-ME) raC_Dvc_5069_IF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IF8-Faceplate.gfx
	5069-IY4-IR	(raC-5_00-ME) raC_Dvc_5069_IY4-IR-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_IY4-IR-Faceplate.gfx
5094	5094-IF8	(raC-5_00-SE) raC_Dvc_5094_IF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5094_IF8-Faceplate.gfx
	5094-IY8_IR	(raC-5_02-SE) raC_Dvc_5094_IY8_IR-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IY8_IR-Faceplate.gfx
	5094-IY8_IT	(raC-5_02-SE) raC_Dvc_5094_IY8_IT-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_IY8_IT-Faceplate.gfx
	5094-IJ2I	(raC-5_04-SE) raC_Dvc_5094_IJ2I-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IJ2I-Faceplate.gfx
	5094-IJ2IS	(raC-5_04-SE) raC_Dvc_5094_IJ2IS-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IJ2IS-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1715	raC_Dvc_1715IO_wDesc.vpd	1715-IF16	raC_Dvc_1715-IF16_Simplex_wDesc_FP
1719	raC_Dvc_1719IO_wDesc.vpd	1719-IR4B	raC_Dvc_1719-IR4B_wDesc_FP
		1719-IT4B	raC_Dvc_1719-IT4B_wDesc_FP
		1719-IR4HB	raC_Dvc_1719-IR4HB_wDesc_FP
1732E	raC_Dvc_1732IO_wDesc.vpd	1732E-IF4M12R	raC_Dvc_1732E-IF4M12R_wDesc_FP
		1732E-IR4IM12R	raC_Dvc_1732E-IR4IM12R_wDesc_FP
		1732E-IT4IM12R	raC_Dvc_1732E-IT4IM12R_wDesc_FP
1734	raC_Dvc_1734IO_wDesc.vpd	1734-IE2C	raC_Dvc_1734-IE2C_wDesc_FP
		1734-IE2V	raC_Dvc_1734-IE2V_wDesc_FP
		1734-IE4C	raC_Dvc_1734-IE4C_wDesc_FP
		1734-IE8C	raC_Dvc_1734-IE8C_wDesc_FP
		1734-IR2	raC_Dvc_1734-IR2_wDesc_FP
		1734-IR2E	raC_Dvc_1734-IR2E_wDesc_FP
		1734-IE4S	raC_Dvc_1734-IE4S_Safety_wDesc_FP
		1734-IT2I	raC_Dvc_1734-IT2I_wDesc_FP
1738	raC_Dvc_1738IO_wDesc.vpd	1738-IR2M12	raC_Dvc_1738-IR2M12_wDesc_FP
		1738-IE2CM12	raC_Dvc_1738-IE2CM12_wDesc_FP
		1738-IE2VM12	raC_Dvc_1738-IE2VM12_wDesc_FP
		1738-IE4CM12	raC_Dvc_1738-IE4CM12_wDesc_FP
		1738-IT2IM12	raC_Dvc_1738-IT2IM12_wDesc_FP
1756	raC_Dvc_1756IO_wDesc.vpd	1756-IF16	raC_Dvc_1756-IF16_wDesc_FP
		1756-IF4FXOF2F	raC_Dvc_1756-IF4FXOF2F_wDesc_FP
		1756-IF6CIS	raC_Dvc_1756-IF6CIS_wDesc_FP
		1756-IF6I	raC_Dvc_1756-IF6I_wDesc_FP
		1756-IF8	raC_Dvc_1756-IF8_wDesc_FP
		1756-IF8I	raC_Dvc_1756-IF8I_wDesc_FP
		1756-IR12	raC_Dvc_1756-IR12_wDesc_FP
		1756-IR6I	raC_Dvc_1756-IR6I_wDesc_FP
		1756-IRT8I	raC_Dvc_1756-IRT8I_wDesc_FP
		1756sc-IF8U	raC_Dvc_1756sc-IF8U_wDesc_FP
		1756-IT16	raC_Dvc_1756-IT16_wDesc_FP
		1756-IT6I	raC_Dvc_1756-IT6I_wDesc_FP
1769	raC_Dvc_1769IO_wDesc.vpd	1769-IF16C	raC_Dvc_1769-IF16C_wDesc_FP
		1769-IF16V	raC_Dvc_1769-IF16V_wDesc_FP
		1769-IF4	raC_Dvc_1769-IF4_wDesc_FP
		1769-IF4FXOF2F	raC_Dvc_1769-IF4FXOF2F_wDesc_FP
		1769-IF4I	raC_Dvc_1769-IF4I_wDesc_FP
		1769-IF4XOF2	raC_Dvc_1769-IF4XOF2_wDesc_FP
		1769-IR6	raC_Dvc_1769-IR6_wDesc_FP
		1769-IR6I	raC_Dvc_1769sc_IR6I_wDesc_FP
		1769-IT6	raC_Dvc_1769-IT6_wDesc_FP
		1769-IT6I	raC_Dvc_1769sc_IT6I_wDesc_FP
		1769-IF8U	raC_Dvc_1769sc_IF8U_wDesc_FP
		1769-IF8	raC_Dvc_1769-IF8_wDesc_FP

Family	View Designer File	Module	View Designer Screen
1794	raC_Dvc_1794IO_wDesc.vpd	1794-IE12	raC_Dvc_1794-IE12_wDesc_FP
		1794-IE4XOE2	raC_Dvc_1794-IE4XOE2_wDesc_FP
		1794-IE8	raC_Dvc_1794-IE8_wDesc_FP
		1794-IE8XOE4	raC_Dvc_1794-IE8XOE4_wDesc_FP
		1794-IF2XOF2I	raC_Dvc_1794-IF2XOF2I_wDesc_FP
		1794-IF4I	raC_Dvc_1794-IF4I_wDesc_FP
		1794-IF4ICF	raC_Dvc_1794_IF4ICF_wDesc_FP
		1794sc-IF8IU	raC_Dvc_1794sc_IF8IU_wDesc_FP
		1794sc-IRT8I	raC_Dvc_1794sc_IRT8I_wDesc_FP
		1794-IR8	raC_Dvc_1794-IR8_wDesc_FP
		1794-IRT8	raC_Dvc_1794-IRT8_wDesc_FP
		1794-IT8	raC_Dvc_1794-IT8_wDesc_FP
5069	raC_Dvc_5069IO_wDesc.vpd	5069-IF8	raC_Dvc_5069-IF8_wDesc_FP
		5069-IY4-IR	raC_Dvc_5069-IY4-IR_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-IF8	raC_Dvc_5094-IF8_wDesc_FP
		5094_IY8	raC_Dvc_5094_IY8_IR_wDesc_FP
			raC_Dvc_5094_IY8_IT_wDesc_FP
		5094-IJ2I	raC_Dvc_5094_IJ2I_wDesc_FP
		5094-IJ2IS	raC_Dvc_5094_IJ2IS_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1715	1715-IF16	(RA-LIB)_ACM_2.00_Module_Analog_1715-IF16_A_(5.3).HSL4
1719	1719-IR4B	(RA-LIB)_ACM_2.00_Module_Analog_1719-IR4B_A_(5.3).HSL4
	1719-IF4HB	(RA-LIB)_ACM_2.00_Module_Analog_1719-IF4HB_A_(5.3).HSL4
	1719-IT4B	(RA-LIB)_ACM_2.00_Module_Analog_1719-IT4B_A_(5.3).HSL4
1732E	1732E-IF4M12R	(RA-LIB)_ACM_2.00_Module_Analog_1732E-IF4M12R_A_(5.3).HSL4
	1732E-IR4IM12R	(RA-LIB)_ACM_2.00_Module_Analog_1732E-IR4IM12R_A_(5.3).HSL4
	1732E-IT4IM12R	(RA-LIB)_ACM_2.00_Module_Analog_1732E-IT4IM12R_A_(5.3).HSL4

Family	Module	Application Code Manager File
1734	1734-IR2	(RA-LIB)_ACM_2.00_Module_Analog_1734-IR2_C_(5.3).HSL4
	1734-IE2C	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE2C_C_(5.3).HSL4
	1734-IE2V	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE2V_C_(5.3).HSL4
	1734-IE4C	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE4C_C_(5.3).HSL4
	1734-IE8C	(RA-LIB)_ACM_2.00_Module_Analog_1734-IE8C_C_(5.3).HSL4
	1734-IR2E	(RA-LIB)_ACM_2.00_Module_Analog_1734-IR2E_C_(5.3).HSL4
	1734-IT2I	(RA-LIB)_ACM_2.00_Module_Analog_1734-IT2I_C_(5.3).HSL4
	1734sc-IE4CH	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-IE4CH_A_(5.3).HSL4
	1734sc-IF4U	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-IF4U_A_(5.3).HSL4
	1734-IE4S	(RA-LIB)_ACM_2.00_Module_Digital_1734-IE4S_A_(5.3).HSL4
	1734sc-IE2CH	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-IE2CH_A_(5.3).HSL4
1738	1738-IR2M12	(RA-LIB)_ACM_2.00_Module_Analog_1738-IR2M12_A_(5.3).HSL4
	1738-IE2CM12	(RA-LIB)_ACM_2.00_Module_Analog_1738-IE2CM12_A_(5.3).HSL4
	1738-IE2VM12	(RA-LIB)_ACM_2.00_Module_Analog_1738-IE2VM12_A_(5.3).HSL4
	1738-IE4CM12	(RA-LIB)_ACM_2.00_Module_Analog_1738-IE4CM12_A_(5.3).HSL4
	1738-IT2IM12	(RA-LIB)_ACM_2.00_Module_Analog_1738-IT2IM12_A_(5.3).HSL4
1756	1756-IF16	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF16_B_(5.3).HSL4
	1756-IF4FXOF2F	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF4FXOF2F_(5.3).HSL4
	1756-IF6CIS	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF6CIS_A_(5.3).HSL4
	1756-IF6I	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF6I_(5.3).HSL4
	1756-IF8	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8_B_(5.3).HSL4
	1756-IF8I	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8I_B_(5.3).HSL4
	1756-IR12	(RA-LIB)_ACM_2.00_Module_Analog_1756-IR12_A_(5.3).HSL4
	1756-IR6I	(RA-LIB)_ACM_2.00_Module_Analog_1756-IR6I_(5.3).HSL4
	1756-IRT8I	(RA-LIB)_ACM_2.00_Module_Analog_1756-IRT8I_A_(5.3).HSL4
	1756-IT16	(RA-LIB)_ACM_2.00_Module_Analog_1756-IT16_A_(5.3).HSL4
	1756-IT6I2	(RA-LIB)_ACM_2.00_Module_Analog_1756-IT6I2_(5.3).HSL4
	1756sc-IF8U	(RA-LIB)_ACM_2.00_Module_Analog_1756sc-IF8U_A_(5.3).HSL4
	1756-IT6I	(RA-LIB)_ACM_2.00_Module_Analog_1756-IT6I_(5.3).HSL4
1769	1769-IF16C	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF16C_A_(5.3).HSL4
	1769-IF16V	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF16V_A_(5.3).HSL4
	1769-IF4	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4_B_(5.3).HSL4
	1769-IF4FXOF2F	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4FXOF2F_A_(5.3).HSL4
	1769-IF4I	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4I_A_(5.3).HSL4
	1769-IF4XOF2	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF4XOF2_A_(5.3).HSL4
	1769-IF8	(RA-LIB)_ACM_2.00_Module_Analog_1769-IF8_A_(5.3).HSL4
	1769sc-IF8U	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IF8U_A_(5.3).HSL4
	1769sc-IR6I	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IR6I_A_(5.3).HSL4
	1769-IR6	(RA-LIB)_ACM_2.00_Module_Analog_1769-IR6_A_(5.3).HSL4
	1769-IT6	(RA-LIB)_ACM_2.00_Module_Analog_1769-IT6_A_(5.3).HSL4
	1769sc-IT6I	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IT6I_A_(5.3).HSL4

Family	Module	Application Code Manager File
1794	1794-IE12	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE12_A_(5.3).HSL4
	1794-IE4XOE2	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE4XOE2_B_(5.3).HSL4
	1794-IE8	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE8_B_(5.3).HSL4
	1794-IE8XOE4	(RA-LIB)_ACM_2.00_Module_Analog_1794-IE8XOE4_A_(5.3).HSL4
	1794-IF2XOF2I	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF2XOF2I_A_(5.3).HSL4
	1794-IF4I	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF4I_A_(5.3).HSL4
	1794-IR8	(RA-LIB)_ACM_2.00_Module_Analog_1794-IR8_B_(5.3).HSL4
	1794-IRT8	(RA-LIB)_ACM_2.00_Module_Analog_1794-IRT8_A_(5.3).HSL4
	1794-IF4ICF	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF4ICF_A_(5.3).HSL4
	1794-IF8IHNF	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF8IHNF_A_(5.3).HSL4
	1794sc-IF8IU	(RA-LIB)_ACM_2.00_Module_Analog_1794sc-IF8IU_(5.3).HSL4
	1794sc-IRT8I	(RA-LIB)_ACM_2.00_Module_Analog_1794sc-IRT8I_(5.3).HSL4
	1794-IT8	(RA-LIB)_ACM_2.00_Module_Analog_1794-IT8_B_(5.3).HSL4
5069	5069-IF8	(RA-LIB)_ACM_2.00_Module_Analog_5069-IF8_A_(5.3).HSL4
	5069-IY4-IR	(RA-LIB)_ACM_2.00_Module_Analog_5069-IY4-IR_A_(5.3).HSL4
5094	5094-IF8	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8_A_(5.3).HSL4
	5094-IF8XT	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8XT_A_(5.3).HSL4
	5094-IY8	(RA-LIB)_ACM_2.00_Module_Analog_5094-IY8_B_(5.3).HSL4
	5094-IY8XT	(RA-LIB)_ACM_2.00_Module_Analog_5094-IY8XT_B_(5.3).HSL4
	5094-IJ2I	(RA-LIB)_ACM_2.00_Module_Analog_5094-IJ2I_A_(5.4).HSL4
	5094-IJ2IS	(RA-LIB)_ACM_2.00_Module_Analog_5094-IJ2IS_A_(5.4).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

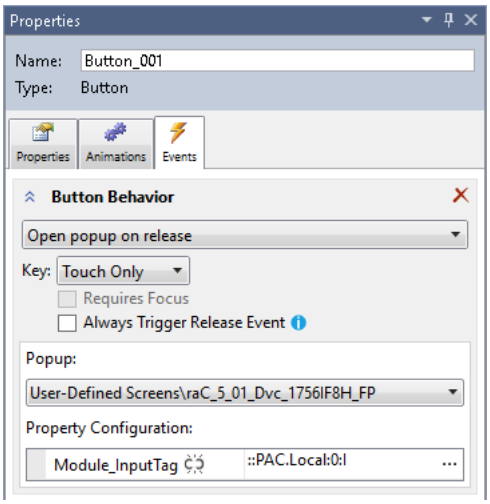
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchAI_50xx	Use with 1719/5069/5015 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_AI_1756	Use with 1756 Standard Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_Launch_AIHR_1756	Use with 1756 High-Resolution Analog Input Modules (-IF8I, -IRT8I, -IR12, -IT16)	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_Launch_AI_1794	Use with 1794 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_Launch_AI_5094	Use with 5094 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchIn_Armor	Use with 1732E/1738 Analog Input Only Modules	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchAI_50xx	Use with 1719/5069/5015 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_AI_1756	Use with 1756 Standard Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_AIHR_1756	Use with 1756 High-Resolution Analog Input Modules (-IF8I, -IRT8I, -IR12, -IT16)	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_AI_1794	Use with 1794 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_AI_5094	Use with 5094 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchIn_Armor	Use with 1732E/1738 Analog Input Only Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

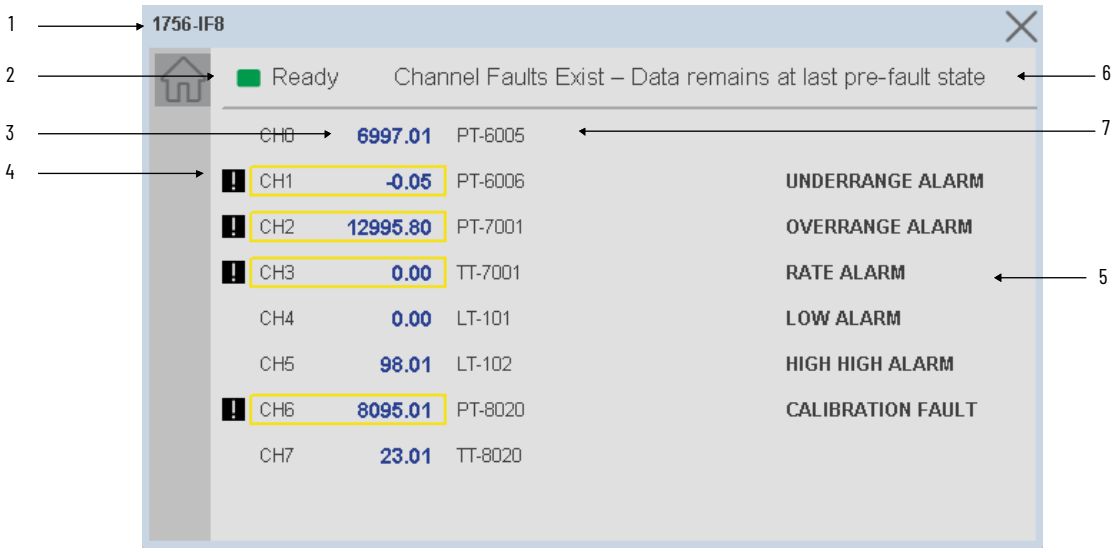
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Analog Input modules this is the individual I.Ch*x*Data REAL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

R1756:9:I.Ch0Data	PT-6005	REAL
R1756:9:I.Ch1Data	PT-6006	REAL
R1756:9:I.Ch2Data	PT-7001	REAL
R1756:9:I.Ch3Data	TT-7001	REAL
R1756:9:I.Ch4Data	LT-101	REAL
R1756:9:I.Ch5Data	LT-102	REAL
R1756:9:I.Ch6Data	PT-8020	REAL
R1756:9:I.Ch7Data	TT-8020	REAL

Home

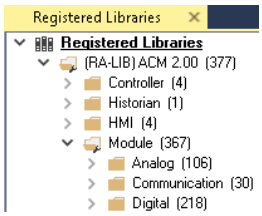
The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Data	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Channel Fault Type: - Rate Alarm - Overrange Alarm - Underrange Alarm - Calibration Fault - High High Alarm - High Alarm - Low Alarm - Low Low Alarm	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:I.Data.x.@Description	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-IF8I) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
InputRange		Sets the input Range type of the channels. 0=-10 to 10V, 1= 0 to 5 V, 2= 0 to 10V , 3= 0 to 20ma
OverrideDefaults	False	User can modify the H\L Signal and H\L Engineering values for the channels

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules
Launch Button	GO_LaunchAI_50xx	Use with 1719/5069/5015 Analog Input Modules
Launch Button	GO_Launch_AI_1756	Use with 1756 Standard Analog Input Modules
Launch Button	GO_Launch_AIHR_1756	Use with 1756 High-Resolution Analog Input Modules (-IF8I, -IRT8I, -IR12, -IT16)
Launch Button	GO_Launch_AI_1794	Use with 1794 Analog Input Modules
Launch Button	GO_Launch_AI_5094	Use with 5094 Analog Input Modules
Launch Button	GO_LaunchIn_Armor	Use with 1732E/1738 Analog Input Only Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Analog Input with HART Modules

Overview

Analog input with HART module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, data and faults
- HART multi-variable data and diagnostics

Note that 5094 HART modules have two modes:

- HART
- PlantPAx HART

Use the PlantPAx® faceplate and Application Code Manager configuration in PlantPAx® applications for use with the PlantPAx® Process Object Library.

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1715	1715-IF16	(raC-5_01-SE) raC_Dvc_1715_IF16_HARTSimplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IF16_HARTSimplex-Faceplate.gfx
1756	1756-IF16H	(raC-5_03-SE) raC_Dvc_1756_IF16H-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_IF16H-Faceplate.gfx
	1756-IF16IH	(raC-5_02-SE) raC_Dvc_1756_IF16IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF16IH-Faceplate.gfx
	1756-IF8IH	(raC-5_02-SE) raC_Dvc_1756_IF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_IF8IH-Faceplate.gfx
	1756-IF8H	(raC-5_03-SE) raC_Dvc_1756_IF8H-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_IF8H-Faceplate.gfx
1769	1769sc-IF4IH	(raC-5_02-SE) raC_Dvc_1769sc_IF4IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_IF4IH-Faceplate.gfx
1794	1794-IF8IH	(raC-5_02-SE) raC_Dvc_1794_IF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_IF8IH-Faceplate.gfx
	1794-IF8IHNF	(raC-5_03-SE) raC_Dvc_1794_IF8IHNF-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1794_IF8IHNF-Faceplate.gfx
5094	5094-IF8IH	(raC-5_04-SE) raC_Dvc_5094_IF8IH_HART-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IF8IH_HART-Faceplate.gfx
		(raC-5_04-SE) raC_Dvc_5094_IF8IH_PlantPAx-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_IF8IH_PlantPAx-Faceplate.gfx
5069	5069-IF4IH	(raC-5_04-SE) raC_Dvc_5069_IF4IH_HART-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5069_IF4IH_HART-Faceplate.gfx
		(raC-5_04-SE) raC_Dvc_5069_IF4IH_PlantPAx-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5069_IF4IH_PlantPAx-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	Module	View Designer File	View Designer Screen
1715	1715-IF16	raC_Dvc_1715IO_wDesc.vpd	raC_Dvc_1715-IF16_HARTSimplex_wDesc_FP
1756	1756-IF16H	raC_Dvc_1756IO_wDesc.vpd	raC_Dvc_1756-IF16H_wDesc_FP
	1756-IF16IH		raC_Dvc_1756_IF16IH_wDesc_FP
	1756-IF8IH		raC_Dvc_1756_IF8IH_wDesc_FP
	1756-IF8H		raC_Dvc_1756-IF8H_wDesc_FP
1769	1769sc-IF4IH	raC_Dvc_1769IO_wDesc.vpd	raC_Dvc_1769sc_IF4IH_wDesc_FP
1794	1794-IF8IH	raC_Dvc_1794IO_Input_wDesc.vpd	raC_Dvc_1794_IF8IH_wDesc_FP
			raC_Dvc_1794_IF8IHNF_wDesc_FP
5094	5094-IF8IH	raC_Dvc_5094IO_wDesc.vpd	raC_Dvc_5094-IF8IH_HART_wDesc_FP
			raC_Dvc_5094-IF8IH_PlantPAx_wDesc_FP
5069	5069-IF4IH	raC_Dvc_5069IO_wDesc.vpd	raC_Dvc_5069_IF4IH_HART_wDesc_FP
			raC_Dvc_5069_IF4IH_PlantPAx_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1715	1715-IF16	(RA-LIB)_ACM_2.00_Module_Analog_1715-IF16_B_(5.3).HSL4
1756	1756-IF16H	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF16H_A_(5.3).HSL4
	1756-IF16IH	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF16IH_A_(5.3).HSL4
	1756-IF8IH	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8IH_A_(5.3).HSL4
	1756-IF8H	(RA-LIB)_ACM_2.00_Module_Analog_1756-IF8H_A_(5.3).HSL4
1769	1769sc-IF4IH	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-IF4IH_A_(5.3).HSL4
1794	1794-IF8IH	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF8IH_A_(5.3).HSL4
	1794-IF8IHNF	(RA-LIB)_ACM_2.00_Module_Analog_1794-IF8IHNF_A_(5.3).HSL4
5094	5094-IF8IH	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8IH_A_(5.4).HSL4
	5094-IF8IHXT	(RA-LIB)_ACM_2.00_Module_Analog_5094-IF8IHXT_A_(5.4).HSL4
5069	5069-IF4IH	(RA-LIB)_ACM_2.00_Module_Analog_5069-IF4IH_A_(5.4).HSL4
	5069-IF4IHXT	(RA-LIB)_ACM_2.00_Module_Analog_5069-IF4IHXT_A_(5.4).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

Note:- If you are not utilizing all the channels of 5094-IF8IH/5069-IF4IH, you should follow the steps below for the unused channels.

