

Foxboro[™] DCS

Foxboro[™] DCS and I/A Series[®] Tools Suite

PSS 41S-7SwTools

Product Specification

September 2022





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Overview

The EcoStruxure[™] Foxboro[™] DCS and I/A Series[®] Tools Suite is a collection of tools that make Foxboro[™] DCS Control Core Services and the I/A Series more useful and applications easier to develop.

The suite consists of these products:

Product	Description	
CCSCopy	Copies files and folders to a single or to multiple Foxboro DCS workstations/servers.	
cpShell	Supports the execution of programs and scripts from sequence blocks.	
FBMTrack	Allows rapid identification of all blocks associated with a particular FBM. In addition, this utility graphically illustrates the in-use I/O points per FBM and provides quick access to the FoxView [™] Detail Display for the related control block.	
FVTimer	Closes idle non-primary FoxView display managers.	
Message Logger	Allows real-time capture of messages sent by the APRINT message system which can be forwarded to serial port(s) or logged to ASCII files for later use with the Message Logger reporting feature.	
OAJRelay and SMONRelay	Intercepts Operator Action Journal (OAJ) and System Monitor messages and relays them to user-defined destination names on the control network.	
SSCSupport	Supports those programs that cannot read and manipulate the status bits required to implement Supervisory Setpoint Control, provides a means of tying external computers to control blocks with a minimum effort.	
TagSearch	Provides quick access to the FoxView Detail Display for a specified control block. This utility supports filtering by block name.	

CCSCopy

The CCSCopy utility copies selected files and folders to Foxboro DCS workstations/ servers residing on the same control network or alternate network.

CCSCopy				– 🗆 ×
Current Job: 1VAWB3 Clean Target Directories	Clear All Remove Selected	D:\opt\fox\env		
Run CCSCopy	Files to copy: 5 D:\op/Vox\env\AOSTst.ecl	File Explorer Panel:	Add Files for Copy	Include Sudirectories
Results	D:\optVas\env\ADSTst.dbr D:\optVas\env\ADSTst.dbr D:\optVas\env\ADSTst.dms	AMSGM7 ASMDW7	Select All	Filter AOS*
VewLogs OpenLogsFolder	D:\opf\/dos\env\ADSTst.env D:\opf\/dos\env\ADSTst.mbr	B-ASMOW7 B-ASMON7 B-bin	File Select	
Copy Job List New Job Name		⊕ ciocfg - cio ⊕ dd		
		@-dd_1 @-dd_1_43		
Save Job		 BeviceNetDig Bedipilo 		
Delete Job		- env - fbm223		
		fbm224 B- IACTRL		
Target Stations: Edit Refresh		LAMESH LASVCS		
Select All Select None		⊛-iom ⊛-mm		
Station Count: 1		 ⊕- 0\$1A38 ⊕- 0\$1A70 		
151.128.152.1 1AW92A A 151.128.152.10.1VAWA4 151.128.152.11.1VAWA5		⊕ 0\$1ACM ⊕ 0\$1C30		
151.128.152.12 1VAWA6 151.120.152.13 1VAWA7		 051C38 051C40 		
151.128.152.14 1VAWA8 151.128.152.15 1VAW01 151.128.152.16 1VAW82		 ii) 051C48 iii) 051C60 		
151120152121VAW03		⊕-051C70 ⊕-051C80		
,	1	⊕-0\$1CNI		

Files and folders can be copied using the CCSCopy user interface or from the **Send** to **> CCSCopy** shortcut.