Step:-1

The Dummy_HART tag should be created in the controller scope and the data type should be the same as the Hart module.

HART_1:I	{...}	{...}	AB:5000_HART4:I:0
HART_1:O	{...}	{...}	AB:5000_HART:O:0
HART_2:I	{...}	{...}	AB:5000_HART4:I:0
HART_2:O	{...}	{...}	AB:5000_HART:O:0
Dummy_HART	{...}	{...}	AB:5000_HART4:I:0

Step:-2

Whenever a channel is used for a Hart module, it must have a tag description. If the Hart module is not present on any one of the channel, you need to specify “Unused” in the channel description.e.g. If HART module is not used on channel no. 02 then add AENTR_5094:1:I.Ch02.Data.@Description = Unused.

AENTR_5094:1:I	{...}	{...}		AB:5000_...	5094-IF8IH
AENTR_5094:1:I.Ch00	{...}	{...}		CHANNE...	5094-IF8IH
AENTR_5094:1:I.Ch01	{...}	{...}		CHANNE...	5094-IF8IH
AENTR_5094:1:I.Ch02	{...}	{...}		CHANNE...	5094-IF8IH
AENTR_5094:1:I.Ch02.CalFault	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.Calibrating	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.Data	0.0		Float	REAL	Unused
AENTR_5094:1:I.Ch02.Fault	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.FieldPowerOff	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.HAlarm	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.HHAlarm	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.LAlarm	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.LLAlarm	0		Deci...	BOOL	5094-IF8IH

Step:-3

In the example below, Channels 0 and 1 are utilized for HART devices, hence we are passing HART device tags. Channels 2 to 7, however, remain unused, so we are passing Dummy_HART tags for those channels.

Name	Value	Tag	Description
#102	(raC-5_02-ME) raC_Dvc_5094_IF8IH_HART-Faceplate	...	Faceplate Display Name e.g. (raC-5_00-ME) raC_Dvc_XXXX_XXXX-Faceplate
#103	{::[PAC]AENTR_5094:1:I}	...	IO Module Input Tag e.g. {::[Topic Name]Local:1:I}
#105	{::[PAC]Hart_1:1:I}	...	Channel 0 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#106	{::[PAC]Hart_2:1:I}	...	Channel 1 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#107	{::[PAC]Dummy_HART}	...	Channel 2 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#108	{::[PAC]Dummy_HART}	...	Channel 3 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#109	{::[PAC]Dummy_HART}	...	Channel 4 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#110	{::[PAC]Dummy_HART}	...	Channel 5 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#111	{::[PAC]Dummy_HART}	...	Channel 6 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#112	{::[PAC]Dummy_HART}	...	Channel 7 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#155	5094-IF8IH	...	Custom button Label. Leave blank to use tag.@description
#120		...	Display's left position (e.g. 100)
#121		...	Display's top position (e.g. 100)

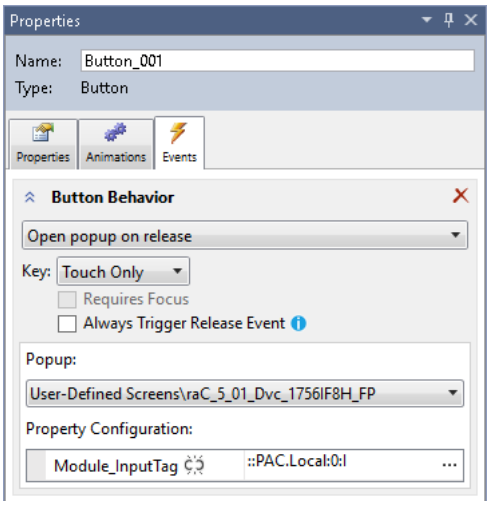
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_GotoDisplay2	Use with 5094-IF8IH & 5094-IF8IHXT Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #105: Channel 0 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #106: Channel 1 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #107: Channel 2 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #108: Channel 3 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #109: Channel 4 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #110: Channel 5 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #111: Channel 6 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #112: Channel 7 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #155: Custom button Label. Leave blank to use tag.@description #120: Display's left position (e.g. 100) #121: Display's top position (e.g. 100)	
GO_GotoDisplay6	Use with 1794-IF8IH & 1794-IF8IHNF Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchAI_50xx	Use with 1719/5069/5015 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_AI_1756	Use with 1756 Standard Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_Launch_AIHR_1756	Use with 1756 High-Resolution Analog Input Modules (-IF8I, -IRT8I, -IR12, -IT16)	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchAI_17xx1	Use with 1738 Hart Analog Input	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_Launch_AI_1794	Use with 1794 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input1 Tag #105: IO Module Input2 Tag #120: Display's left position #121: Display's top position	
GO_Launch_AI_5094	Use with 5094 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #105: Channel 0 HART/PlantPAx Input Tag #106: Channel 1 HART/PlantPAx Input Tag #107: Channel 2 HART/PlantPAx Input Tag #108: Channel 3 HART/PlantPAx Input Tag #109: Channel 4 HART/PlantPAx Input Tag #110: Channel 5 HART/PlantPAx Input Tag #111: Channel 6 HART/PlantPAx Input Tag #112: Channel 7 HART/PlantPAx Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchAIHart_50xx	Use with 5069 Analog Input HART Modules	#102: Faceplate Display Name #103: IO Module Input Tag #105: Channel 0 HART/PlantPAx Input Tag #106: Channel 1 HART/PlantPAx Input Tag #107: Channel 2 HART/PlantPAx Input Tag #108: Channel 3 HART/PlantPAx Input Tag #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchAI_50xx	Use with 1719/5069/5015 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_AI_1756	Use with 1756 Standard Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_AIHR_1756	Use with 1756 High-Resolution Analog Input Modules (-IF8I, -IRT8I, -IR12, -IT16)	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchAI_506xx	Use with 5069 Analog Input HART Modules (IF4IH, IF4IHXT)	InitialTab: 11 Channel_0_HART_PlantPAx_Input_Tag: Channel 0 Input Tag Channel_1_HART_PlantPAx_Input_Tag: Channel 1 Input Tag Channel_2_HART_PlantPAx_Input_Tag: Channel 2 Input Tag Channel_3_HART_PlantPAx_Input_Tag: Channel 3Input Tag Module_InputTag: IO Module Input Tag	
GO_LaunchAO_509xx	Use with 5094 Analog Input HART Modules (IF8IH, IF8IHXT)	InitialTab: 11 Channel_0_HART_PlantPAx_Input_Tag: Channel 0 Input Tag Channel_1_HART_PlantPAx_Input_Tag: Channel 1 Input Tag Channel_2_HART_PlantPAx_Input_Tag: Channel 2 Input Tag Channel_3_HART_PlantPAx_Input_Tag: Channel 3 Input Tag Channel_4_HART_PlantPAx_Input_Tag: Channel 4 Input Tag Channel_5_HART_PlantPAx_Input_Tag: Channel 5 Input Tag Channel_6_HART_PlantPAx_Input_Tag: Channel 6 Input Tag Channel_7_HART_PlantPAx_Input_Tag: Channel 7 Input Tag Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AI_1794	Use with 1794 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_AI_5094	Use with 5094 Analog Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

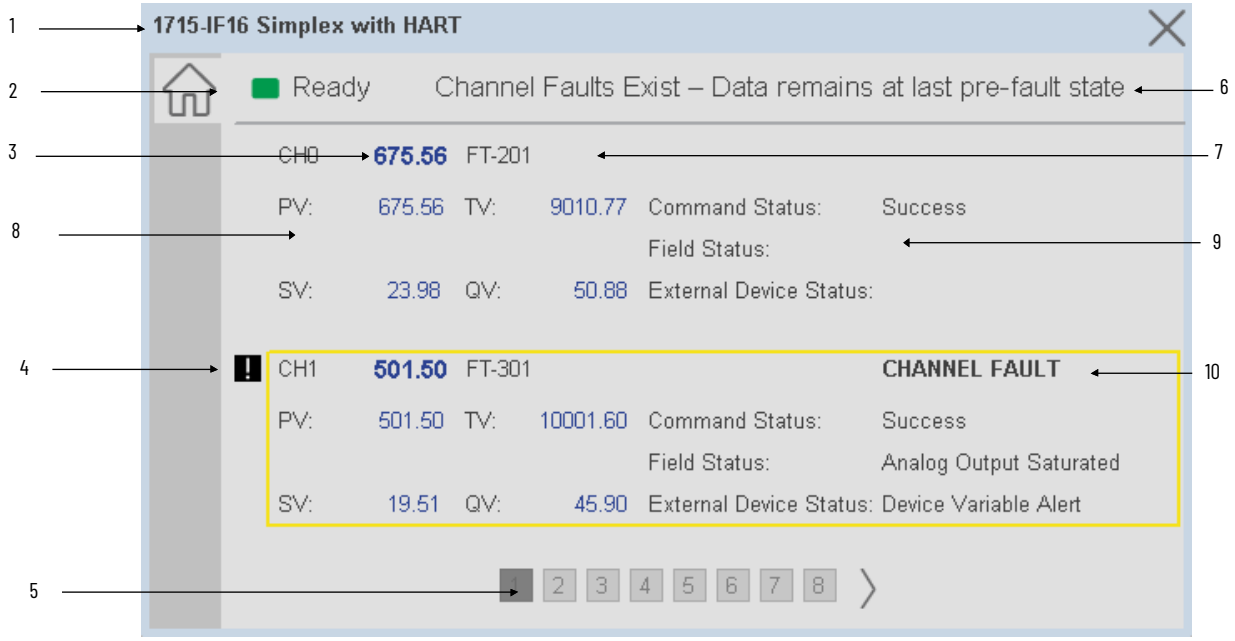
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Analog Input modules this is the individual I.Ch*x*Data REAL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

R1756:9:I.Ch0Data	PT-6005	REAL
R1756:9:I.Ch1Data	PT-6006	REAL
R1756:9:I.Ch2Data	PT-7001	REAL
R1756:9:I.Ch3Data	TT-7001	REAL
R1756:9:I.Ch4Data	LT-101	REAL
R1756:9:I.Ch5Data	LT-102	REAL
R1756:9:I.Ch6Data	PT-8020	REAL
R1756:9:I.Ch7Data	TT-8020	REAL

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.

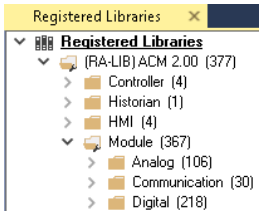


Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Data	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page Navigation. 2 channels shown per page.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:I.Data.x.@Description	

Item	Description
8	HART Data: PV: Primary Value SV: Secondary Value TV: Third/Tertiary Value FV: Fourth Value
9	HART Diagnostics (1715 modules only) Command Status: - Success - Busy - Command Not Implemented - Buffer Overflow - Reserved, Set to 0 - Longitudinal Parity Error - Framing Error - Overrun Error - Vertical Parity Error Field Status: - Primary Variable Out of Limits - Non-Prim Var. Out of Limits - Analog Output Saturated - Analog Output Current Fixed - More Status Available - Cold Start - Configuration Changed - Field Device Malfunction External Device Status: - Maintenance Required - Device Variable Alert - Critical Power Failure - Undefined
10	Channel Fault Type: - Maintenance Required - Configuration Changed - Device Variable Alert - Current Fault - HART Comm Fail - Broken Wire - HART Fault - Calibration Fault - Overrange - Underrange

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 5094-IF8IH) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Whenever a channel is used for a Hart module, it must have a tag description. If the Hart module is not present, you need to specify "Unused" in the channel description. Channel tag description is used in Studio 5000 and HMI faceplate.:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
FaceplateType	PlantPAxData	Selected Faceplate Type PlantPAxData or Data
ChxReference		Select the channel tag reference

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules
Launch Button	GO_LaunchAI_50xx	Use with 1719/5069/5015 Analog Input Modules
Launch Button	GO_Launch_AI_1756	Use with 1756 Standard Analog Input Modules
Launch Button	GO_Launch_AIHR_1756	Use with 1756 High-Resolution Analog Input Modules (-IF8I, -IRT8I, -IR12, -IT16)
Launch Button	GO_Launch_AI_5069	Use with 5069 Analog Input Modules
Launch Button	GO_Launch_AI_5094	Use with 5094 Analog Input Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays

Name	Description	File Name	Extraction Path
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Analog Output Modules

Overview

Analog Output module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, data and faults

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1715	1715-OF8I	(raC-5_03-SE) raC_Dvc_1715_OF8I_Simplex-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1715_OF8I_AnalogSimplex-Faceplate.gfx
		(raC-5_03-SE) raC_Dvc_1715_OF8I_Duplex-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1715_OF8I_AnalogDuplex-Faceplate.gfx
1732E	1732E-OF4M12R	(raC-5_00-SE) raC_Dvc_1732E_OF4M12R-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1732E_OF4M12R-Faceplate.gfx
1734	1734sc-OE2CIH	(raC-5_02-SE) raC_Dvc_1734sc_OE2CIH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1734sc_OE2CIH-Faceplate.gfx
	1734-OE2C	(raC-5_00-SE) raC_Dvc_1734_OE2C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OE2C-Faceplate.gfx
	1734-OE2V	(raC-5_00-SE) raC_Dvc_1734_OE2V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OE2V-Faceplate.gfx
	1734-OE4C	(raC-5_00-SE) raC_Dvc_1734_OE4C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1734_OE4C-Faceplate.gfx
1738	1738-OE2CM12	(raC-5_00-SE) raC_Dvc_1738_OE2CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OE2CM12-Faceplate.gfx
	1738-OE2VM12	(raC-5_00-SE) raC_Dvc_1738_OE2VM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OE2VM12-Faceplate.gfx
	1738-OE4CM12	(raC-5_00-SE) raC_Dvc_1738_OE4CM12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1738_OE4CM12-Faceplate.gfx
1756	1756-OF4	(raC-5_00-SE) raC_Dvc_1756_OF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF4-Faceplate.gfx
	1756-OF8	(raC-5_00-SE) raC_Dvc_1756_OF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF8-Faceplate.gfx
	1756-OF6CI	(raC-5_00-SE) raC_Dvc_1756_OF6CI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF6CI-Faceplate.gfx
	1756-OF6VI	(raC-5_00-SE) raC_Dvc_1756_OF6VI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1756_OF6VI-Faceplate.gfx
	1756-OF8H	(raC-5_01-SE) raC_Dvc_1756_OF8H-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OF8H-Faceplate.gfx
	1756-OF8IH	(raC-5_02-SE) raC_Dvc_1756_OF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OF8IH-Faceplate.gfx
	1756-OF8I	(raC-5_03-SE) raC_Dvc_1756_OF8I-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_OF8I-Faceplate.gfx
1769	1769-OF2	(raC-5_00-SE) raC_Dvc_1769_OF2-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF2-Faceplate.gfx
	1769-OF4	(raC-5_00-SE) raC_Dvc_1769_OF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF4-Faceplate.gfx
	1769-OF4CI	(raC-5_00-SE) raC_Dvc_1769_OF4CI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF4CI-Faceplate.gfx
	1769-OF4VI	(raC-5_00-SE) raC_Dvc_1769_OF4VI-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF4VI-Faceplate.gfx
	1769-OF8C	(raC-5_00-SE) raC_Dvc_1769_OF8C-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF8C-Faceplate.gfx
	1769-OF8V	(raC-5_00-SE) raC_Dvc_1769_OF8V-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1769_OF8V-Faceplate.gfx
1794	1794-OE12	(raC-5_00-SE) raC_Dvc_1794_OE12-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OE12-Faceplate.gfx
	1794-OE4	(raC-5_00-SE) raC_Dvc_1794_OE4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OE4-Faceplate.gfx
	1794-OF4I	(raC-5_00-SE) raC_Dvc_1794_OF4I-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_1794_OF4I-Faceplate.gfx
5069	5069-OF4	(raC-5_00-SE) raC_Dvc_5069_OF4-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OF4-Faceplate.gfx
	5069-OF8	(raC-5_00-SE) raC_Dvc_5069_OF8-Faceplate.gfx	(raC-5_00-ME) raC_Dvc_5069_OF8-Faceplate.gfx
5094	5094-OB8	(raC-5_03-SE) raC_Dvc_5094_OB8-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_5094_OB8-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1715	raC_Dvc_1715IO_wDesc .vpd	1715-OF8I	raC_Dvc_1715-OF8I_AnalogSimplex_wDesc_FP
			raC_Dvc_1715-OF8I_AnalogDuplex_wDesc_FP
1732E	raC_Dvc_1732IO_wDesc .vpd	1732E-OF4M12R	raC_Dvc_1732E-OF4M12R_wDesc_FP

Family	View Designer File	Module	View Designer Screen
1734	raC_Dvc_1734IO_wDesc.vpd	1734-OE2C	raC_Dvc_1734-OE2C_wDesc_FP
		1734-OE2V	raC_Dvc_1734-OE2V_wDesc_FP
		1734-OE4C	raC_Dvc_1734-OE4C_wDesc_FP
1738	raC_Dvc_1738IO_wDesc.vpd	1738-OE2CM12	raC_Dvc_1738-OE2CM12_wDesc_FP
		1738-OE2VM12	raC_Dvc_1738-OE2VM12_wDesc_FP
		1738-OE4CM12	raC_Dvc_1738-OE4CM12_wDesc_FP
1756	raC_Dvc_1756IO_wDesc.vpd	1756-OF4	raC_Dvc_1756-OF4_wDesc_FP
		1756-OF8	raC_Dvc_1756-OF8_wDesc_FP
		1756-OF8I	raC_Dvc_1756-OF8I_wDesc_FP
		1756-OF8H	raC_Dvc_1756-OF8H_wDesc_FP
		1756_OF8IH	raC_Dvc_1756_OF8IH_wDesc_FP
		1756-OF6CI	raC_Dvc_1756-OF6CI_wDesc_FP
		1756-OF6VI	raC_Dvc_1756-OF6VI_wDesc_FP
1769	raC_Dvc_1769IO_wDesc.vpd	1769-OF2	raC_Dvc_1769-OF2_wDesc_FP
		1769-OF4	raC_Dvc_1769-OF4_wDesc_FP
		1769-OF4CI	raC_Dvc_1769-OF4CI_wDesc_FP
		1769-OF4VI	raC_Dvc_1769-OF4VI_wDesc_FP
		1769-OF8C	raC_Dvc_1769-OF8C_wDesc_FP
		1769-OF8V	raC_Dvc_1769-OF8V_wDesc_FP
1794	raC_Dvc_1794IO_wDesc.vpd	1794-OF4I	raC_Dvc_1794-OF4I_wDesc_FP
		1794-OE12	raC_Dvc_1794-OE12_wDesc_FP
		1794-OE4	raC_Dvc_1794-OE4_wDesc_FP
5069	raC_Dvc_5069IO_wDesc.vpd	5069-OF4	raC_Dvc_5069-OF4_wDesc_FP
		5069-OF8	raC_Dvc_5069-OF8_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-OF8	raC_Dvc_5094-OF8_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Application Code Manager File
1715	(RA-LIB)_ACM_2.00_Module_Analog_1715-OF8I_A_(5.3).HSL4
1732E	(RA-LIB)_ACM_2.00_Module_Analog_1732E-OF4M12R_A_(5.3).HSL4
1734	(RA-LIB)_ACM_2.00_Module_Analog_1734sc-OE2CIH_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-OE2C_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-OE2V_C_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1734-OE4C_C_(5.3).HSL4
1738	(RA-LIB)_ACM_2.00_Module_Analog_1738-OE2CM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-OE2VM12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1738-OE4CM12_A_(5.3).HSL4
1756	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF4_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF8_B_(5.3)HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF6CI_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF6VI_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF8I_B_(5.3).HSL4
1769	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF2_B_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF4CI_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF4VI_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF8C_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1769-OF8V_A_(5.3).HSL4
1794	(RA-LIB)_ACM_2.00_Module_Analog_1794-OF4I_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-OE12_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_1794-OE4_B_(5.3).HSL4
5069	(RA-LIB)_ACM_2.00_Module_Analog_5069-OF4_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5069-OF8_A_(5.3).HSL4
5094	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8_A_(5.3).HSL4
	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8XT_A_(5.3).HSL4

Graphic Symbols

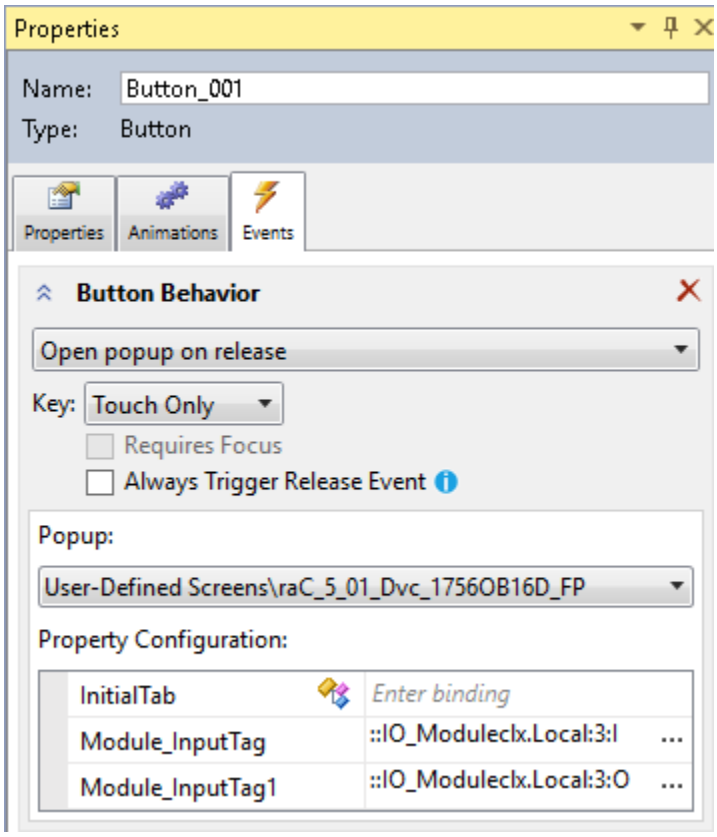
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchAO_50xx	Use with 1719/5069/5015 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_AO_1756	Use with 1756 Standard Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_AOHR_1756	Use with 1756 High-Resolution Analog Output Modules (-OF8I)	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_AO_1794	Use with 1794 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_AO_5094	Use with 5094 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchIn_Armor	Use with 1732E/1738 Analog Input/Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_OutputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchAO_50xx	Use with 1719/5069/5015 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AO_1756	Use with 1756 Standard Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AOHR_1756	Use with 1756 High-Resolution Analog Output Modules (-OF8I)	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AO_1794	Use with 1794 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AO_5094	Use with 5094 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchIn_Armor	Use with 1732E/1738 Analog Input/Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's Output tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

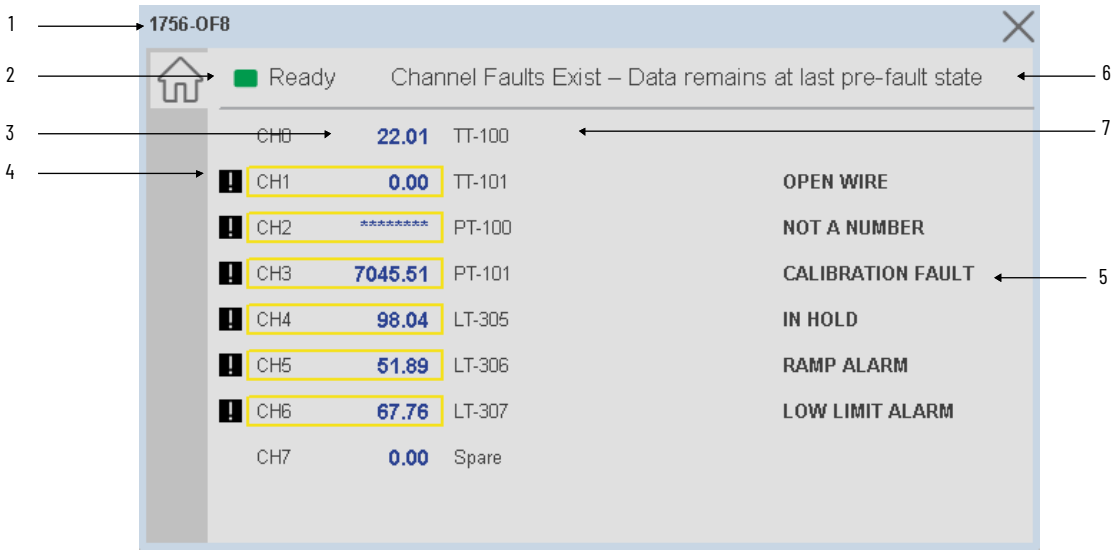
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Analog Output modules this is the individual O.Ch*x*Data REAL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:11:I.Ch0Data	PIC-301	REAL
R1756:11:I.Ch1Data	LIC-301	REAL
R1756:11:I.Ch2Data	TIC-505	REAL
R1756:11:I.Ch3Data	TIC-506	REAL
R1756:11:I.Ch4Data	Spare	REAL
R1756:11:I.Ch5Data	Spare	REAL
R1756:11:I.Ch6Data	Spare	REAL

Home

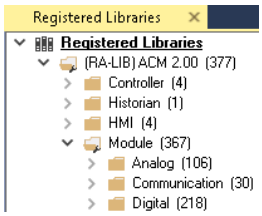
The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Data	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Channel Fault Type: - Ramp Alarm - Not A Number - Wire Off - Calibration Fault - In Hold - High Limit Alarm - Low Limit Alarm	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:O.Data.x.@Description	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-OF8) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
OverrideDefaults	True	User can modify the H\L Engineering value for the channels
LowSignal	0	Low signal input to module
HighSignal	20	High signal input to module
LowEngineering	0	Low scaled signal output from module
HighEngineering	20	High scaled signal output from module
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
CommFormat	Float Data	Select the communications format to be used
OutputRange	0	Sets the input Range type of the channels 0=-10V to 10V, 1=0 ma to 20ma

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules
Launch Button	GO_LaunchAO_50xx	Use with 1719/5069/5015 Analog Output Modules
Launch Button	GO_Launch_AO_1756	Use with 1756 Standard Analog Output Modules
Launch Button	GO_Launch_AOHR_1756	Use with 1756 High-Resolution Analog Output Modules (-OF8I)
Launch Button	GO_Launch_AO_1794	Use with 1794 Analog Output Modules
Launch Button	GO_Launch_AO_5094	Use with 5094 Analog Output Modules
Launch Button	GO_LaunchInOut_Armor	Use with 1732E/1738 Analog Input/Output Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Analog Output with HART Modules

Overview

Analog Output with HART module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, data and faults
- HART multi-variable data and diagnostics

Note that 5094 HART modules have two modes:

- HART
- PlantPAx HART
- Use the PlantPAx® faceplate and Application Code Manager configuration in PlantPAx® applications for use with the PlantPAx® Process Object Library.

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1715	1715-OF8I	(raC-5_03-SE) raC_Dvc_1715_OF8I_HARTSimplex-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1715_OF8I_HARTSimplex-Faceplate.gfx
		(raC-5_03-SE) raC_Dvc_1715_OF8I_HARTDuplex-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1715_OF8I_HARTDuplex-Faceplate.gfx
1756	1756-OF8H	(raC-5_01-SE) raC_Dvc_1756_OF8H-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OF8H-Faceplate.gfx
	1756-OF8IH	(raC-5_02-SE) raC_Dvc_1756_OF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1756_OF8IH-Faceplate.gfx
1769	1769sc-OF4IH	(raC-5_02-SE) raC_Dvc_1769sc_OF4IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1769sc_OF4IH-Faceplate.gfx
1794	1794-OF8IH	(raC-5_02-SE) raC_Dvc_1794_OF8IH-Faceplate.gfx	(raC-5_02-ME) raC_Dvc_1794_OF8IH-Faceplate.gfx
5094	5094-OF8IH	(raC-5_04-SE) raC_Dvc_5094_OF8IH_HART-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_OF8IH_HART-Faceplate.gfx
		(raC-5_04-SE) raC_Dvc_5094_OF8IH_PlantPAx-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_OF8IH_PlantPAx-Faceplate.gfx
5069	5069-IF4IH	(raC-5_04-SE) raC_Dvc_5069_OF4IH_HART-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5069_OF4IH_HART-Faceplate.gfx
		(raC-5_04-SE) raC_Dvc_5094_OF4IH_PlantPAx-Faceplate.gfx	(raC-5_04-ME) raC_Dvc_5094_OF4IH_PlantPAx-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1715	raC_Dvc_1715IO_wDesc.vpd	1715-OF8I	raC_Dvc_1715-OF8I_HARTSimplex_wDesc_FP
			raC_Dvc_1715-OF8I_HARTDuplex_wDesc_FP
1756	raC_Dvc_1756IO_wDesc.vpd	1756-OF8H	raC_Dvc_1756-OF8H_wDesc_FP
		1756-OF8IH	raC_Dvc_1756-OF8IH_wDesc_FP
1769	raC_Dvc_1769IO_wDesc.vpd	1769sc-OF4IH	raC_Dvc_1769sc_OF4IH_wDesc_FP
1794	raC_Dvc_1794IO_Output_wDesc.vpd	1794-OF8IH	raC_Dvc_1794_OF8IH_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-OF8IH	raC_Dvc_5094-OF8IH_HART_wDesc_FP
			raC_Dvc_5094-OF8IH_PlantPAx_wDesc_FP
5069	5069-OF4IH	raC_Dvc_5069IO_wDesc.vpd	raC_Dvc_5069_OF4IH_HART_wDesc_FP
			raC_Dvc_5069_OF4IH_PlantPAx_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1715	1715-OF8I	(RA-LIB)_ACM_2.00_Module_Analog_1715-OF8I_A_(5.3).HSL4
1756	1756-OF8H	(RA-LIB)_ACM_2.00_Module_Analog_1756-OF8H_B_(5.3).HSL4
1769	1769sc-OF4IH	(RA-LIB)_ACM_2.00_Module_Analog_1769sc-OF4IH_A_(5.3).HSL4
1794	1794-OF8IH	(RA-LIB)_ACM_2.00_Module_Analog_1794-OF8IH_A_(5.3).HSL4
5094	5094-OF8IH	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8IH_A_(5.3).HSL4
	5094-OF8IHXT	(RA-LIB)_ACM_2.00_Module_Analog_5094-OF8IHXT_A_(5.3).HSL4
5069	5069-OF4IH	(RA-LIB)_ACM_2.00_Module_Analog_5069-OF4IH_A_(5.4).HSL4
	5069-OF4IHXT	(RA-LIB)_ACM_2.00_Module_Analog_5069-OF4IHXT_A_(5.4).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

Note:- If you are not utilizing all the channels of 5094-OF8IH/5069-OF4IH, you should follow the steps below for the unused channels.

Step:-1

The Dummy_HART tag should be created in the controller scope and the data type should be the same as the Hart module.

HART_1:I	{...}	{...}	AB:5000_HART4:I:0
HART_1:O	{...}	{...}	AB:5000_HART:O:0
HART_2:I	{...}	{...}	AB:5000_HART4:I:0
HART_2:O	{...}	{...}	AB:5000_HART:O:0
Dummy_HART	{...}	{...}	AB:5000_HART4:I:0

Step:-2

Whenever a channel is used for a Hart module, it must have a tag description. If the Hart module is not present on any one of the channel, you need to specify “Unused” in the channel description.e.g. If HART module is not used on channel no. 02 then add AENTR_5094:1:I.Ch02.Data.@Description = Unused.

AENTR_5094:1:I	{...}	{...}		AB:5000_...	5094-IF8IH
AENTR_5094:1:I.Ch00	{...}	{...}		CHANNE...	5094-IF8IH
AENTR_5094:1:I.Ch01	{...}	{...}		CHANNE...	5094-IF8IH
AENTR_5094:1:I.Ch02	{...}	{...}		CHANNE...	5094-IF8IH
AENTR_5094:1:I.Ch02.CalFault	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.Calibrating	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.Data	0.0		Float	REAL	Unused
AENTR_5094:1:I.Ch02.Fault	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.FieldPowerOff	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.HAlarm	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.HHAlarm	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.LAlarm	0		Deci...	BOOL	5094-IF8IH
AENTR_5094:1:I.Ch02.LLAlarm	0		Deci...	BOOL	5094-IF8IH

Step:-3

In the example below, Channels 0 and 1 are utilized for HART devices, hence we are passing HART device tags. Channels 2 to 7, however, remain unused, so we are passing Dummy_HART tags for those channels.

Name	Value	Tag	Description
#102	(raC-5_02-ME) raC_Dvc_5094_OF8IH_HART-Faceplate	•••	Faceplate Display Name e.g. (raC-5_00-ME) raC_Dvc_XXXX_XXXX-Faceplate
#103	{::[PAC]AENTR_5094:1:I}	•••	IO Module Input Tag e.g. {::[Topic Name]Local:1:I}
#104	{::[PAC]AENTR_5094:1:O}	•••	IO Module Output Tag e.g. {::[Topic Name]Local:1:O}
#105	{::[PAC]Hart_1:1:I}	•••	Channel 0 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#106	{::[PAC]Hart_2:1:I}	•••	Channel 1 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#107	{::[PAC]Dummy_HART}	•••	Channel 2 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#108	{::[PAC]Dummy_HART}	•••	Channel 3 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#109	{::[PAC]Dummy_HART}	•••	Channel 4 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#110	{::[PAC]Dummy_HART}	•••	Channel 5 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#111	{::[PAC]Dummy_HART}	•••	Channel 6 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#112	{::[PAC]Dummy_HART}	•••	Channel 7 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag}
#155	5094-OF8IH	•••	Custom button Label. Leave blank to use tag.@description
#120		•••	Display's left position (e.g. 100)
#121		•••	Display's top position (e.g. 100)

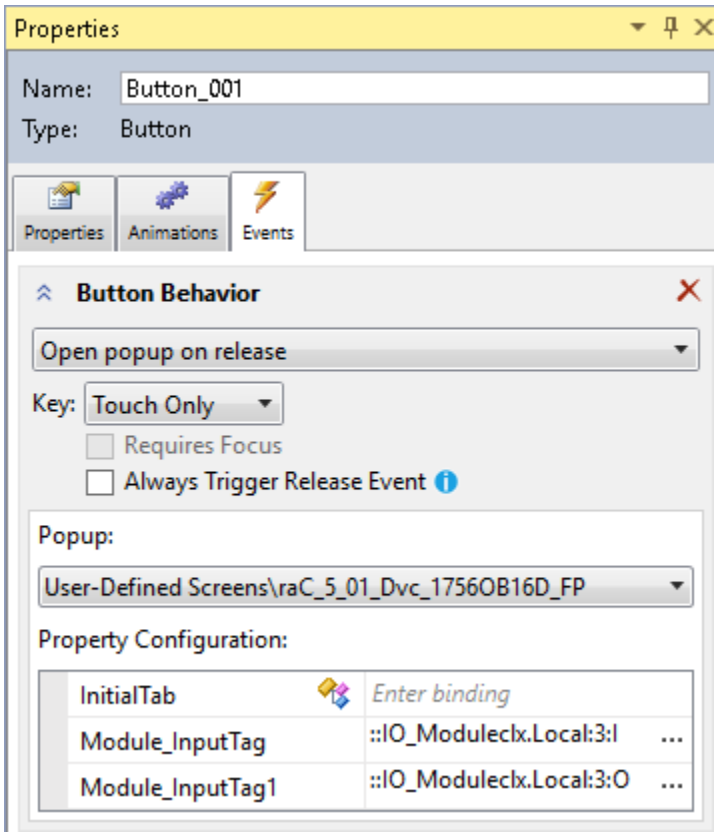
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_GotoDisplay3	Use with 5094-OF8IH & 5094-OF8IHXT Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Channel 0 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #106: Channel 1 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #107: Channel 2 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #108: Channel 3 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #109: Channel 4 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #110: Channel 5 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #111: Channel 6 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #112: Channel 7 HART/PlantPAx Input Tag, If channel is unused, add {::[Topic Name]Dummy_Hart} tag} #155: Custom button Label. Leave blank to use tag.@description #120: Display's left position (e.g. 100) #121: Display's top position (e.g. 100)	
GO_GotoDisplay7	Use with 1794-OF8IH Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: IO Module Input Tag #106: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchAO_50xx	Use with 1719/5069/5015 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_AO_1756	Use with 1756 Standard Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_AOHR_1756	Use with 1756 High-Resolution Analog Output Modules (-OF8I)	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchAO_17xx1	Use with 1734 Hart Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_Launch_AO_1794	Use with 1794 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_Launch_AO_5094	Use with 5094 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchAOHart_50xx	Use with 5069 Analog Output HART Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Channel 0 HART/PlantPAx Output Tag #106: Channel 1 HART/PlantPAx Output Tag #107: Channel 2 HART/PlantPAx Output Tag #108: Channel 3 HART/PlantPAx Output Tag #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_OutputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchAO_50xx	Use with 1719/5069/5015 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AO_1756	Use with 1756 Standard Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AOHR_1756	Use with 1756 High-Resolution Analog Output Modules (-OF8I)	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AO_1794	Use with 1794 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_AO_5094	Use with 5094 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's Output tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

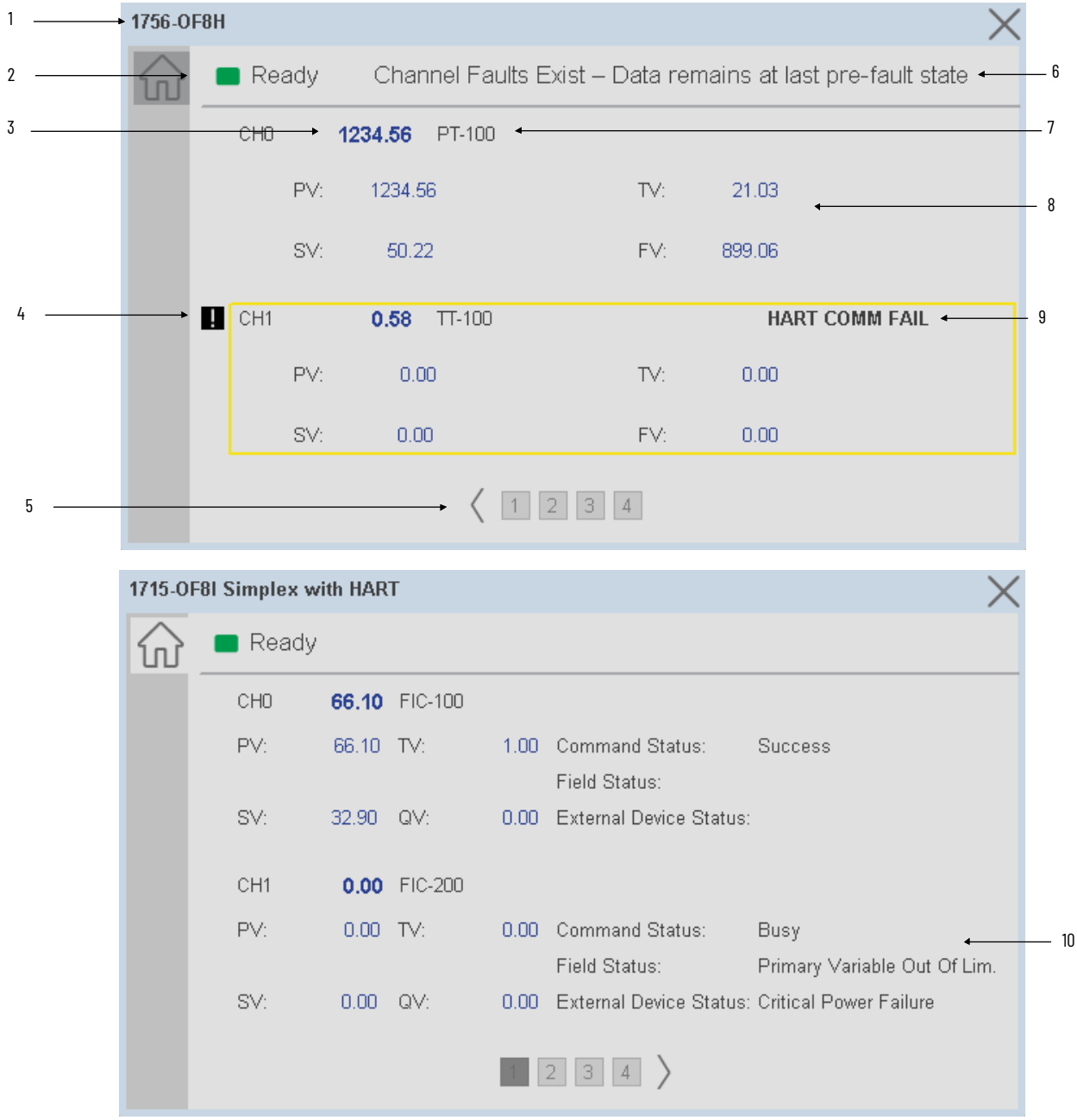
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Analog Output modules this is the individual O.Ch*x*Data REAL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:11:I.Ch0Data	PIC-301	REAL
R1756:11:I.Ch1Data	LIC-301	REAL
R1756:11:I.Ch2Data	TIC-505	REAL
R1756:11:I.Ch3Data	TIC-506	REAL
R1756:11:I.Ch4Data	Spare	REAL
R1756:11:I.Ch5Data	Spare	REAL
R1756:11:I.Ch6Data	Spare	REAL

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.

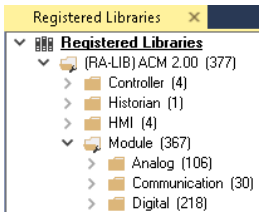


Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Data	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page Navigation. 2 channels shown per page.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	

Item	Description
7	Channel description. Module:O.Data.x.@Description
8	HART Data: PV: Primary Value SV: Secondary Value TV: Third/Tertiary Value FV: Fourth Value
9	Channel Fault Type: - Variable Out of Limits - Maintenance Required - Configuration Changed - Device Variable Alert - Current Saturated - HART Comm Failt - PV Out of Limits - Not a Number - Broken Wire - Current Fixed - Power Low - Fault Low Low - HART Fault - Ramp Alarm - Cold Start - Changed - Calibration Fault - Fault High High - Open Wire - In Hold
10	HART Diagnostics (1715 modules only) Command Status: - Success - Busy - Command Not Implemented - Buffer Overflow - Reserved, Set to 0 - Longitudinal Parity Error - Framing Error - Overrun Error - Vertical Parity Error Field Status: - Primary Variable Out of Limits - Non-Prim Var. Out of Limits - Analog Output Saturated - Analog Output Current Fixed - More Status Available - Cold Start - Configuration Changed - Field Device Malfunction External Device Status: - Maintenance Required - Device Variable Alert - Critical Power Failure - Undefined

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 5094-IF8IH) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Whenever a channel is used for a Hart module, it must have a tag description. If the Hart module is not present, you need to specify "Unused" in the channel description. Channel tag description is used in Studio 5000 and HMI faceplate.:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
FaceplateType	PlantPAxData	Selected Faceplate Type PlantPAxData or Data
ChXReference		The tag reference for the channel should be selected

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules
Launch Button	GO_LaunchAO_50xx	Use with 1719/5069/5015 Analog Output Modules
Launch Button	GO_Launch_AO_1756	Use with 1756 Standard Analog Output Modules
Launch Button	GO_Launch_AOHR_1756	Use with 1756 High-Resolution Analog Output Modules (-OF8I)
Launch Button	GO_Launch_AO_1794	Use with 1794 Analog Output Modules
Launch Button	GO_Launch_AO_5094	Use with 5094 Analog Output Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

1715 Duplex Modules

Overview

1715 Duplex I/O module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®.

The 1715 I/O family offers the ability to run each module as simplex or duplex (redundant) mode. Analog modules can also be configured as standard analog or as analog HART. For simplex mode, see the other sections in this manual for:

- Digital Input Diagnostic Modules
- Digital Output Diagnostic Modules
- Analog Input Modules
- Analog Input with HART Modules
- Analog Output Modules
- Analog Output with HART Modules

This section covers unique attributes of using the duplex faceplates along with duplex configured 1715 I/O modules. There are 6duplex faceplates for the following configurations:

- Duplex Digital Input Diagnostic Modules
- Duplex Digital Output Diagnostic Modules
- Duplex Analog Input Modules
- Duplex Analog Input with HART Modules
- Duplex Analog Output Modules
- Duplex Analog Output with HART Modules

In addition to the simplex version of these modules, these duplex faceplates offer the following information:

- Module A/B status and fault information
- Channel Module A/B fault information

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1715	1715-IB16D	(raC-5_01-SE) raC_Dvc_1715_IB16D_Duplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IB16D_Duplex-Faceplate.gfx
	1715-IF16	(raC-5_01-SE) raC_Dvc_1715_IF16_AnalogDuplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IF16_AnalogDuplex-Faceplate.gfx
	1715-IF16	(raC-5_01-SE) raC_Dvc_1715_IF16_HARTDuplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_IF16_HARTDuplex-Faceplate.gfx
	1715-OB8DE	(raC-5_03-SE) raC_Dvc_1715_OB8DE_Duplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OB8DE_Duplex-Faceplate.gfx
		(raC-5_03-SE) raC_Dvc_1715_OB8DE_Simplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OB8DE_Simplex-Faceplate.gfx
	1715-OF8I	(raC-5_03-SE) raC_Dvc_1715_OF8I_AnalogDuplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1715_OF8I_AnalogDuplex-Faceplate.gfx
		(raC-5_03-SE) raC_Dvc_1715_OF8I_AnalogSimplex-Faceplate	(raC-5_01-ME) raC_Dvc_1715_OF8I_AnalogSimplex-Faceplate
		(raC-5_03-SE) raC_Dvc_1715_OF8I_HARTDuplex-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1715_OF8I_HARTDuplex-Faceplate.gfx
		(raC-5_03-SE) raC_Dvc_1715_OF8I_HARTSimplex-Faceplate	(raC-5_03-ME) raC_Dvc_1715_OF8I_HARTSimplex-Faceplate

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1715	raC_Dvc_1715IO_wDesc.vpd	1715-IB16D	raC_Dvc_1715-IB16D_Duplex_wDesc_FP
		1715-IF16	raC_Dvc_1715-IF16_AnalogDuplex_wDesc_FP
		1715-IF16	raC_Dvc_1715-IF16_HARTDuplex_wDesc_FP
		1715-OB8DE	raC_Dvc_1715-OB8DE_Duplex_wDesc_FP
			raC_Dvc_1715-OB8DE_Simplex_wDesc_FP
		1715-OF8I	raC_Dvc_1715-OF8I_AnalogDuplex_wDesc_FP
			raC_Dvc_1715-OF8I_AnalogSimplex_wDesc_FP
			raC_Dvc_1715-OF8I_HARTDuplex_wDesc_FP
			raC_Dvc_1715-OF8I_HARTSimplex_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1715	1715-IF16	(RA-LIB)_ACM_2.00_Module_Analog_1715-IF16_A_(5.3).HSL4
	1715-OB8DE	(RA-LIB)_ACM_2.00_Module_Digital_1715-OB8DE_A_(5.3).HSL4
	1715-OF8I	(RA-LIB)_ACM_2.00_Module_Analog_1715-OF8I_A_(5.3).HSL4
	1715-IB16D	(RA-LIB)_ACM_2.00_Module_Digital_1715-IB16D_A_(5.3).HSL4

Graphic Symbols

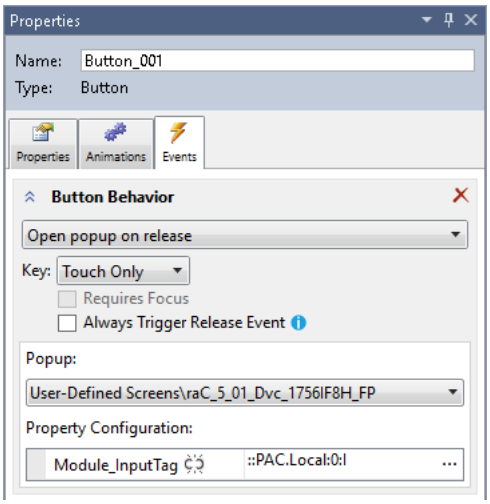
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Faceplate navigation button with string tag label. Use with input modules.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_GotoDisplay1	Faceplate navigation button with string tag label. Use with output modules.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text. Use with input modules.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
Button_002	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text. Use with output modules.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

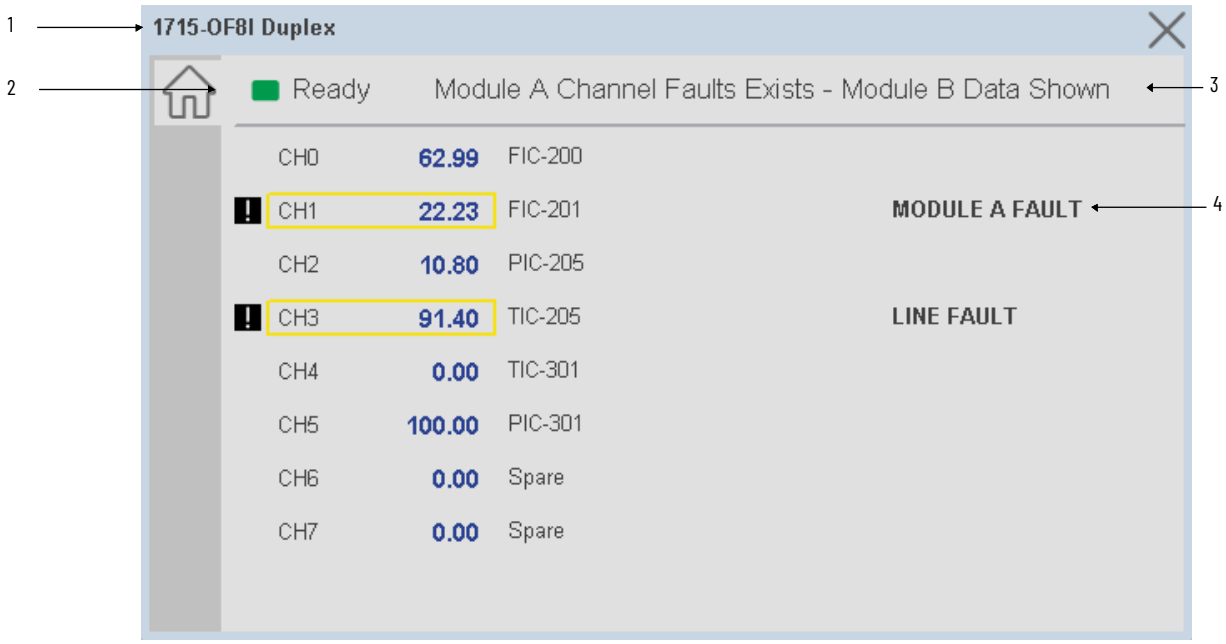
The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. This is the channel's individual I or O tags such as I.Data.*x* BOOL tags for Digital Inputs. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:8:I	1756-IB32	AB:1756_DI:I:0
R1756:8:I.Fault	1756-IB32	DINT
R1756:8:I.Data	1756-IB32	DINT
R1756:8:I.Data.0	PB-201	BOOL
R1756:8:I.Data.1	PB-202	BOOL
R1756:8:I.Data.2	PB-203	BOOL
R1756:8:I.Data.3	LSL-300	BOOL
R1756:8:I.Data.4	LSH-300	BOOL
R1756:8:I.Data.5	LSHH-300	BOOL

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.