Bone Share View					- 0
+ + + This PC > IA(D) >	apt > fax > env			v ð Search env	
NutTrash4	 Name 	 Date modified 	Туря	Size	
opt	D about, ia	2/2/2021 9/38 AM	File	1 KB	
AICC7	additional fv	2/2/2021 9/38 AM	File	1 KB	
aim	A055t.ad	2/2/2821 9:38 AM	ACL File	1.08	
ASMON7	A05Titt.dbr	2/2/2521 9-38 AM	DBR.File	2 KB	
cutom	A05Tit.dms	2/3/2021 6-38 444	DARLES.	0.08	
customer	A05Tit.env	Scan with Windows Defer	der	1 KB	
dia	AOSTit.mbr	Send to	>	Buetooth device	
dig.40	dispumou	Cut		CCSCepy	
	dep_eng.mo	Copy		Compressed (sippe	d) folder
fox	C fiemeu			Desktop (create sho	stcut)
AMSGM7	help.mnu	Create shortcut		2 Mail recipient	
ASMOWT	help_eng.mn			- ia (1/10.228.137.95)	(2)
ASMON7	Dividual div	Rename		1 KB	
bin	Initial env	Properties		11/8	
📒 ciodig	Initial.mbr	2/2/2021 9:30 AM	MOR File	110	
Cia	D topin.mmu	2/2/2021 9:38 AM	MINU File	1 KB	
dd dd	objimnu	2/2/2021 9/38 AM	MNU File	11/8	
dd_1	bij eng.mnu	2/2/2021 9/38 AM	MNU File	1 KB	
66,1,43	Operator.acl	2/2/2021 9/38 AM	ACL File	1 KB	
DeviceNetOlg	Operator.dbr	2/2/2521 9/38 AM	DBR File	1 KB	
diplb	Operator.env	2/2/2521 9/38 AM	DVI/File	1 KB	
	Operator.mb	2/2/2021 9:38 AM	MDR File	1 KB	

Copy Jobs can be saved for future use.

cpShell

cpShell is used to run programs when certain conditions are detected or to log information about the process. cpShell supports the execution of programs and scripts from sequence blocks. Sequence blocks can send a message to the cpShell software in the same manner as any other device. However, when cpShell receives the message, the cpShell process treats it as a command to execute. Each command is run separately.

FBMTrack

When an FBM fails, the plant needs to identify the control loops associated with the failed device quickly and easily. FBMTrack presents either all I/O blocks or all FBMs in a system on a display that quickly allows the identification of all blocks associated with a particular FBM.

In addition, this utility can indicate which of the I/O points in the FBM are in use and it can raise the FoxView Detail Display for the selected block.

The FBMTrack software also provides user-specified block filters so that only blocks of interest are shown.

🖳 FBMTrack for Window	15	
By Block Name	By FBM Name	FBM:
		Blocks on FBM:
Al1CH1_6C AIN1 AIN2 A01CH1_6C BIN1CH1		
BIN1CH1_6C BIN1CH2_6C BIN1CH3_6C BIN2CH1		
BIN2CH1_6C BIN2CH2_6C BIN3CH1_6C		PV [ACB FIITI TIITI FV
Filters:		_LV ZSC
		Build Exit

FVTimer

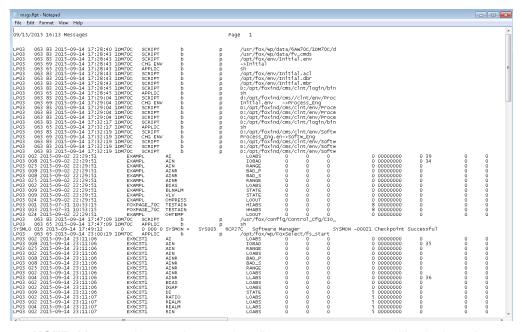
The FVTimer utility closes non-primary idle FoxView display managers using configurable exit timers.

When a configured FoxView display manager starts, FVTimer tracks the instance for periods of inactivity. When the inactivity time exceeds the configured exit time, the display manager closes.

Message Logger

Message Logger allows real-time capture of Process Messages (Alarms and Sequence), System Monitor messages, and Operator Action Journal messages - sent by the APRINT message system, which can be sent to a serial device(s) or logged to ASCII files. In addition, these messages are sent on to the target Historians.

Message Logger provides a reporting feature that can be used to create reports from the ASCII file generated, as shown in this image.



NOTE: Message Logger does not handle messages processed by ArchestrA Application Objects, although it can be configured to handle those received from Message Manager.

OAJRelay and SMONRelay

The OAJRelay and SMONRelay utility relays Operator Action Journal (OAJ) and System Monitor (SysMon) messages to user-defined destination names on the control network.

OAJRelay and SMONRelay can be configured to capture incoming messages for up to twenty process names and relay those messages on to defined OAJ and SysMon destinations on the control network.

The OAJRelay and SMONRelay application supports up to twenty OAJ destinations and up to twenty SysMon destinations.