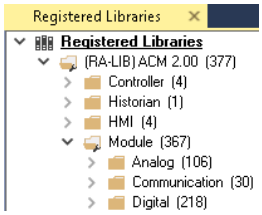
The faceplates for 1715 Duplex I/O modules are the same as other platform's I/O modules with the addition of duplex fault information. This section explains only the differences that are unique to duplex modules.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
4	Module/Channel Fault status text. May display the following: - Module A - Fault or module not present - Module B - Fault or module not present - Module A Channel Fault Exists - Module B Data Shown - Module B Channel Fault Exists - Module A Data Shown	
5	Channel Fault Description (in addition to standard faults) - Module A Fault - Module B Fault	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1715-IF16) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
Redundancy	Yes	Module redundancy - Yes - No This parameter is used to set the redundant property of the module.
CommFormat	Analog Only	This is used to Enable Hart parameters.

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_GotoDisplay	Faceplate navigation button with string tag label. Use with input modules.
Launch Button	GO_GotoDisplay1	Faceplate navigation button with string tag label. Use with output modules.
Launch Button	GO_LaunchDCIn_17xx	Use with 1715/1734/1756/1769 DC Input Modules
Launch Button	GO_LaunchDCOut_17xx	Use with 1715/1734/1756/1769 DC Output Modules
Launch Button	GO_LaunchAI_17xx	Use with 1715/1734/1769 Analog Input Modules
Launch Button	GO_LaunchAO_17xx	Use with 1715/1734/1769 Analog Output Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays

Name	Description	File Name	Extraction Path
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

5015 FLEXHA 5000 Universal I/O Modules

Overview

5015 FLEXHA 5000 Universal I/O (5015-U8IHFTXT) module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®.

5015-U8IHFTXT modules can be run in simplex or duplex mode. A different faceplate is provided for simplex mode and duplex. Each channel of the universal I/O module can be configured for an I/O type (digital input/digital output/analog input/analog output). At this time the HMI faceplates provided do not display channel specific information.

HMI faceplates provide the following information:

- Module description, status, and faults.
- Duplex modules provide channel diagnostic status.

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	Variation	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
5015	5015-U8IHFTXT	Simplex	(raC-5_01-SE) raC_Dvc_5015_U8IHFTXT_Simplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5015_U8IHFTXT_Simplex-Faceplate.gfx
		Duplex	(raC-5_03-SE) raC_Dvc_5015_U8IHFTXT_Duplex-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5015_U8IHFTXT_Duplex-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	Variation	View Designer Screen
5015	raC_Dvc_5015IO_wDesc.vpd	5015-U8IHFTXT	Simplex	raC_Dvc_5015-U8IHFTXT_Simplex_wDesc_FP
			Duplex	raC_Dvc_5015-U8IHFTXT_Duplex_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the */ApplicationCodeManagerLibraries/* folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
5015	5015-U8IHFTXT	(RA-LIB)_ACM_2.00_Module_Universal_5015-U8IHFTXT_(5.3).HSL4

Graphic Symbols

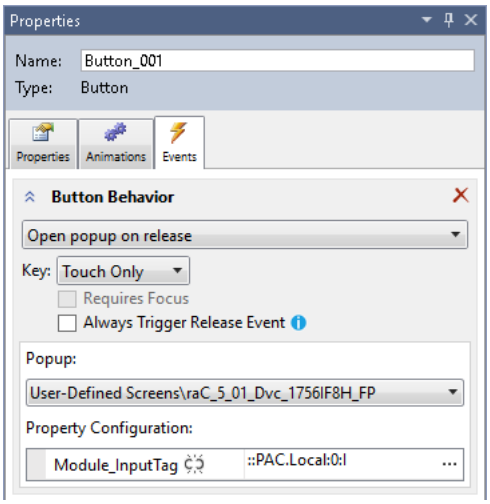
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchSpeciality_50xx	Use with 5069 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchSpeciality_50xx	Use with50xx Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

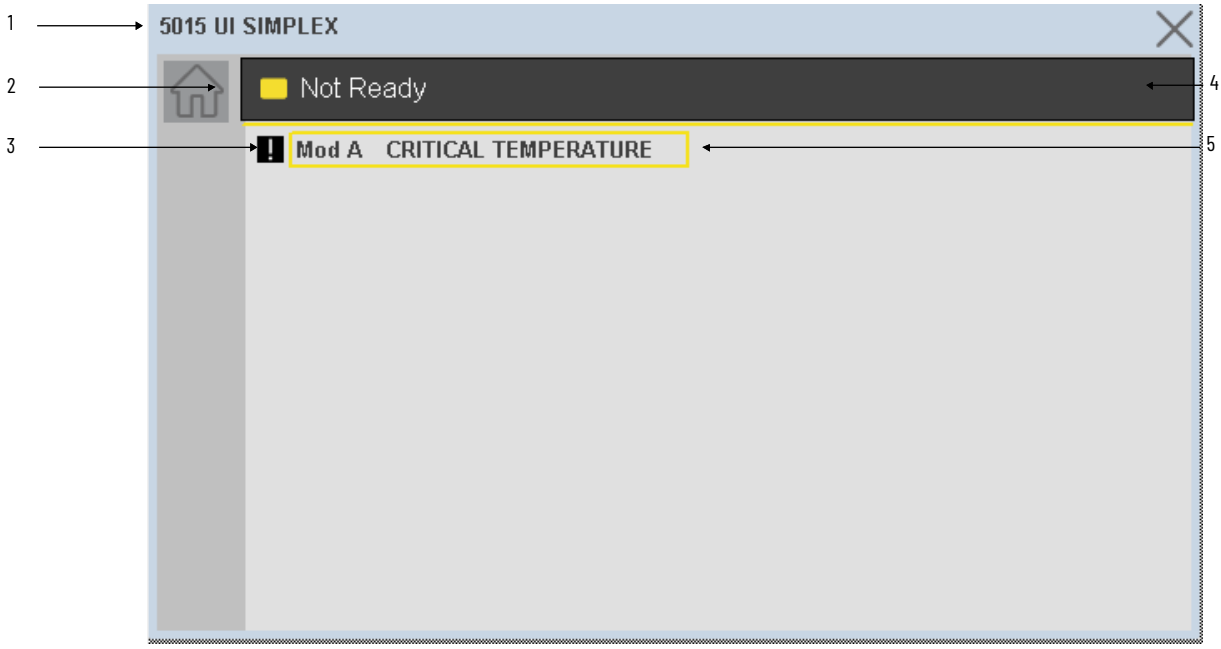
The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

Home

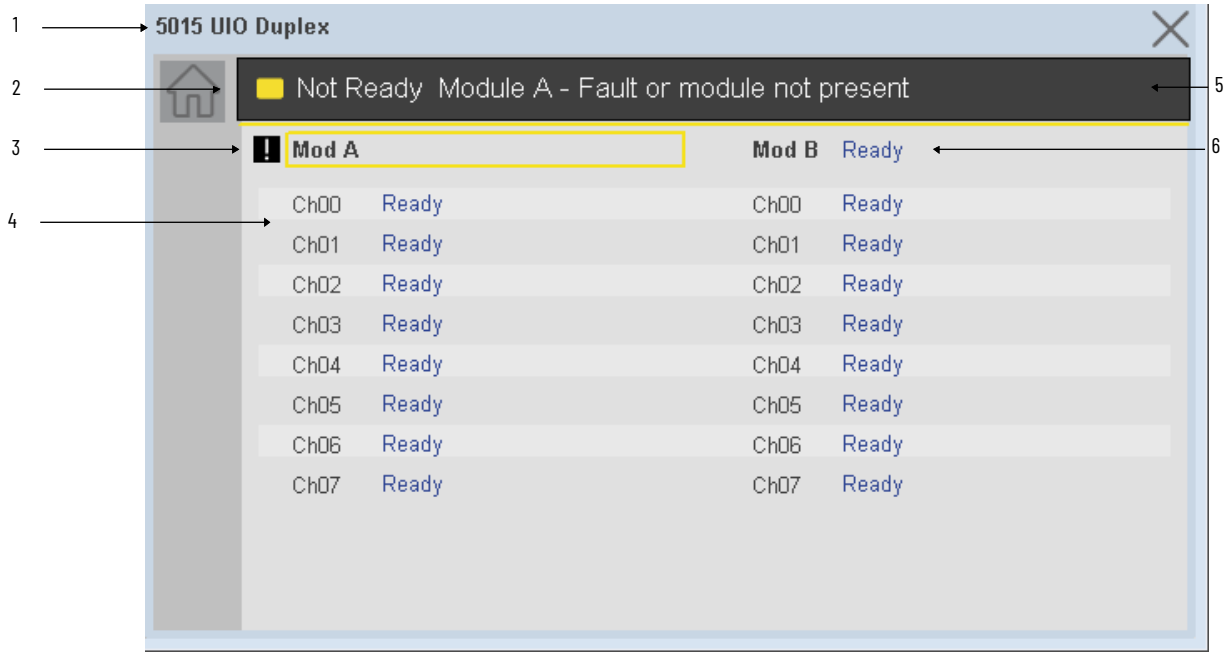
The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.

5015 Universal I/O Simplex Mode



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Module Fault Indication. "!" icon and yellow border.	
4	Module/Channel Fault status text. May display the following: - Connection faulted	
5	Module Fault Description: - Internal Fault - Critical Temperature - Over Temperature - RTB Fault - System Power A Fault - System Power B Fault - Backplane A Fault - Backplane B Fault	

5015 Universal I/O Duplex Mode



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Module Fault Indication. "!" icon and yellow border.	
4	Channel Diagnostic Status: - Ready - Diagnostic Active	
5	Module/Channel Fault status text. May display the following: - Connection faulted - Module A - Fault or module not present - Module B - Fault or module not present - Module A Channel Fault Exists - Module B Data Shown - Module B Channel Fault Exists - Module A Data Shown	
6	Module Ready/Fault Description: - Ready - Internal Fault - Critical Temperature - Over Temperature - RTB Fault - System Power A Fault - System Power B Fault - Backplane A Fault - Backplane B Fault - Flash Update Fault - Missing Fault - Product Type Fault - Revision Fault - Ownership Fault	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.

Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 5015-U8IHFTXT) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
SlotDuplex	0	This is the slot that this module is located in.Note that duplex module consume 2 slots.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
ChxAssignment	Undefined	Channel Type - Undefined - Digital - Input - Digital - Output - Analog - Input - Analog - Output
Redundancy	Simplex	Simplex (single module) or Duplex (dual module)
Symbolstyle	GraphicalButton	FTView HMI launch button symbol style.

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchSpeciality_50xx	Use with50xx Specialty Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Digital Input Safety Modules

Overview

Digital input safety module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, status and detailed faults
- Module diagnostic status and count (1756/5069/5094)

Some Safety I/O modules are provided with multiple configuration options. The most popular variations are available in this library. These can be configured using Application Code Manager. Unique faceplates for each variation are provided. These may include:

- Safety
- Safety Test Output
- Safety Muting

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	Variation	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1732ES	1732ES-IB16	SafetyTestOutput	(raC-5_01-SE) raC_Dvc_1732ES_IB16_SafetyTestOutput -Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB16_SafetyTestOutput -Faceplate.gfx
1734	1734-IB8S	SafetyTestOutput	(raC-5_01-SE) raC_Dvc_1734_IB8S_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_IB8S_SafetyTestOutput-Faceplate.gfx
1756	1756-IB16S	Safety	(raC-5_01-SE) raC_Dvc_1756_IB16S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_IB16S_Safety-Faceplate.gfx
1791ES	1791ES-IB16	Safety	(raC-5_01-SE) raC_Dvc_1791ES_IB16_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB16_Safety-Faceplate.gfx
		SafetyTestOutput	(raC-5_01-SE) raC_Dvc_1791ES_IB16_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB16_SafetyTestOutput-Faceplate.gfx
5069	5069-IB8S	Safety	(raC-5_01-SE) raC_Dvc_5069_IB8S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_IB8S_Safety-Faceplate.gfx
		SafetyMuting	(raC-5_01-SE) raC_Dvc_5069_IB8S_SafetyMuting-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_IB8S_SafetyMuting-Faceplate.gfx
5094	5094-IB16S	Safety	(raC-5_01-SE) raC_Dvc_5094_IB16S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_IB16S_Safety-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	Module	View Designer File	Variation	View Designer Screen
1732ES	1732ES-IB16	raC_Dvc_1732IO_wDesc.vpd	SafetyTestOutput	raC_Dvc_1732ES-IB16_SafetyTestOutput _wDesc_FP
1734	1734-IB8S	raC_Dvc_1734IO_wDesc.vpd	SafetyTestOutput	raC_Dvc_1734-IB8S_SafetyTestOutput_wDesc_FP
1756	1756-IB16S	raC_Dvc_1756IO_wDesc.vpd	Safety	raC_Dvc_1756-IB16S_Safety_wDesc_FP
1791ES	1791ES-IB16	raC_Dvc_1791IO_wDesc.vpd	Safety	raC_Dvc_1791ES-IB16_Safety_wDesc_FP
			SafetyTestOutput	raC_Dvc_1791ES-IB16_SafetyTestOutput_wDesc_FP
5069	5069-IB8S	raC_Dvc_5069IO_wDesc.vpd	Safety	raC_Dvc_5069-IB8S_Safety_wDesc_FP
		raC_Dvc_5069IO_wDesc.vpd	SafetyMuting	raC_Dvc_5069-IB8S_SafetyMuting_wDesc_FP
5094	5094-IB16S	raC_Dvc_5094IO_wDesc.vpd	Safety	raC_Dvc_5094-IB16S_Safety_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the */ApplicationCodeManagerLibraries/* folder of the library. The files included are as follows:

Family	Module	Variation	Application Code Manager File
1732ES	1732ES-IB16	SafetyTestOutput	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB16_(5.3).HSL4
1734	1734-IB8S	SafetyTestOutput	(RA-LIB)_ACM_2.00_Module_Digital_1734-IB8S_A_(5.3).HSL4
1756	1756-IB16S	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16S_(5.3).HSL4
1791ES	1791ES-IB16	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1791ES-IB16_(5.3).HSL4
		SafetyTestOutput	
5069	5069-IB8S	Safety	(RA-LIB)_ACM_2.00_Module_Digital_5069-IB8S_(5.3).HSL4
		SafetyMuting	
5094	5094-IB16S	Safety	(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16S_A_(5.3).HSL4
	5094-IB16SXT		(RA-LIB)_ACM_2.00_Module_Digital_5094-IB16SXT_A_(5.3).HSL4

Graphic Symbols

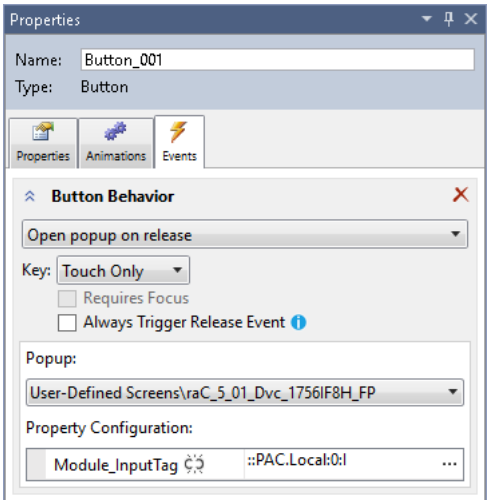
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchSafetyIn_1756	Use with 1756 Safety DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchSafetyDI_1734	Use with 1734 SafetyDC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_DCIn_5094	Use with 5094 DC Input Modules	#102: Faceplate Display Name #103: IO Module Input Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_InSafety_Armor	Use with 1732ES Safety Input Only Modules	#102: Faceplate Display Name #103: IO Module Input Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchSafetyIn_1756	Use with 1756 Safety DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchSafetyDI_1745	Use with 1734 SafetyDC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_DCIn_5094	Use with 5094 DC Input Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	
GO_Launch_InSafety_Armor	Use with 1732ES Safety Input Only Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

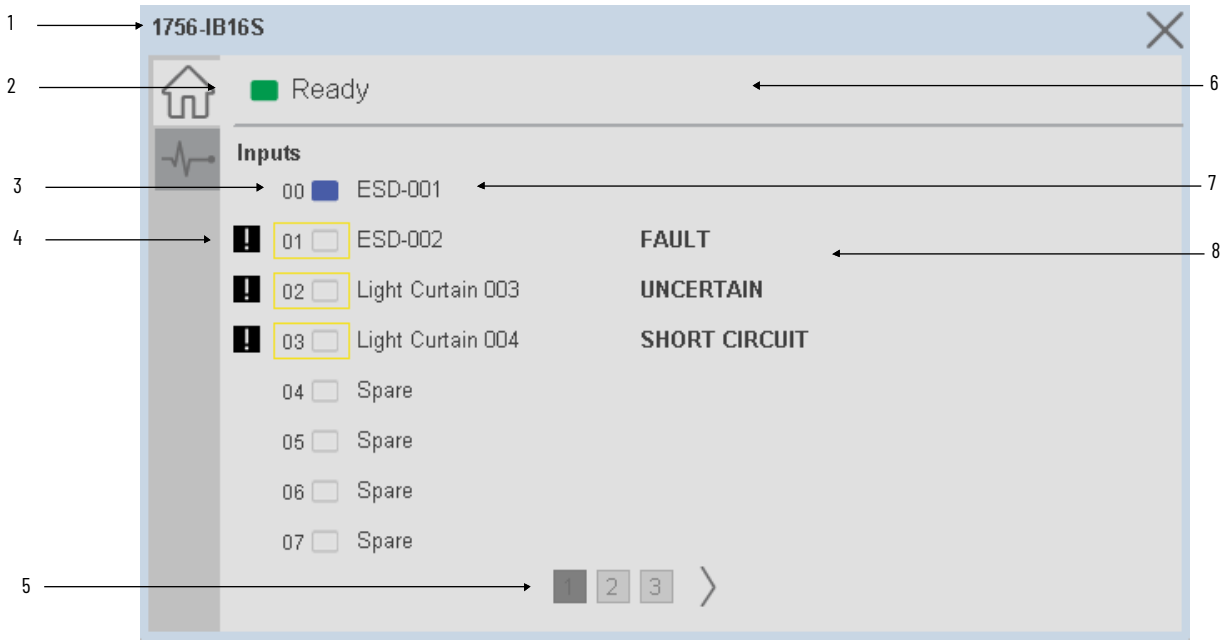
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Input modules this is the individual I.Ptxx.Data BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:3:I.Pt00	1756-IB16S	CHANNEL_SDI:I:0
R1756:3:I.Pt00.Data	ESD-001	BOOL

Home

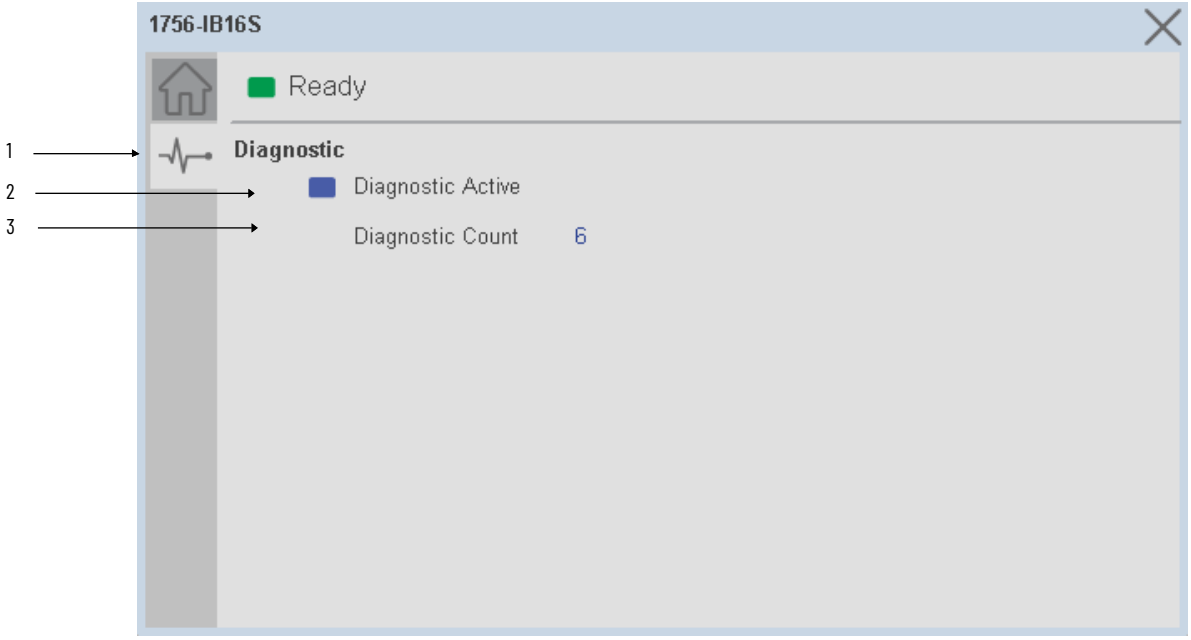
The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation; used for modules with more than 16 channels.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:I.Ptxx.Data.@Description	
8	Channel Fault Description: - Fault - Short Circuit (1756/5094/5069 only) - Uncertain (1756/5094/5069 only)	

Diagnostic Tab

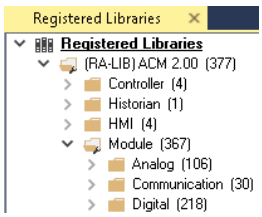
The Diagnostic tab is available only for 1756, 5094 and 5069 Safety I/O modules. This tab displays the Diagnostic Active status and the Diagnostic Count.



Item	Description	
1	Diagnostic tab navigation button	
2	Diagnostic Active Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
3	Diagnostic Count	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-IB16S) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
PointMode	Safety	Select the operation mode of the Points. Selections may vary depending on specific module. Options may include: - Safety - SafetyPulseTest - SafetyMuting - SafetyTestOutput
NavigationButton	GraphicalButton	Select Navigation Button Type

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchSafetyIn_1756	Use with 1756 Safety DC Input Modules
Launch Button	GO_LaunchSafetyDI_1745	Use with 1734 SafetyDC Input Modules
Launch Button	GO_LaunchDCIn_50xx	Use with 1719/5069/5015 DC Input Modules
Launch Button	GO_Launch_DCIn_5094	Use with 5094 DC Input Modules
Launch Button	GO_Launch_InSafety_Armor	Use with 1732ES Safety Input Only Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Digital Output Safety Modules

Overview

Digital Output and combination Digital Input/Output safety module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, status and detailed faults
- Module diagnostic status and count (1756/5069/5094)

Some Safety I/O modules are provided with multiple configuration options. The most popular variations are available in this library. These can be configured using Application Code Manager. Unique faceplates for each variation are provided. These may include:

- Safety
- Safety Bipolar
- Safety Sourcing

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	Variation	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1734	1734-OB8S	Safety	(raC-5_01-SE) raC_Dvc_1734_OB8S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_OB8S_Safety-Faceplate.gfx
	1734-OBV2S	Safety	(raC-5_01-SE) raC_Dvc_1734_OBV2S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1734_OBV2S_Safety-Faceplate.gfx
1732ES	1732ES-IB12XOB4	Safety	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOB4_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOB4_Safety-Faceplate.gfx
		SafetyTestOutput	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOB4_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOB4_SafetyTestOutput-Faceplate.gfx
	1732ES-IB12XOBV2	Safety	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOBV2_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOBV2_Safety-Faceplate.gfx
		SafetyTestOutput	(raC-5_01-SE) raC_Dvc_1732ES_IB12XOBV2_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB12XOBV2_SafetyTestOutput-Faceplate.gfx
	1732ES-IB8XOB8	Safety	(raC-5_01-SE) raC_Dvc_1732ES_IB8XOB8_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB8XOB8_Safety-Faceplate.gfx
		SafetyTestOutput	(raC-5_01-SE) raC_Dvc_1732ES_IB8XOB8_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB8XOB8_SafetyTestOutput-Faceplate.gfx
	1732ES-IB8XOBV4	Safety	(raC-5_01-SE) raC_Dvc_1732ES_IB8XOBV4_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1732ES_IB8XOBV4_Safety-Faceplate.gfx
		SafetyTestOutput	(raC-5_03-SE) raC_Dvc_1732ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1732ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx
1756	1756-OBV8S	SafetyBipolar	(raC-5_01-SE) raC_Dvc_1756_OBV8S_SafetyBipolar-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OBV8S_SafetyBipolar-Faceplate.gfx
		SafetySourcing	(raC-5_01-SE) raC_Dvc_1756_OBV8S_SafetySourcing-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_OBV8S_SafetySourcing-Faceplate.gfx
1791ES	1791ES-IB8XOBV4	Safety	(raC-5_01-SE) raC_Dvc_1791ES_IB8XOBV4_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB8XOBV4_Safety-Faceplate.gfx
		SafetyTestOutput	(raC-5_01-SE) raC_Dvc_1791ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1791ES_IB8XOBV4_SafetyTestOutput-Faceplate.gfx
5069	5069-OBV8S	SafetyBipolar	(raC-5_01-SE) raC_Dvc_5069_OBV8S_SafetyBipolar-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_OBV8S_SafetyBipolar-Faceplate.gfx
		SafetySourcing	(raC-5_01-SE) raC_Dvc_5069_OBV8S_SafetySourcing-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_OBV8S_SafetySourcing-Faceplate.gfx
5094	5094-OB16S	Safety	(raC-5_01-SE) raC_Dvc_5094_OB16S_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_OB16S_Safety-Faceplate.gfx
	5094-OW4IS		(raC-5_01-SE) raC_Dvc_5094_OW4IS_Safety-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_OW4IS_Safety-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	Variation	View Designer Screen
1734	raC_Dvc_1734IO_wDesc.vpd	1734-OB8S	Safety	raC_Dvc_1734-OB8S_Safety_wDesc_FP
		1734-OBV2S	Safety	raC_Dvc_1734-OBV2S_wDesc_FP
1732ES	raC_Dvc_1732IO_wDesc.vpd	1732ES-IB12XOB4	Safety	raC_Dvc_1732ES-IB12XOB4_Safety_wDesc_FP
			SafetyTestOutput	raC_Dvc_1732ES-IB12XOB4_SafetyTestOutput_wDesc_FP
		1732ES-IB12XOBV2	Safety	raC_Dvc_1732ES-IB12XOBV2_Safety_wDesc_FP
			SafetyTestOutput	raC_Dvc_1732ES-IB12XOBV2_SafetyTestOutput_wDesc_FP
		1732ES-IB8XOB8	Safety	raC_Dvc_1732ES-IB8XOB8_Safety_wDesc_FP
			SafetyTestOutput	raC_Dvc_1732ES-IB8XOB8_SafetyTestOutput_wDesc_FP
		1732ES-IB8XOBV4	Safety	raC_Dvc_1732ES-IB8XOBV4_Safety_wDesc_FP
			SafetyTestOutput	raC_Dvc_1732ES-IB8XOBV4_SafetyTestOutput_wDesc_FP
1756	raC_Dvc_1756IO_wDesc.vpd	1756-OBV8S	SafetyBipolar	raC_Dvc_1756-OBV8S_SafetyBipolar_wDesc_FP
			SafetySourcing	raC_Dvc_1756-OBV8S_SafetySourcing_wDesc_FP
1791ES	raC_Dvc_1791IO_wDesc.vpd	1791ES-IB8XOBV4	Safety	raC_Dvc_1791ES-IB8XOBV4_Safety_wDesc_FP
			SafetyTestOutput	raC_Dvc_1791ES-IB8XOBV4_SafetyTestOutput_wDesc_FP

Family	View Designer File	Module	Variation	View Designer Screen
5069	raC_Dvc_5069IO_wDesc.vpd	5069-OBV8S	SafetyBipolar	raC_Dvc_5069-OBV8S_wDesc_FP
			SafetySourcing	raC_Dvc_5069-OBV8S_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-OB16S	Safety	raC_Dvc_5094-OB16S_Safety_wDesc_FP
		5094-OW4IS		raC_Dvc_5094-OW4IS_Safety_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Variation	Application Code Manager File
1734	1734-OB8S	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1734-OB8S_(5.3).HSL4
	1734-OBV2S	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1734-OBV2S_(5.3).HSL4
1732ES	1732ES-IB12XOB4	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB12XOB4_(5.3).HSL4
		SafetyTestOutput	
	1732ES-IB12XOBV2	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB12XOBV2_(5.3).HSL4
		SafetyTestOutput	
	1732ES-IB8XOB8	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB8XOB8_(5.3).HSL4
		SafetyTestOutput	
	1732ES-IB8XOBV4	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1732ES-IB8XOBV4_(5.3).HSL4
		SafetyTestOutput	
1756	1756-OBV8S	SafetyBipolar	(RA-LIB)_ACM_2.00_Module_Digital_1756-OBV8S_(5.3).HSL4
		1756-OB16IS	(RA-LIB)_ACM_2.00_Module_Digital_1756-OB16IS_(5.3).HSL4
		SafetySourcing	(RA-LIB)_ACM_2.00_Module_Digital_1756-OBV8S_(5.3).HSL4
1791ES	1791ES-IB8XOBV4	Safety	(RA-LIB)_ACM_2.00_Module_Digital_1791ES-IB8XOBV4_(5.3).HSL4
		SafetyTestOutput	
5069	5069-OBV8S	SafetyBipolar	(RA-LIB)_ACM_2.00_Module_Digital_5069-OBV8S_(5.3).HSL4
		SafetySourcing	(RA-LIB)_ACM_2.00_Module_Digital_5069-OBV8S_(5.3).HSL4
5094	5094-OB16S	Safety	(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16S_A_(5.3).HSL4
	5094-OW4IS		(RA-LIB)_ACM_2.00_Module_Digital_5094-OW4IS_(5.3).HSL4
	5094-OW4ISXT		(RA-LIB)_ACM_2.00_Module_Digital_5094-OW4ISXT_(5.3).HSL4
	5094-OB16SXT		(RA-LIB)_ACM_2.00_Module_Digital_5094-OB16SXT_A_(5.3).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchSafetyIn_1756	Use with 1756 Safety DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchSafetyDI_1734	Use with 1734 SafetyDC Output Modules & with TestOutput Module Configuration	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchSafetyOut_1756	Use with 1756 Safety AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchSafetyDO_1734	Use with 1734 Safety AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_LaunchInOutSafety_Armor1	Use with 1791ES Safety Compact Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: Custom button label. #120: Display's left position #121: Display's top position	

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_Launch_DCOut_5094	Use with 5094 DC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_ACOut_5094	Use with 5094 AC Output Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #111: IO Class: Blank = Standard; 1= Safety #120: Display's left position #121: Display's top position	
GO_Launch_InOutSafety_Armor	Use with 1732ES Safety Input/Output Modules & with TestOutput Module Configuration	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I) and *Module_OutputTag* to the module's :O controller tag (e.g. ::PAC.Local:3:O).

Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSafetyIn_1756	Use with 1756 Safety DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSafetyDI_1734	Use with 1734 SafetyDC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSafetyOut_1756	Use with 1756 Safety AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSafetyDO_1734	Use with 1734 Safety AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchDCOut_50xx	Use with 1719/5069/5015 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
GO_Launch_DCOut_5094	Use with 5094 DC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_ACOut_5094	Use with 5094 AC Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_Launch_InOutSafety_Armor	Use with 1732ES Safety Input/Output Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Input modules this is the individual O.Ptxx.Data BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

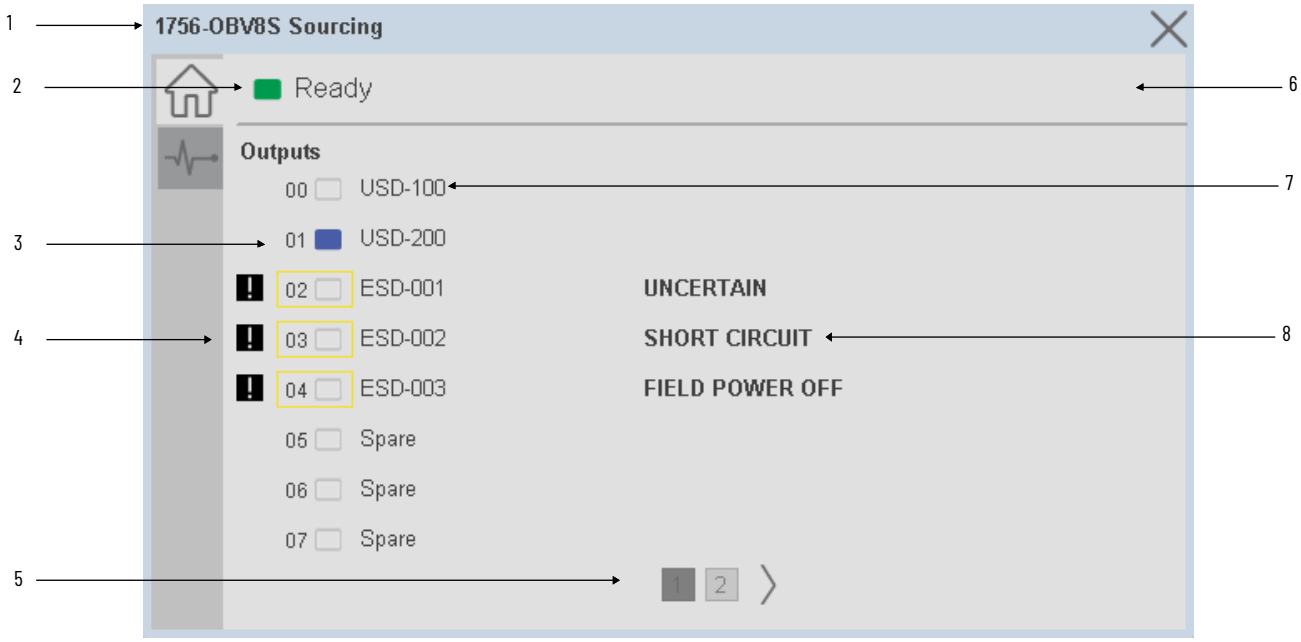
Name	Description	Data Type
R1756:6:O.Pt00		CHANNEL_SDO:O:0
R1756:6:O.Pt00.Data	USD-100	BOOL
R1756:6:O.Pt00.ResetFault		BOOL

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.

Home Page - Outputs

The first page(s) of the home tab displays Output channels. 8 channels will be shown per page; depending on the exact model this data may be shown on page 1 or page 1 and page 2.

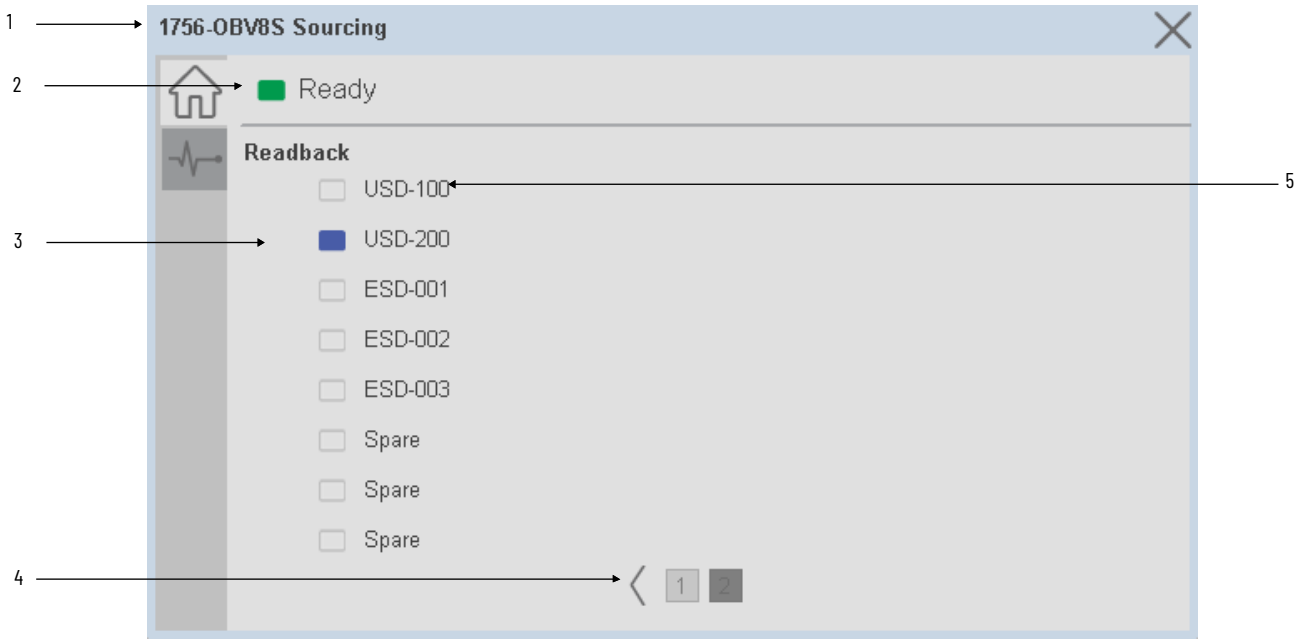


Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready

Item	Description	
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border. This is correlated to the Module:O.Ptxx.Status tag where 0 = fault.	
5	Page navigation; used for modules with more than 16 channels.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:O.Ptxx.Data.@Description	
8	Channel fault description - Field Power Off (1756/5069/5094 only) - Channel Fault - Short Circuit (1756/5069/5094 only) - Uncertain (1756/5069/5094 only)	

Home Page - Readback

The next page of the home tab displays readback channels. 8 channels will be shown per page; depending on the exact model this data may be shown on page 2or page 3and page 4.

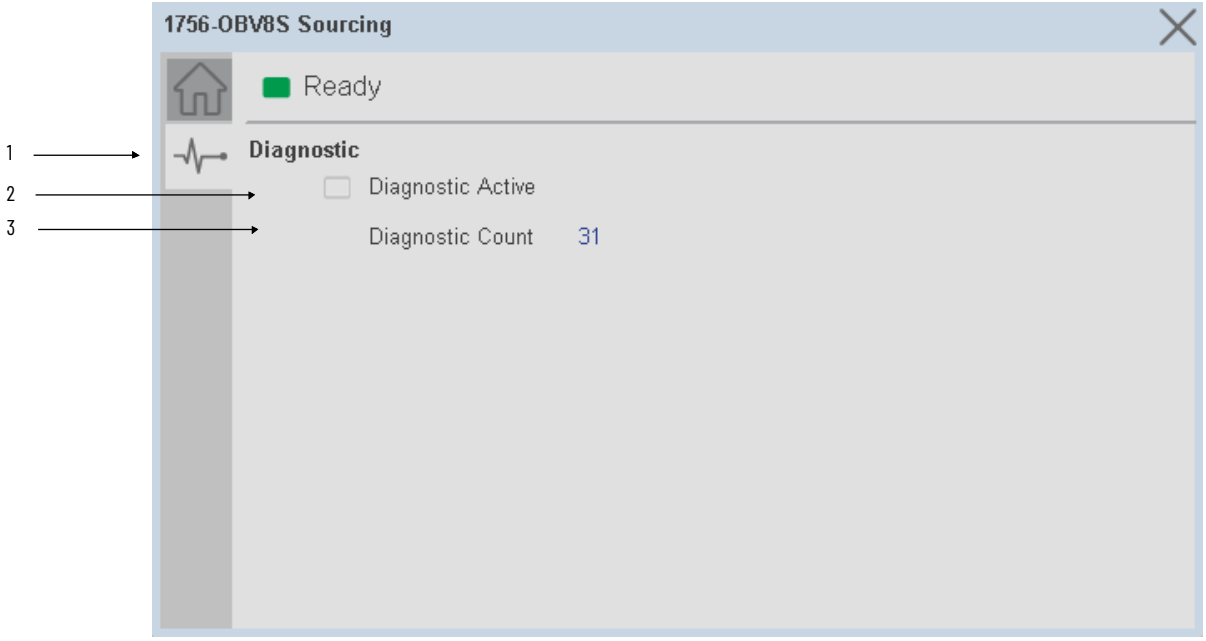


Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready

Item	Description	
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Page navigation; used for modules with more than 16 channels.	
5	Channel description. Module:I.Ptxx.Readback.@Description	

Diagnostic Tab

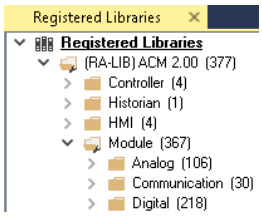
The Diagnostic tab is available only for 1756, 5094 and 5069 Safety I/O modules. This tab displays the Diagnostic Active status and the Diagnostic Count.



Item	Description	
1	Diagnostic tab navigation button	
2	Diagnostic Active Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
3	Diagnostic Count	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-OBV8S) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
OUTChxDescription		Channel tag description used in Module:O.Data.x.@Description tag and shown on HMI faceplates.
READBACKChXDescription		Channel tag description used in studio 5000 and HMI faceplate.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
PointMode	Safety	Select the operation mode of the Points. Selections may vary depending on specific module. Options may include: - Safety - SafetyPulseTest
NavigationButton	GraphicalButton	Select navigation button type

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchSafetyIn_1756	Use with 1756 Safety DC Output Modules
Launch Button	GO_LaunchSafetyDI_1734	Use with 1734 SafetyDC Output Modules
Launch Button	GO_LaunchDCOut_50xx	Use with 1719/5069/5015 DC Output Modules
Launch Button	GO_LaunchSafetyOut_1756	Use with 1756 Safety AC Output Modules
Launch Button	GO_LaunchSafetyDO_1734	Use with 1734 Safety AC Output Modules
Launch Button	GO_LaunchDCOut_50xx	Use with 1719/5069/5015 AC Output Modules

Launch Button	GO_Launch_DCOut_5094	Use with 5094 DC Output Modules
Launch Button	GO_Launch_ACOut_5094	Use with 5094 AC Output Modules
Launch Button	GO_Launch_InOutSafety_Armor	Use with 1732ES Safety Input/Output Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Sequence of Event (SOE) Modules

Overview

Sequence of event (SOE) module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. HMI faceplates provide the following information:

- Module description, status, and faults
- Channel description, status and faults
- Event on/off timestamps and new data indications

The 1756-IB16ISOE and 1756-IH16SOE modules have multiple module configuration options. A single HMI faceplate is provided for both modules supporting two configurations. Using Application Code Manager you can select the desired configuration from the following options:

- CIP Sync Per Point
- CST Per Point

FIFO configurations are not supported with Application Code Manager or HMI faceplates at this time.