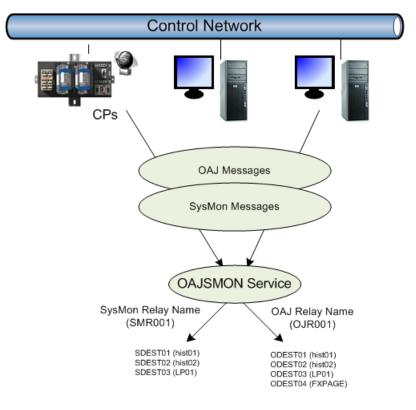


Figure 1 - OAJRelay and SMONRelay Data Flow

SSCSupport

Using the SSCSupport Configurator, SSCSupport provides these services:

- Supports the grouping of control blocks (AOUT family, PID family, or RATIO) into a "Controller" interface or application.
- Supports mapping externally generated setpoints and acknowledgement flags into the Supervisory Input (SUP_IN) of the selected blocks.
- Supports the automatic construction of a graphic that displays the Supervisory Control Status of each of the selected control blocks.

The program serves as a running example of the logic used by supervisory applications and as a means of tying external computers to control blocks with a minimum of effort.

🖳 Control of SSC M	anning for SSC		
Application Name:	ssc 💽		
Select a Controller Block: AV201 DPIDA FC101 FIC101 FIC107 FIC201 FIC201 FIC201 FIC201 FIC201 FIC201 FIC201 FV210 FV210 EV210 LIC103	Compound:	Select a Controller to Remove It or to See Selected Controllers:	e its AO Name UF Mode:
Block Filter:	Compound Filter:	Add Selected Controller Controller(s)	Graphics Build Pick DM View
Rebuild Block Lis	tApplication Obj	ect Name: Last update: 3/5/2015 9:52:58 AM	Mapping Start C Off C On Exit
SSC Support for SS	C ready to go.	SSC - Mappin	ig and sscSupportRT are stopped.

TagSearch

TagSearch provides access to control blocks by block names, which is useful to plants with an ISA naming convention.

By default, the TagSearch software raises the standard detail display on the specified display manager.

Tag Search for Detail D	isplay Access	
Block: A210SUM A2_CKEROFL A2_CKEROFZ A2_HAGOFL A2_HAGOFL A2_LAGOVS A2_LAGOVS A2_LAGOVS A2_STBTM_S ACCUM A102449 A102449 A102450 A1210 AINR AIN_001 ALARMS10A ALARMS10A ALARMS10P ALARMS10T ALARMS11A	Compound:	
Block Filter:	DM Host DM N 54W70A ▼	
	, <u> </u>	
	F	Rebuild Exit

Requirements

The Foxboro[™] DCS and I/A Series[®] Tools Suite currently supports these software versions:

- v8.8 I/A Series[®] Standard or Security Enhanced software with default domain group policies
- v9.0 and later Foxboro[™] DCS Control Core Services Local Edition Enterprise Edition with default domain group policies

NOTE: When using Security Enhanced or Enterprise Edition software, changing the default domain group policies or improperly using or configuring a firewall, including the authorized McAfee® ePolicy Orchestrator (ePO) firewall, can adversely affect the operation of the Foxboro DCS and I/A Series Tools Suite applications. Only qualified personnel should modify Active Directory Group Policies and configure firewalls.

These Foxboro DCS and I/A Series Tools Suite applications require this software to be installed, configured, and running:

Application	Requirements	
CCSCopy	No additional software requirements	
cpShell	No additional software requirements	
FBMTrack	FoxView display managers	
FVTimer	FoxView display managers	
Message Logger	No additional software requirements	
	 If sending messages to a serial device is required, you need a USB-to-Serial Adapter. 	
OAJRelay and SMON Relay	No additional software requirements	
SSCSupport	FoxView display managers	
	• AIM*API	
	 Microsoft SQL Server. Microsoft SQL Server 2017 Express Edition and Microsoft SQL Server 2008 Express Edition are provided with the Foxboro DCS and I/A Series Tools Suite 	
TagSearch	FoxView display managers	
	• AIM*API	

Ordering Information

The Foxboro DCS and I/A Series Tools Suite is sold on a per process basis. The customer is free to use the tools as needed within the unit for which they were purchased. A unit is defined to be a set of System Hardware dedicated to the manufacture of a specific product or set of closely related products. Systems are generally sold to support a particular unit. In this case, only one license is required. However, if the system is running several units in the plant, multiple licenses are required.

Bulk purchases for entire plant sites are available for larger installation or customer configuration. Contact your account representative for details.

Product	Part Number
Foxboro [™] DCS and I/A Series [®] Tools Suite	Q0301JL

WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.p65warnings.ca.gov/.

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Global Customer Support: https://pasupport.schneider-electric.com

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