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	Variation	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	1756-IB16ISOE	CIP Sync Per Point	(raC-5_01-SE) raC_Dvc_1756_Ix16ISOE-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_Ix16ISOE-Faceplate.gfx
		CST Per Point		
	1756-IH16ISOE	CIP Sync Per Point		
		CST Per Point		

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	Variation	View Designer Screen
1756	raC_Dvc_1756IO_wDesc .vpd	1756-IB16ISOE	CIP Sync Per Point	raC_Dvc_1756-Ix16ISOE_wDesc_FP
			CST Per Point	
		1756-IH16ISOE	CIP Sync Per Point	
			CST Per Point	

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the */ApplicationCodeManagerLibraries/* folder of the library. The files included are as follows:

Family	Module	Variation	Application Code Manager File
1756	1756-IB16ISOE	CIP Sync Per Point	(RA-LIB)_ACM_2.00_Module_Digital_1756-IB16ISOE_A_(5.2).HSL4
		CST Per Point	
	1756-IH16ISOE	CIP Sync Per Point	(RA-LIB)_ACM_2.00_Module_Digital_1756-IH16ISOE_A_(5.2).HSL4
		CST Per Point	

Graphic Symbols

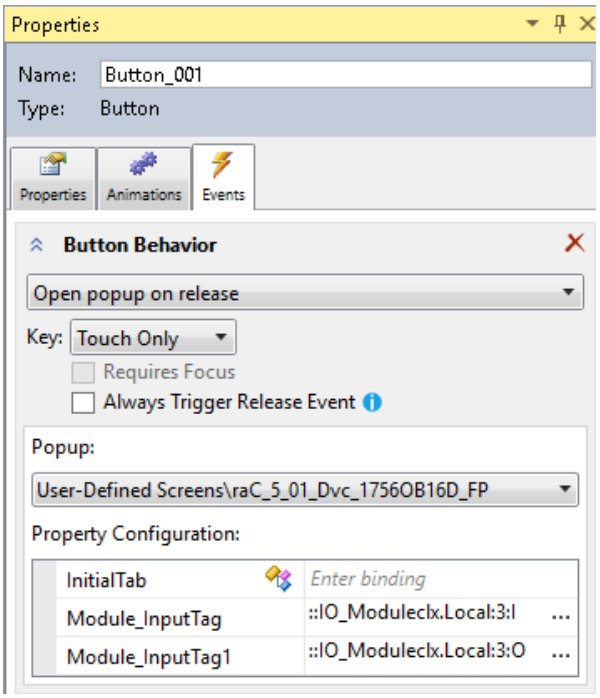
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchSOESerial_17xx	Use with 17xx SOE and SERIAL Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756_Ix16ISOE-FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I) and *Module_OutputTag* to the module's :O controller tag (e.g. ::PAC.Local:3:O).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	Button
GO_LaunchSOESerial_17xx	Use with 17xx SOE and SERIAL Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	SPEC

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

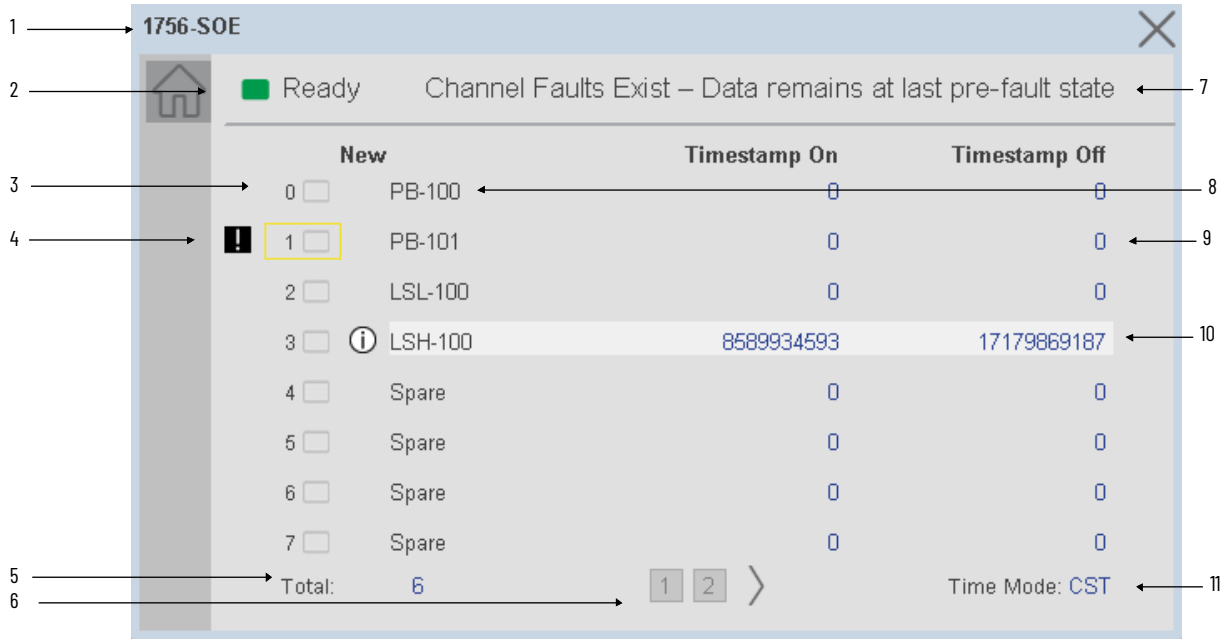
Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The I/O channel descriptions are linked to the channel's primary data tag *.@Description* field. For Digital Input modules this is the individual I.Data.*x* BOOL tags. Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R1756:8:I	1756-IB32	AB:1756_DI:I:0
R1756:8:I.Fault	1756-IB32	DINT
R1756:8:I.Data	1756-IB32	DINT
R1756:8:I.Data.0	PB-201	BOOL
R1756:8:I.Data.1	PB-202	BOOL
R1756:8:I.Data.2	PB-203	BOOL
R1756:8:I.Data.3	LSL-300	BOOL
R1756:8:I.Data.4	LSH-300	BOOL
R1756:8:I.Data.5	LSHH-300	BOOL

Home

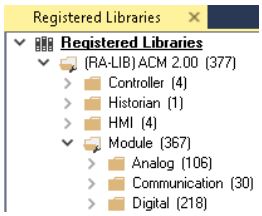
The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Total number of events	
6	Page navigation; used for modules with more than 8 channels.	
7	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
8	Channel description. Module:I.Data.x.@Description	
9	Timestamp On & Timestamp Off	
10	Channels with new data shown highlighted with (i) icon.	
11	Time Mode: - CST - UTC	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-IBISOE) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
ChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
NavigationButton	GraphicalButton	Select Navigation Button type.

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_GotoDisplay1	Faceplate navigation button with string tag label.
Launch Button	GO_LaunchSOESerial_17xx	Use with 17xx SOE and SERIAL Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays

Name	Description	File Name	Extraction Path
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

High Speed Counter (HSC) Modules

Overview

High Speed Counter (HSC) module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. Functionality varies slightly depending on the I/O family (1756/1769/1794/5069/5094). HMI faceplates provide the following information:

- All Modules (1756/1769/1794/5069/5094):
  - Module description, status, and faults
  - HSC channel description, data, count and faults
- 1769/5069/5094 modules additionally provide:
  - channel A/B/Z status
  - pulse width/interval
  - Current rate/acceleration
- 5069 and 5094 modules additionally provide:
  - detailed channel faults
  - Output channel status, description and detailed faults
  - In window status and window detailed faults

I/O modules may be configured with either Data or Data with Events; however, Event data is not displayed on any faceplates at this time.

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	1756-HSC	(raC-5_03-SE) raC_Dvc_1756_HSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1756_HSC-Faceplate.gfx
1769	1769-HSC	(raC-5_03-SE) raC_Dvc_1769_HSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1769_HSC-Faceplate.gfx
1794	1794-VHSC	(raC-5_03-SE) raC_Dvc_1794_VHSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1794_VHSC-Faceplate.gfx
5069	5069-HSC2X0B4	(raC-5_01-SE) raC_Dvc_5069_HSC2X0B4-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5069_HSC2X0B4-Faceplate.gfx
5094	5094-HSC	(raC-5_01-SE) raC_Dvc_5094_HSC-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_5094_HSC-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	View Designer Screen
1756	raC_Dvc_1756IO_wDesc.vpd	1756-HSC	raC_Dvc_1756-HSC_wDesc_FP
1769	raC_Dvc_1769IO_wDesc.vpd	1769-HSC	raC_Dvc_1769-HSC_wDesc_FP
1794	raC_Dvc_1794IO_wDesc.vpd	1794-VHSC	raC_Dvc_1794-VHSC_wDesc_FP
5069	raC_Dvc_5069IO_wDesc.vpd	5069-HSC2X0B4	raC_Dvc_5069-HSC2X0B4_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-HSC	raC_Dvc_5094-HSC_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the */ApplicationCodeManagerLibraries/* folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1756	1756-HSC	(RA-LIB)_ACM_2.00_Module_Speciality_1756-HSC_B_(5.3).HSL4
1769	1769-HSC	(RA-LIB)_ACM_2.00_Module_Speciality_1769-HSC_A_(5.3).HSL4
1794	1794-VHSC	(RA-LIB)_ACM_2.00_Module_Speciality_1794-VHSC_A_(5.3).HSL4
5069	5069-HSC2X0B4	(RA-LIB)_ACM_2.00_Module_Speciality_5069-HSC2X0B4_A_(5.3).HSL4
5094	5094-HSC	(RA-LIB)_ACM_2.00_Module_Speciality_5094-HSC_A_(5.3).HSL4
	5094-HSCXT	(RA-LIB)_ACM_2.00_Module_Speciality_5094-HSCXT_A_(5.3).HSL4

Graphic Symbols

Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

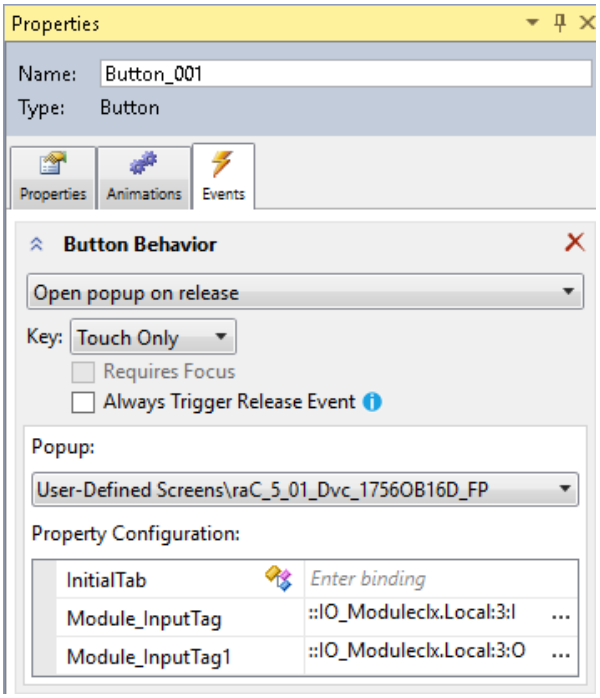
FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchSpeciality_50xx	Use with 5069 Specialty Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchHSC_17xx	Use with 1734/1756/1769 Specialty Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchSpecialty_5094	Use with 5094 Specialty Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchSpecialty_1794	Use with 1794 Specialty Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an

InitialTab to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I) and *Module_OutputTag* to the module's :O controller tag (e.g. ::PAC.Local:3:O).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSpeciality_50xx	Use with 5069 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchHSC_17xx	Use with 1734/1756/1769 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSpecialty_5094	Use with 5094 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSpecialty_1794	Use with 1794 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The channel descriptions are linked to the channel's primary data tag *.@Description* field.

For 50xx Modules:

- Counter channel description is linked to the module's I.Counter*xx* tags.
- Output channel description fields are linked to the I.Output*xx*.@Description fields.

For 1756 Modules:

- Counter channel description is linked to the module's I.PresentValue[*x*] tags.

For 1794 Modules:

- Counter channel description is linked to the module's I.Ch*x*CurrentCount tags.

Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R5094:1:I	5094-HSC	AB:5000_HSC2:I:0
R5094:1:I.RunMode	5094-HSC	BOOL
R5094:1:I.ConnectionFaulted	5094-HSC	BOOL
R5094:1:I.DiagnosticActive	5094-HSC	BOOL
R5094:1:I.DiagnosticSequenceC...	5094-HSC	SINT
R5094:1:I.Counter00	FIT-106 Counter	CHANNEL_HSC:I:0
R5094:1:I.Counter01	FIT-209 Counter	CHANNEL_HSC:I:0
R5094:1:I.Window00	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Window01	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Window02	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Window03	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Window04	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Window05	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Window06	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Window07	5094-HSC	AB:5000_Window_Struct:I:0
R5094:1:I.Output00	HSC Out 00	CHANNEL_DO_DIAG:I:0
R5094:1:I.Output01	HSC Out 01	CHANNEL_DO_DIAG:I:0
R5094:1:I.Output02	Spare	CHANNEL_DO_DIAG:I:0
R5094:1:I.Output03	HSC Output 03	CHANNEL_DO_DIAG:I:0

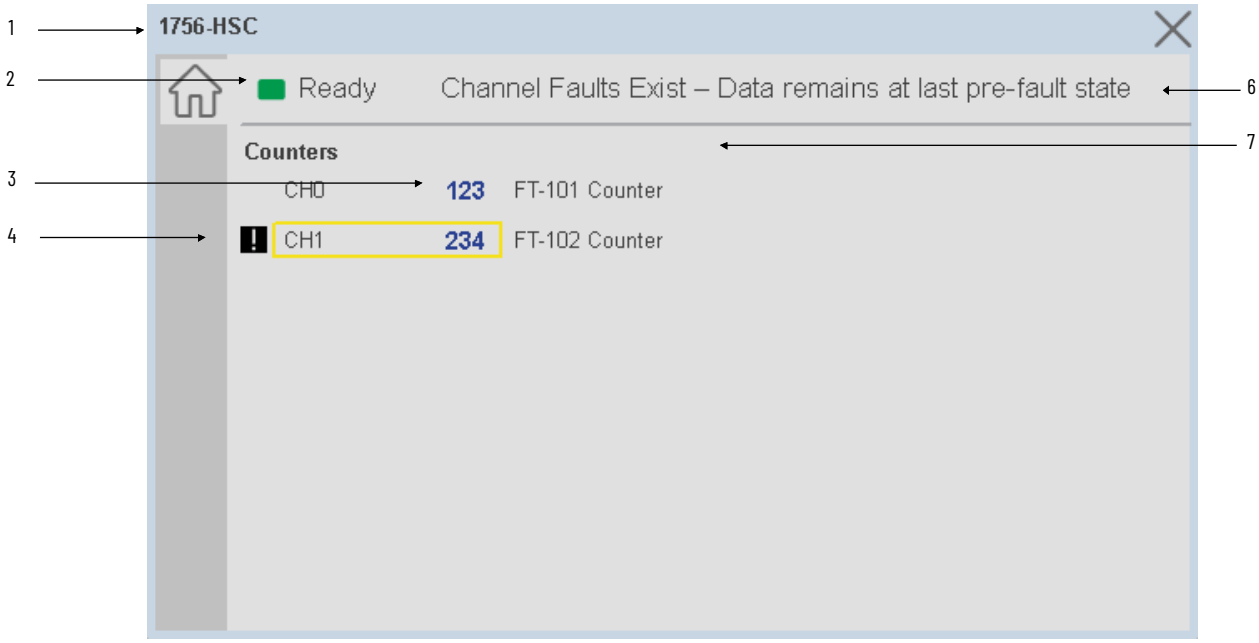
Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information.

5069 and 5094 have 3 pages within the home tab. They display the following data:

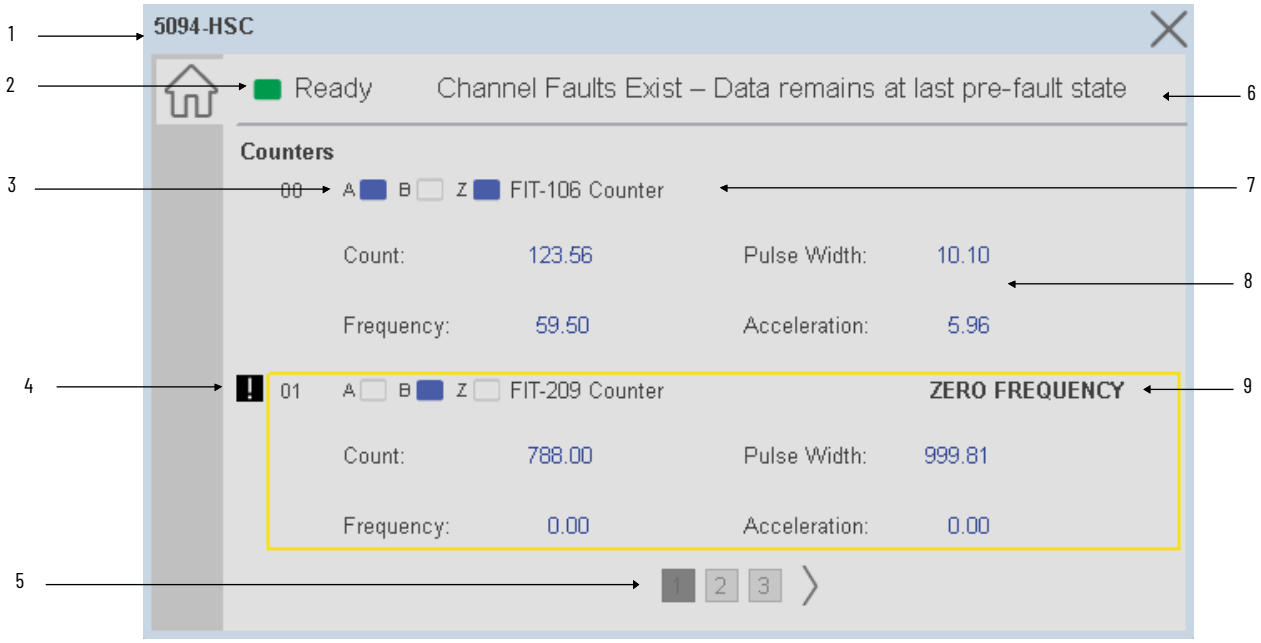
- Page 1: Counter channel data
- Page 2: Output channel data
- Page 3: Window data

1756/1794 Home Tab - Counters



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel current count	
4	Channel Fault Indication. "!" icon and yellow border.	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:I.PresentValue[x]@Description (1756) or Module:I.ChxCurrentCount.@Description (1794)	

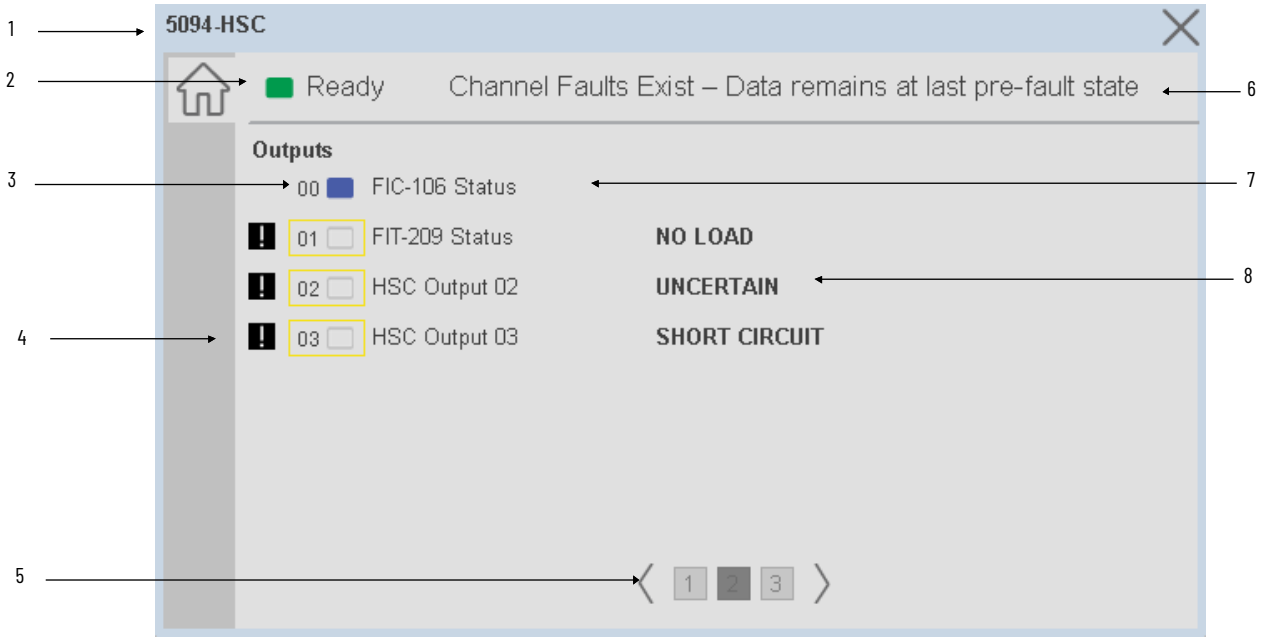
1769/5069/5094 Home Tab - Counters



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel A/B/Z status indicator.	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	

Item	Description
7	Channel description. Module:I.Counter*xx*.@Description
8	Detailed counter channel data - Count - Frequency - Pulse Width - Acceleration
9	Detailed fault data: - Zero Frequency Alarm - Missing Pulse Alarm - Partial Average Frequency - Partial Average Pulse Width - HSC Uncertain - Acceleration Average Alarm - Deceleration Average Alarm - Not a Number - Zero Frequency Alarm - Frequency Average Alarm - Pulse Width Average Alarm - Deceleration Alarm - Acceleration Alarm - Rollover - Frequency Overrange - Pulse Width Alarm - Frequency Alarm

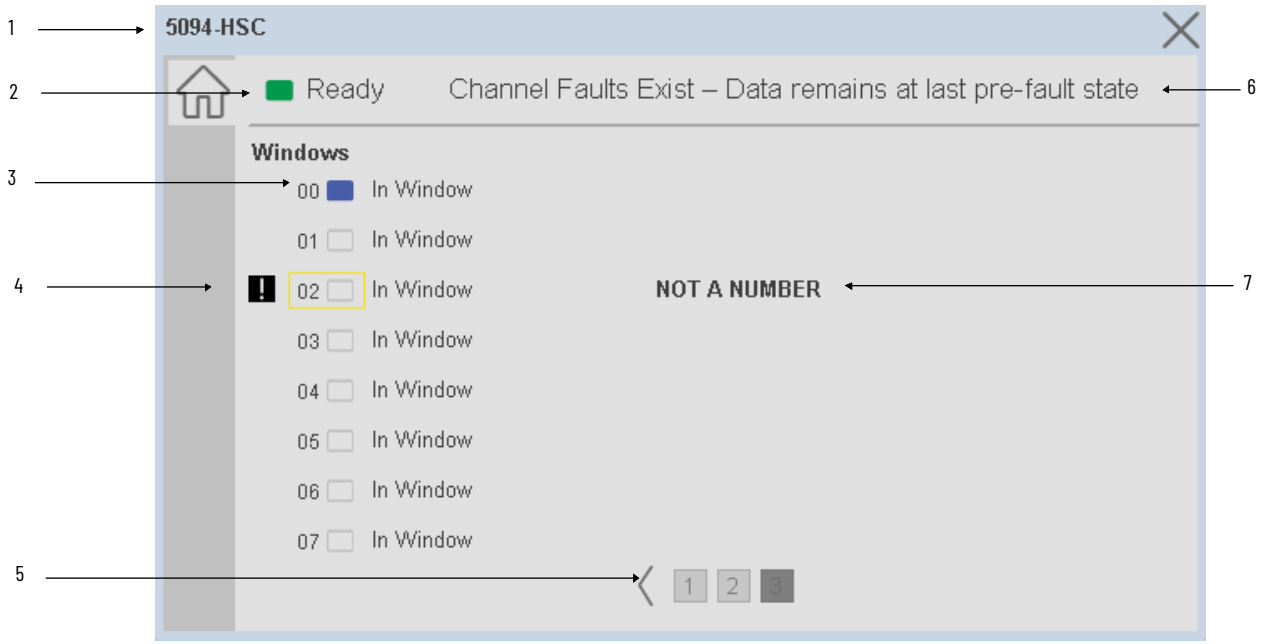
5069/5094 Home Tab - Outputs



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready

Item	Description	
3	Output channel status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Module:I.Outputxx.@Description	
8	Detailed fault data: - Short Circuit - Uncertain - No Load - Channel Fault	

5069/5094 Home Tab - Windows

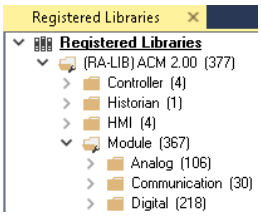


Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready

Item	Description	
3	In window status	
	BLUE = Active/High	
	GREY = Inactive/Low	
4	Channel Fault Indication. "!" icon and yellow border.	
5	Page navigation	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
8	Detailed fault data: - Not a Number	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 1756-HSC) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
CounterChxDescription		Channel tag description used in Module:I.Data.x.@Description tag and shown on HMI faceplates.
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
NavigationButton	GraphicalButton	Select Navigation Button type.

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchSpeciality_50xx	Use with 5069 Specialty Modules
Launch Button	GO_LaunchHSC_17xx	Use with 1734/1756/1769 Specialty Modules
Launch Button	GO_LaunchSpecialty_5094	Use with 5094 Specialty Modules
Launch Button	GO_LaunchSpecialty_1794	Use with 1794 Specialty Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Serial Modules

Overview

Serial module objects include Studio 5000® Application Code Manager modules and HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®. Functionality varies slightly depending on the I/O family (1769/5069/5094). HMI faceplates provide the following information:

- All serial modules:
  - Module description, status, and faults
  - Serial channel description and detailed fault status
- 1769-ASCII
  - New data and Tx Data Sent status
  - Tx Ack count
  - Rx ID and Rx Data Length
- 5069/5094-SERIAL - ASCII Channel
  - Diagnostic status and count
  - New data status
  - CTS/RTS/DSR/DCD/DTR/XOFF Status
  - Tx Data sent status, Tx Ack count, Tx ID and Tx Data length
  - Rx ID and Rx Data Length
- 5069/5094-SERIAL - Modbus Master/Slave Channel
  - Diagnostic status and count

5069/5094 SERIAL modules can use the same HMI faceplates. One faceplate is assigned per serial channel and is dependent on one of the three serial types used:

- ASCII
- Modbus Master
- Modbus Slave

Required Files

IO Device Objects include HMI faceplates. There is no controller programming required other than the creation of the I/O module in the project. If using FactoryTalk® View ME/SE you must also import the tag import file *FTViewStudio_IOLibrary_Tags_5_00.CSV* to support navigation on faceplates with multiple tabs or pages.

Note that the revision numbers (e.g. 5.01) used in filenames below can change as new revisions are created.

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	Variation	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1769	1769-ASCII	N/A	(raC-5_01-SE) raC_Dvc_1769_ASCII-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_1769_ASCII-Faceplate.gfx
5069	5069-SERIAL	ASCII	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx
		MBMaster	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx
		MBSlave	(raC-5_03-SE) raC_Dvc_50x_SERIAL_MBSlave-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBSlave-Faceplate.gfx
5094	5094-SERIAL	ASCII	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_ASCII-Faceplate.gfx
		MBMaster	(raC-5_03-SE) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBMaster-Faceplate.gfx
		MBSlave	(raC-5_03-SE) raC_Dvc_50x_SERIAL_MBSlave-Faceplate.gfx	(raC-5_01-ME) raC_Dvc_50xx_SERIAL_MBSlave-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	Variation	View Designer Screen
1769	raC_Dvc_1769IO_wDesc.vpd	1769-ASCII	N/A	raC_Dvc_1769-ASCII_wDesc_FP
5069	raC_Dvc_5069IO_wDesc.vpd	5069-SERIAL	ASCII	raC_Dvc_5069-SERIAL_ASCII_wDesc_FP
			MBMaster	raC_Dvc_5069-SERIAL_MBMaster_wDesc_FP
			MBSlave	raC_Dvc_5069-SERIAL_MBSlave_wDesc_FP
5094	raC_Dvc_5094IO_wDesc.vpd	5094-SERIAL	ASCII	raC_Dvc_5094-SERIAL_ASCII_wDesc_FP
			MBMaster	raC_Dvc_5094-SERIAL_MBMaster_wDesc_FP
			MBSlave	raC_Dvc_5094-SERIAL_MBSlave_wDesc_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

Family	Module	Application Code Manager File
1769	1769-ASCII	(RA-LIB)_ACM_2.00_Module_Speciality_1769-ASCII_(5.3).HSL4
5069	5069-SERIAL	(RA-LIB)_ACM_2.00_Module_Speciality_5069-SERIAL_(5.3).HSL4
5094	5094-SERIAL	(RA-LIB)_ACM_2.00_Module_Speciality_5094-SERIAL_A_(5.3).HSL4
		(RA-LIB)_ACM_2.00_Module_Speciality_5094-SERIALXT_A_(5.3).HSL4

Graphic Symbols

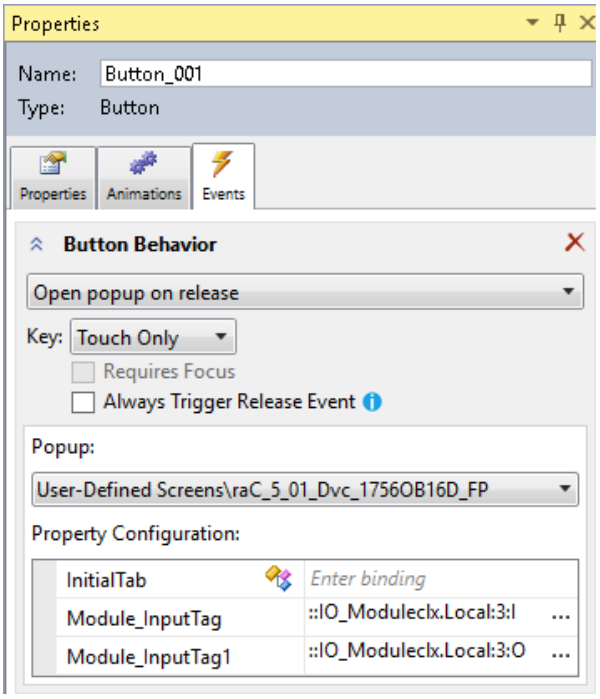
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay1	Faceplate navigation button with string tag label.	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchSpeciality_50xx	Use with 5069 Specialty Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchHSC_17xx	Use with 1734/1756/1769 Specialty Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	
GO_LaunchSpecialty_5094	Use with 5094 Specialty Modules	#102: Faceplate Display Name #103: IO Module Input Tag #104: IO Module Output Tag #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_5_02_Dvc_1756OB16D_wDesc_FP). The required *Property Configurations* are found in the following table where you may assign an *InitialTab* to 11 to ensure the pop-up opens on the Home Tab, and assign the *Module_InputTag* to the module's :I controller tag (e.g. ::PAC.Local:3:I) and *Module_OutputTag* to the module's :O controller tag (e.g. ::PAC.Local:3:O).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	Faceplate navigation button with string tag label. Use Properties > General > Text to modify the button label text.	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSpeciality_50xx	Use with 5069 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchHSC_17xx	Use with 1734/1756/1769 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	
GO_LaunchSpecialty_5094	Use with 5094 Specialty Modules	InitialTab: 11 Module_InputTag: IO Module Input Tag Module_OutputTag: IO Module Output Tag	

Faceplates

There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

In this document, the faceplate pictures (or snapshots) are shown in FactoryTalk® View ME. Faceplates will look similar in FactoryTalk® View SE or Studio 5000 View Designer®. Number of I/O channels and minor details may vary depending on the exact I/O module.

The faceplate title is linked to *Module:I.@description*, the *.@description* extended tag property of the module's input tag instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

Name	Description	Data Type
R1756:2:I	1756-SOE	AB:1756_SOE_16PointCIPSync:I:0
R1756:2:C	1756-SOE	AB:1756_SOE:C:1
R1756:7:I	1756-OF8H	AB:1756_OF8H_AnalogHARTbyChannel...
R1756:11:I	1756-OF8	AB:1756_OF8_Float:I:0
R1756:6:I	1756-OBV8S Sourcing	AB:5000_SDO8:I:0
R1756:10:I	1756-OB32	AB:1756_DO:I:0
R1756:5:I	1756-OB16D	AB:1756_DO_DC_Diag:I:0
R1756:4:I	1756-IF16H	AB:1756_IF16H_AnalogHARTbyChannel...
R1756:9:I	1756-IF8	AB:1756_IF8_Float:I:0
R1756:8:I	1756-IB32	AB:1756_DI:I:0

The channel descriptions are linked to the channel tag's *.@Description* field.

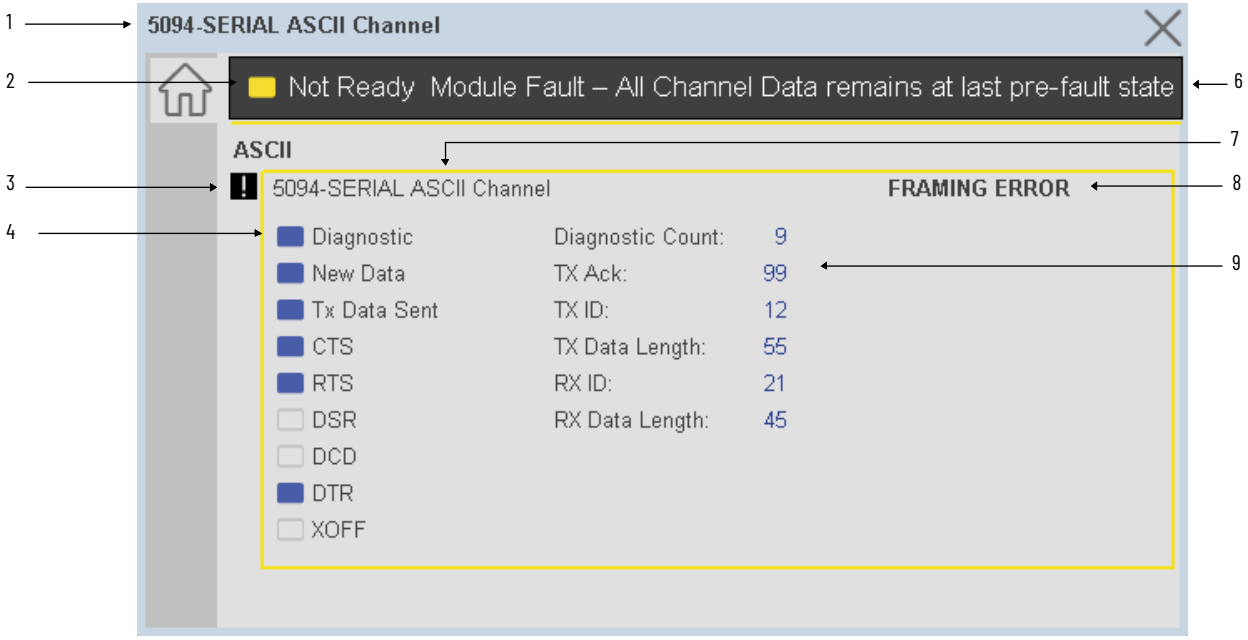
Failure to fill in these tags will result in HMI diagnostic errors. These tags can be filled out using Studio 5000 Application Code Manager.

Name	Description	Data Type
R5094:9:I1	5094-SERIAL Modbus Slave Channel	AB:5000_ModbusSlave:I:1
R5094:9:I00	5094-SERIAL Modbus Master Channel	AB:5000_ModbusMaster_Status_2CC6E45D:I:1
R5094:10:I0	5094-SERIAL ASCII Channel	AB:5000_ASCII:I:1

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information. Home tabs vary based on the type of module and serial channel type.

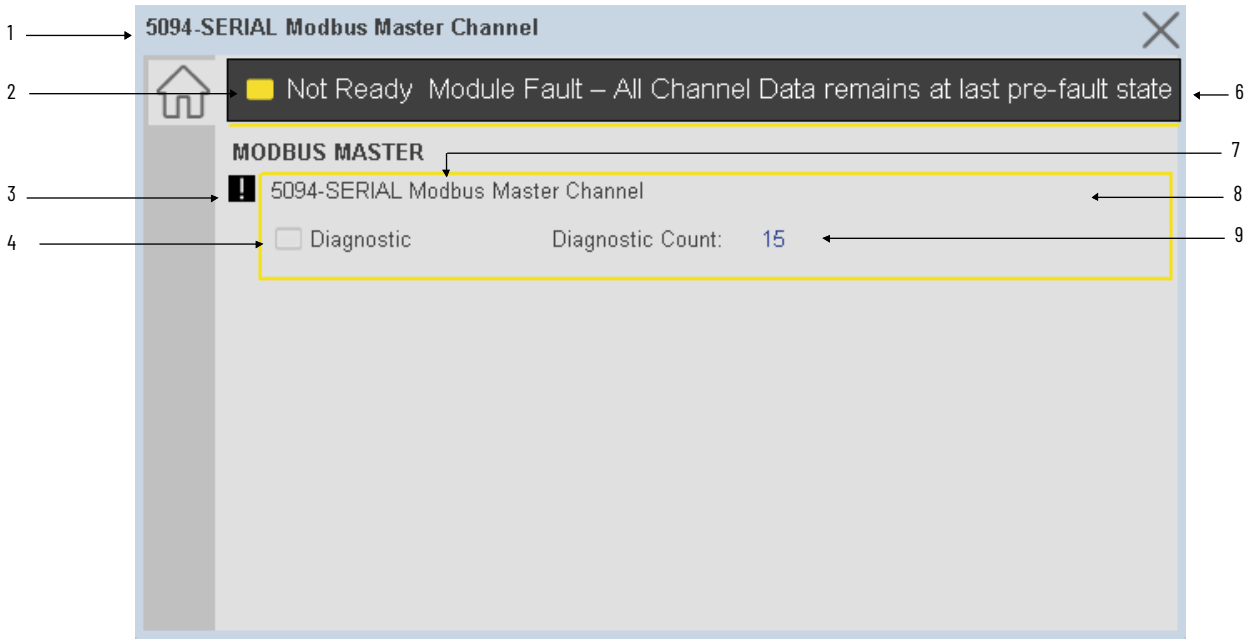
50xx ASCII Channel



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Fault Indication. "!" icon and yellow border.	
4	Channel Status: - Diagnostic Active - New Data - Tx Data Sent - CTS - RTS - DSR - CDC - DTR - XOFF	
	BLUE = Active/High	
	GREY = Inactive/Low	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	

Item	Description
7	Channel description. Channel:I.@Description
8	Channel Fault Details: - Non Delimited Record - Rx Data Length Invalid - Tx Data Length Invalid - Handshake Error - Break Interrupt - Buffer Overrun - Rx FIFO Empty - Tx FIFO Empty - Framing Error - Tx Data Lost - Rx Data Lost - Uncertain - Parity Error
9	Channel Data: - Diagnostic Count - Tx Ack Count - Tx ID - Tx Data Length - Rx ID - Rx Data Length

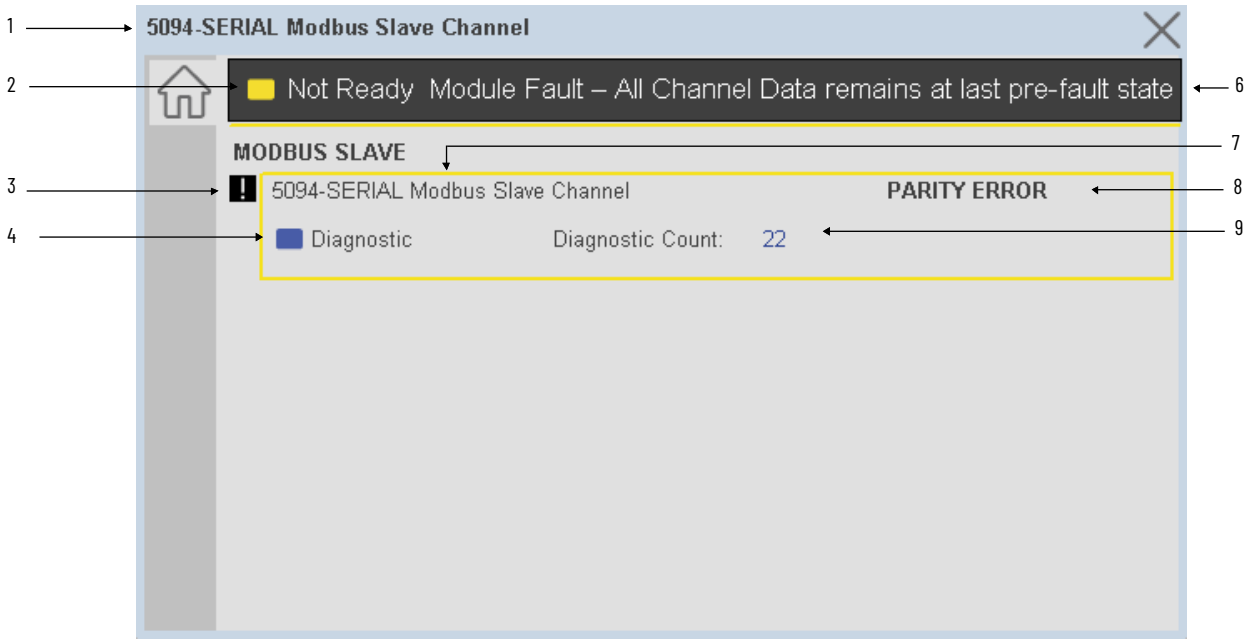
50xx Modbus Master Channel



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Fault Indication. "!" icon and yellow border.	

Item	Description	
4	Channel Status: - Diagnostic Active	
	BLUE = Active/High	
	GREY = Inactive/Low	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Channel:I.@Description	
8	Channel Fault Details: - Uncertain	
9	Channel Data: - Diagnostic Count	

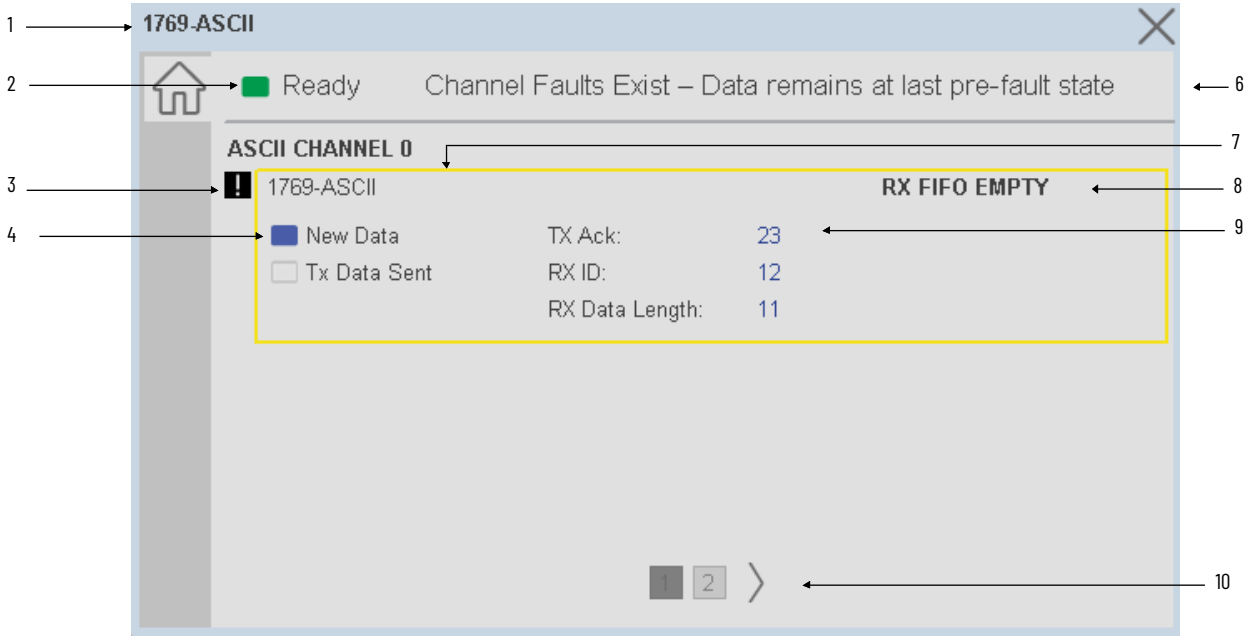
50xx Modbus SlaveChannel



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Fault Indication. "!" icon and yellow border.	

Item	Description	
4	Channel Status: - Diagnostic Active	
	BLUE = Active/High	
	GREY = Inactive/Low	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Channel:I.@Description	
8	Channel Fault Details: - Uncertain - Illegal Data Address - CRC LRC Error - Buffer Overrun - Framing Error - Parity Error	
9	Channel Data: - Diagnostic Count	

1769-ASCII Channel

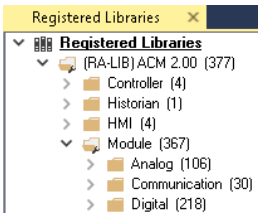


Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready
3	Channel Fault Indication. "!" icon and yellow border.	

Item	Description	
4	Channel Status: - New Data - Tx Data Sent	
	BLUE = Active/High	
	GREY = Inactive/Low	
6	Module/Channel Fault status text. May display the following: - Module Fault - All Channel Data remains at last pre-fault state - Channel Fault Exists - Data remains at last pre-fault state	
7	Channel description. Channel:I.@Description	
8	Channel Fault Details: - Non Delimited Record - Tx Data Overflow - Handshake Error - Tx FIFO Empty - Rx FIFO Empty - Rx Data Lots - Tx Data Lost - Parity Error	
9	Channel Data: - TX Ack - RX ID - Rx Data Length	
10	Page navigation. One page per ASCII channel.	

Application Code Manager

The IO Device Library can be used with Studio 5000® Application Code Manager to configure all required I/O for a project. All I/O modules can be found in the *(RA-LIB) ACM 2.00* Library within the *Module* folder.



Refer to the section Using Application Code Manager for complete details.

Module Object Parameters

Each module object (e.g. 5094-SERIAL) has parameters which can be configured in Studio 5000® Application Code Manager prior to Controller code generation.

Parameter Name	Default Value	Description
FPLaunch_Button_Label	[ModuleName]	Module:I.@Descroption tag and shown on basic text launch buttons.
SEAssocDisplay		Associated HMI SE Display
MEAssocDisplay		Associated HMI ME Display
Slot	Next Available	This is the slot that this module is located in.

Parameter Name	Default Value	Description
RPI	20	This is the RPI of the module (ms).
ChassisName	[ChassisName]	This is the Chassis that this module is located in.
Channel0	Disabled	Serial channel type (5069/5094 only) - Disabled - Generic ASCII - Modbus Master - Modbus Slave
Channel1	Disabled	Serial channel type (5069/5094 only) - Disabled - Generic ASCII - Modbus Master - Modbus Slave
NavigationButton	GraphicalButton	Select navigation button type.

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	GO_LaunchFP	Global Object generic rectangular text launch button
Launch Button	GO_LaunchSpeciality_50xx	Use with 5069 Specialty Modules
Launch Button	GO_LaunchHSC_17xx	Use with 1734/1756/1769 Specialty Modules
Launch Button	GO_LaunchSpecialty_5094	Use with 5094 Specialty Modules

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images
V5_IO_Device_HMI_Tag	HMI Tag	FTViewStudio_IOLibrary_Tags_5_xx.CSV	{ProjectName}\Visualization\

Redundant Adapter 1756-EN4TR

Overview

1756-EN4TR redundant adapter module objects include Studio 5000® Application Code Manager modules, HMI faceplates for FactoryTalk® View ME/SE and Studio 5000 View Designer®, and an Add-On Instruction (AOI).

The redundant adapter feature is available for 1756-EN4TR modules when used as remote adapters and the modules must be installed in slots 0 and 1 of the remote chassis. The benefit of this feature is increased reliability of the remotely located ControlLogix I/O modules. For more information on redundant adapters, refer to the ControlLogix EtherNet/IP Network Devices User Manual.

- HMI faceplates provide the following information:
  - Status of redundant adapter pair
  - Primary module IP address
  - Primary module slot number
  - Primary module status
  - Partner module status
  - Information on when a qualification of the partner module is occurring
  - Port status indicator for each Ethernet port within the redundant adapter pair

Required Files

IO Device Objects include HMI faceplates. For the 1756-EN4TR redundant adapter, controller programming includes the creation of the I/O modules in the project and use of an AOI to manage the redundant adapter information. If using FactoryTalk® View ME/SE you must also import the tag import file FTViewStudio_IOLibrary_Tags_5_00.CSV to support navigation on faceplates with multiple tabs or pages

Note that the revision numbers (e.g. 5.03) used in filenames below can change as new revisions are created.

Controller Files

Add-On Instructions are reusable code objects that contain encapsulated logic that can streamline implementing your system. This lets you create your own instruction set for programming logic as a supplement to the instruction set provided natively in the ControlLogix® firmware. An Add-On Instruction is defined once in each controller project, and can be instantiated multiple times

in your application code as needed.

The Add-On Instruction must be imported into the controller project to be used in the controller configuration. These can be imported as Add-On Instruction files, or as part of the Rung Import or Import Library Objects wizard.

All Add-On Instruction and Rung Import files can be found in the */Studio 5000 Logix Designer Files - L5X/* folder in the library.

Device/Item	Compatible Modules	Add-On Instruction	Rung Import
EN4TR	1756-EN4TR	raC_Dvc_1756_EN4TR_5.03_AOI.L5X	raC_Dvc_1756_EN4TR_5.03_Rung.L5X

FactoryTalk® View HMI Files

FactoryTalk® View ME/SE applications require importing the desired device faceplates in addition to all Global Object (ggfx) files and all images located in the */HMI FactoryTalk® View Images - png/* folder of the library. FactoryTalk® View ME files are stored in the */HMI - FactoryTalk View ME/* library folder and FactoryTalk® View SE files are stored in the */HMI - FactoryTalk View SE/* library folder.

GGFX Global Object Files

Device/Item	Compatible Modules	FactoryTalk® View SE Faceplate	FactoryTalk® View ME Faceplate
Graphic Symbols	All IO Modules	(raC-5-SE) Graphic Symbols - IO Device	(raC-5-ME) Graphic Symbols - IO Device
Toolbox	All IO Modules	(raC-5-SE) Toolbox -IO Device.ggfx	(raC-5-ME) Toolbox -IO Device.ggfx

GFX Display Files

Family	Module	Variation	FactoryTalk View SE Faceplate	FactoryTalk View ME Faceplate
1756	1756-EN4TR	N/A	(raC-5_03-SE) raC_Dvc_1756_EN4TR-Faceplate.gfx	(raC-5_03-ME) raC_Dvc_1756_EN4TR-Faceplate.gfx

Studio 5000 View Designer HMI Files

All Studio 5000 View Designer Files can be found in the */HMI - ViewDesigner - vpd/* folder of the library. Each I/O family (e.g. 1756) has a single .VPD file which contains faceplate screens for all I/O modules in that family.

Family	View Designer File	Module	Variation	View Designer Screen
1756	raC_Dvc_1756_EN4TR .vpd	1756-EN4TR	N/A	raC_Dvc_1756_EN4TR_FP

Studio 5000® Application Code Manager Files

Studio 5000® Application Code Manager (ACM) can be optionally used if it is installed. All devices can be easily registered in the ACM repositories by running the *setup.cmd* file located in the root folder of the library.

Individual HSL4 files are provided as an alternative to running the setup.cmd to allow users to manually register specific implementation objects. Each object has two files - an Asset Control file and a Device file. The Module files include attachments of all required files for that object.

All Studio 5000® Application Code Manager files can be found in the /*ApplicationCodeManagerLibraries*/ folder of the library. The files included are as follows:

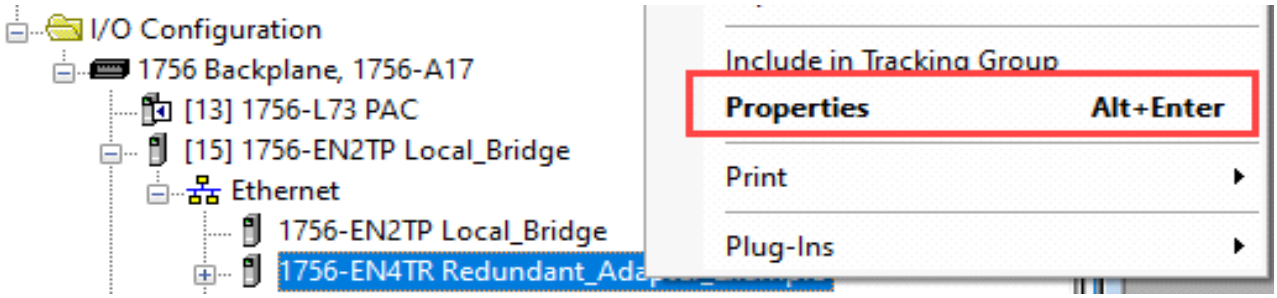
Implementation Object	Compatible Modules	Asset Control File (.HSL4)	Device File (.HSL4)
1756-EN4TR	1756-EN4TR	(RA-LIB)_Device_Asset-Control_IO-Device_raC_Dvc_1756_EN4TR_(5.4).HSL4	(RA-LIB)_Device_Device_IO-Device_raC_LD_Dvc_1756_EN4TR_(5.4).HSL4

Device Definition

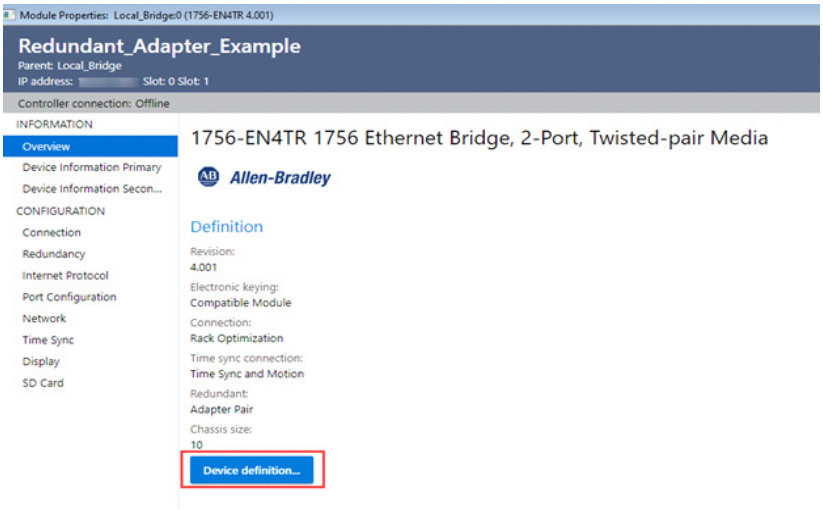
The 1756-EN4TR must be configured with the correct device definition. Proper module configuration is required to use the redundant adapter feature and leverage the associated Add-On instruction and faceplate.

To verify the device definition:

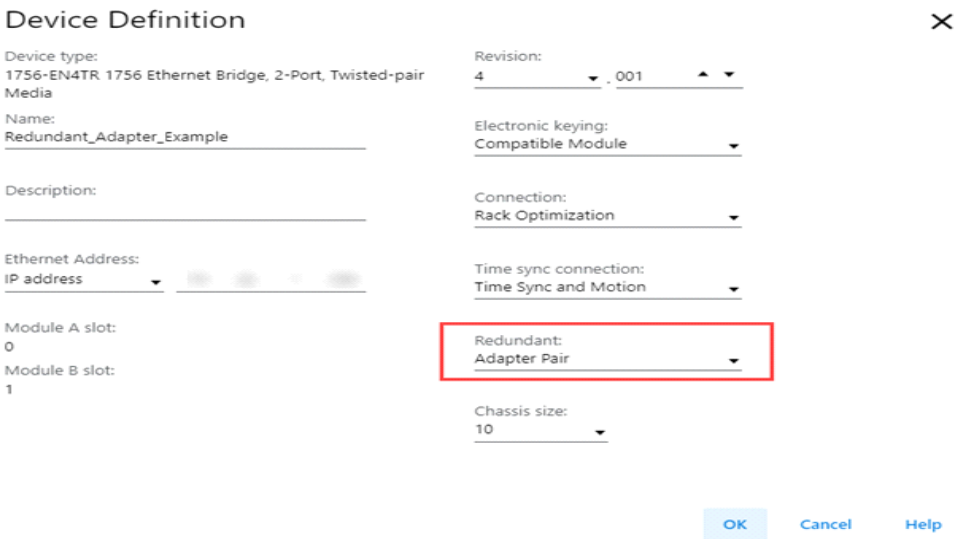
Find the device in the Controller Organizer pane in Studio 5000 Logix Designer® and open the Module Properties by double-clicking or right-click and select Properties.



On the Overview tab click on the Device Definition button.

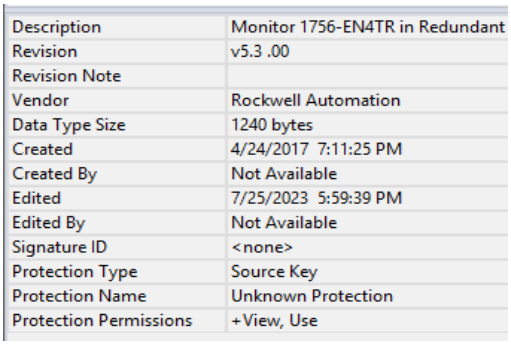
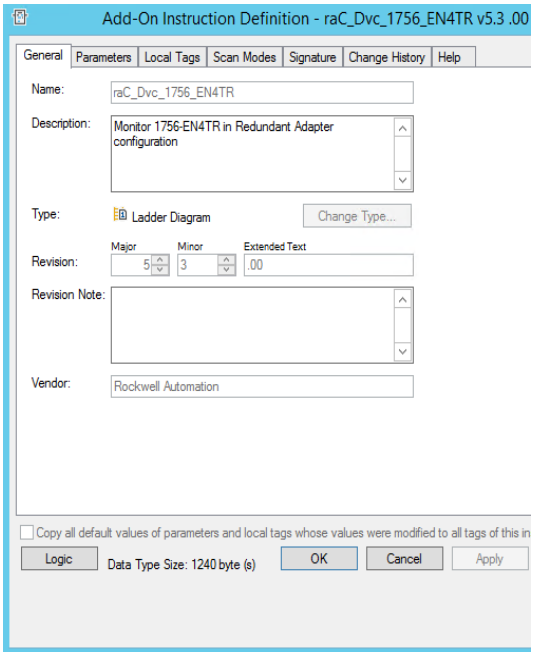
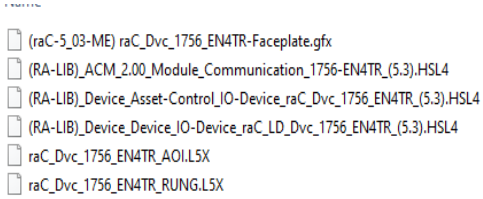


Ensure Redundant field is set to Adapter Pair.



Library Versions

Each library object has a revision x.yy where: x is the Major Revision number and yy is the Minor Revision number. Each release of the library comes with release notes that describe the changes that were made since the last release. You can find the revision number of the object in a number of locations as shown below.

Component	Example
The Add-On Instruction in Logix Designer application has revision information visible when the instruction is selected in the Controller Organizer.	
The Add-On Instruction Definition General tab shows the revision number along with basic revision notes. Refer to the release notes for complete revision notes.	
The faceplate in FactoryTalk View software has revision information visible when the pointer is clicked just inside the lower left corner of the faceplate.	
The revision number is shown in the file names for GFX, VPD, ACM.HSL4, AOI.L5X, and RUNG.L5X files.	

Add-On Instruction I/O Data

InOut Data

InOut	Function / Description	DataType
Inf_Lookup	Code / Description List Entry	raC_UDT_LookupMember_STR0082[2]
Ref_Ctrl_Cmd	Automation Device Command Interface - IODevice	raC_UDT_ItfAD_IODevice_Cmd
Ref_Ctrl_Inf	Automation Device Information Interface - IODevice	raC_UDT_ItfAD_IODevice_Inf
Ref_Ctrl_Set	Automation Device Setting Interface - IODevice	raC_UDT_ItfAD_IODevice_Set
Ref_Ctrl_Sts	Automation Device Status Interface - IODevice	raC_UDT_ItfAD_IODevice_Sts
Ref_Module	Address in I/O tree of redundant adapter pair	Module
Ref_MsgData	General messaging data	SINT[100]
Ref_MsgCustGetAll	General messaging data	MESSAGE
Ref_MsgGetAttrSgl	General messaging data	MESSAGE

Note that the 1756_EN4TR_RedAdapter device object has several InOut Parameters for MSG instructions which are required to communicate with the redundant adapter pair. These controller scoped tags are automatically imported when using Application Code Manager or importing the RUNG.L5X file. Ensure the Destination Elements for each MSG are set to unique tags when using multiple instances of the object.

Input Data

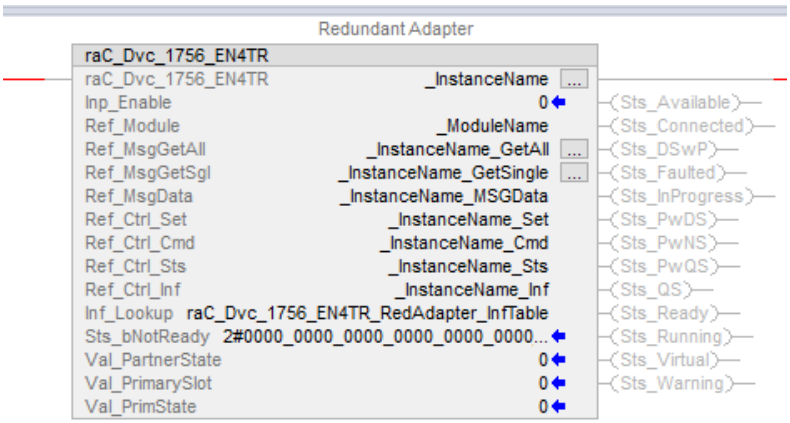
Input	Function / Description	DataType
Inp_Enable	Trigger for AOI	BOOL
EnableIn	Enable Input - System Defined Parameter	BOOL

Output Data

Output	Function / Description	DataType
Val_LinkStsWordPrim1	Status of port 1 on the primary adapter module	DINT
Val_LinkStsWordPrim2	Status of port 2 on the primary adapter module	DINT
Val_LinkStsWordSec1	Status of port 1 on the secondary adapter module	DINT
Val_LinkStsWordSec2	Status of port 2 on the secondary adapter module	DINT
Val_ModuleStatus	Module status	DINT
raC_Dvc_1756_EN4TR_Red Adapter	Unique Parameter Name for auto - discovery	BOOL
Sts_Available	Device is available for interaction with user code	BOOL
Sts_bNotReady	Bitwise device 'not ready' reason	DINT
Sts_Connected	Device is connected to the Programmable Automation Controller	BOOL
Sts_DSwP	Disqualified secondary with primary	BOOL
Sts_Faulted	Device faulted status: 1 = an active fault exists	BOOL
Sts_InProgress	Qualification attempt in progress	BOOL
Sts_InhibitCmd	Disable Command inputs from external sources	BOOL
Sts_InhibitSet	Disable Setting inputs from external sources	BOOL
Sts_PartnerState	State of partner module in redundant adapter pair	INT
Sts_PrimarySlot	Current primary slot of redundant adapter (0 or 1)	DINT
Sts_PrimState	State of primary module in redundant adapter pair	INT
Sts_PwDS	Primary with disqualified secondary	BOOL
Sts_PwNS	Primary with no secondary	BOOL
Sts_PwQS	Primary with qualified secondary	BOOL
Sts_QS	Qualified secondary	BOOL
Sts_Ready	Device is ready to perform primary function	BOOL
Sts_Running	At least one remote adapter of the redundant pair is running	BOOL
Sts_Virtual	Virtual device status: 1 = Device is operating as a 'virtual' device	BOOL
Sts_Warning	Device warning status: 1 = an active alarm or warning exists	BOOL
Sts_InvalidPath	It shows an invalidpath error when entering the long path	BOOL
EnableOut	Enable Output - System Defined Parameter	BOOL

Programming Example

Fully configured device on a rung is provided below for reference. Note that this programming example is the same code that is imported when either importing the supplied RUNG.L5X files or when using Application Code Manager or the Studio 5000® Import Library Objects wizard plug-in.



The device (1756-EN4TR redundant adapter pair) must also be configured with the correct device definition. Note that this configuration is completed automatically when using Application Code Manager or the Studio 5000® Import Library Objects wizard plug-in. For details on setting up the device, refer to the Device Definition section.

Graphic Symbols

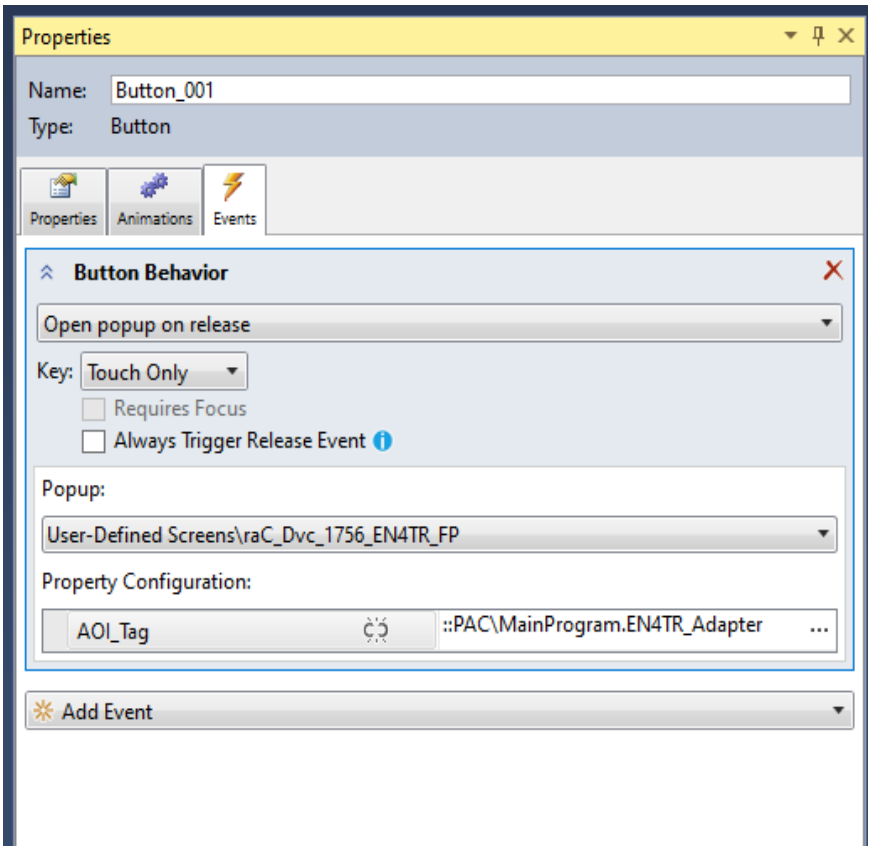
Graphic Symbols are used as launch buttons within HMI applications to open up faceplate displays. A generic rectangular pushbutton with a text label can be used, or a graphical style button with abnormal indicator icons can be used. See Basic Launch Button Attributes section for details on configuration and indicators.

FactoryTalk® View ME/SE Graphic Symbols

Graphic Symbol Name	Description	Global Object Parameter Values	Graphic Symbol
GO_GotoDisplay4	Faceplate navigation button with string tag label.	#102: Add-On Instruction Backing Tag e.g. ({::[Topic Name]Redundant_Adapter_AOI_Example}) #105: Custom button label. Leave blank to use Tag.@Description #120: Display's left position #121: Display's top position	
GO_LaunchEN4TR_RedundantAdapter_1756	Use with 1756-EN4TR Modules	#102: Add-On Instruction Backing Tag e.g. ({::[Topic Name]Redundant_Adapter_AOI_Example}) #120: Display's left position #121: Display's top position	

Studio 5000 View Designer® Graphic Symbols

All Studio 5000 View Designer® graphic symbols must be configured with an *Event* to open up the appropriate Popup screen. Select the graphic symbol and in the *Properties* window navigate to the *Events* tab. Assign a *Button Behavior* event to *Open popup on release*. Assign the required Popup screen (e.g. User-Defined Screens\raC_Dvc_1756_EN4TR_FP).



Graphic Symbol Name	Description	Properties - Events Configuration	Graphic Symbol
Button_001	The supplied launch button in View Designer is used to navigate to the faceplate in a user application.	AOI_Tag: Object's Add-On Instruction Tag	Button
GO_LaunchComm_1756_EN4TR	Use with 1756-EN4TR Modules	AOI_Tag: Object's Add-On Instruction Tag	EN4TR

Faceplates

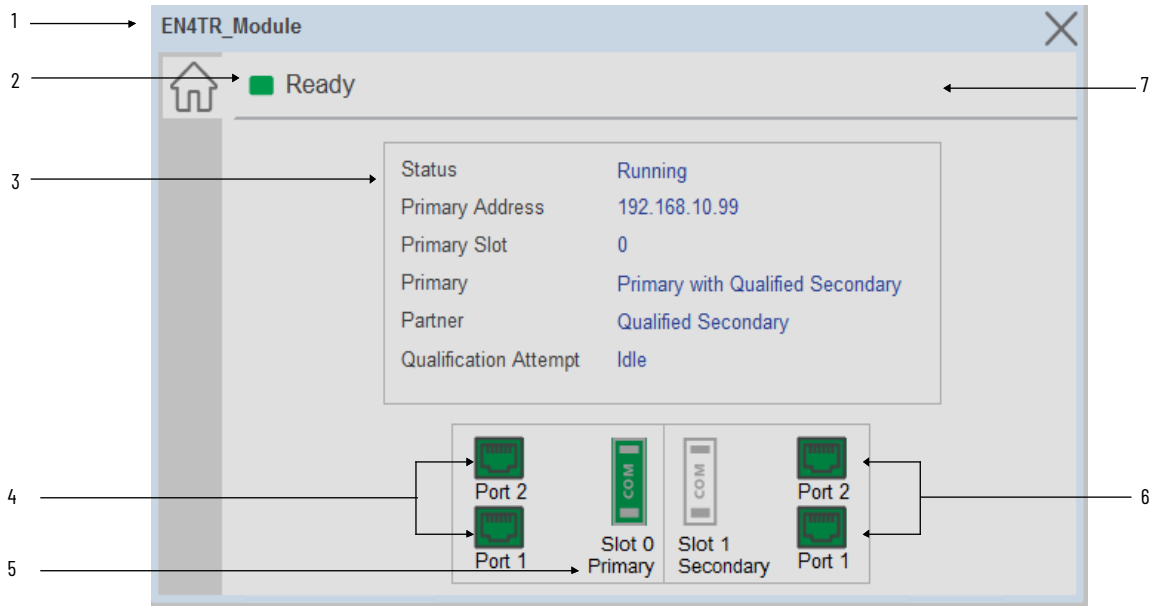
There are basic faceplate attributes that are common across all instructions. See Basic Faceplate Attributes on page 40.

The faceplate title is linked to *_InstanceName.@description*, the *.@description* extended tag property of the Add-On Instruction instance. This is user-configurable from controller/program tags in Studio 5000 Logix Designer.

Name	Description
Module_EN4TR	EN4TR_Module
Module_EN4TR_Inf	Automation Device Information Interface - IODevice
Module_EN4TR_Cmd	Command Interface
Module_EN4TR_Set	Setting Interface
Module_EN4TR_Sts	Status Interface

Home

The Home tab is the main tab of the faceplate. I/O channel data and fault information. The banner at the top of the faceplate displays module status and fault information. Home tabs vary based on the type of module and serial channel type.



Item	Description	
1	Faceplate title bar. Display's Module:I.@Description	
2	Module ready status.	
	GREEN = Ready	Ready
	YELLOW = Module Fault/Not Ready	Not Ready

Item	Description	
3	Redundant adapter pair status information overview	
4	Slot 0 Port status	
	Green = Active	
	Gray = Inactive	
5	Current location of Primary and Secondary slots	
6	Slot 1 Port status	
7	Green = Active	
8	Gray = Inactive	
9	Module/Channel Fault status text. May display the following: - Module Fault – Neither Adapter is Running - AOI Not Enabled – All Data remains at last enabled state	

Application Code Manager

IO-Link Device Library objects can be set-up and configured using Studio 5000 Application Code Manager.

Refer to the section Using Application Code Manager for complete details.

Definition Objects: raC_Dvc_1756_EN4TR

This Asset-Control object contains the Add-On Instruction definition and required data types. It is used as a linked library to the device implement object. This gives users the flexibility to choose to instantiate only definition and create custom implement code. A user may also create their own implement library and link with this definition library object.

Implementation Objects: raC_LD_Dvc_1756_EN4TR

The Device Implementation Object is the rung that is instantiated when generating controller code using Application Code Manager. This implementation object includes a reference to the Asset-Control Add-On Instruction definition, along with any required controller tags, programs, modules, and HMI objects.

Parameter Name	Default Value	Instance Name	Definition	Description
RoutineName	{ObjectName}	{RoutineName}	Routine	Enter Routine name. Routine will be created and Object implement rung(s) inserted. A JSR will be inserted in MainRoutine. If routine name already exists, then object will be inserted into existing routine. By default, parameter is set to Object Name.
TagName	{ObjectName}	{TagName}	Backing Tag	Enter the backing tag of the main AOI. This will serve as the base tag name for other tags in this object that are derived from the base.
TagDescription	{ObjectDescription}	{TagDescription}		Tag Description of the main AOI backing tag
ModuleReference	ModuleReference			Select the EN4TR module.
NavigationButton	GraphicalButton			Select Navigation Button type.

Configured HMI Content

HMI Content	Instance Name	Description
Launch Button	{ObjectName}_GO_LaunchFP	Global Object configured callout instance

Attachments

Name	Description	File Name	Extraction Path
V5_raC_Dvc_Globall	Graphic Symbols ME	(raC-5-ME) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewME\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate ME	(raC-5_xx-ME) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewME\Displays
V5_raC_Dvc_Globall	Graphic Symbols SE	(raC-5-SE) Graphic Symbols - IO Device.ggfx	{ProjectName}\Visualization\FTViewSE\Global Object
V5_raC_Dvc_*FAMILY_MODULE*	Faceplate SE	(raC-5_xx-SE) raC_Dvc_*FAMILY_MODULE*-Faceplate.gfx	{ProjectName}\Visualization\FTViewSE\Displays
V5_raC_Dvc_*FAMILY*	View Designer	(raC-5_xx-VD) raC_Dvc_*FAMILY*IO_wDesc.vpd	{ProjectName}\Visualization\ViewDesigner\Displays
V5_RM_raC_Dvc_IO	Reference Manual	DEVICE-RM200x-EN-P.pdf	{ProjectName}\Documentation
V5_IO_Device_Images	HMI Image Set	HMI FactoryTalk® View Images - png.zip	{ProjectName}\Visualization\Images

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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Waste Electrical and Electronic Equipment (WEEE)

At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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