DataSite Accelerator Toolkit



Quick Start

Hardware Selection System Layout and Wiring **DataSite and Logix Integration DataSite Workbench and Screen Builder Integration FactoryTalk View Integration System Validation**





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Important User Information

Solid state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (publication <u>SGI-1.1</u> available from your local Rockwell Automation sales office or online at <u>http://literature.rockwellautomation.com</u>) describes some important differences between solid state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

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.

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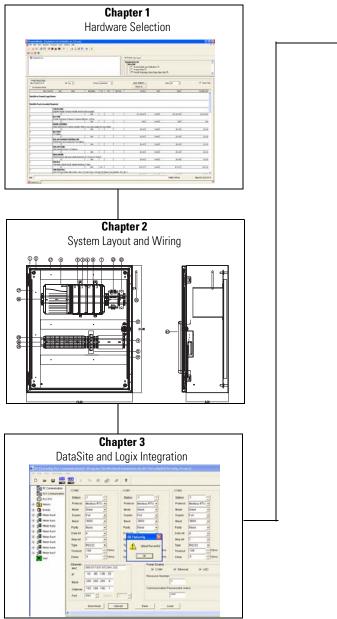
Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

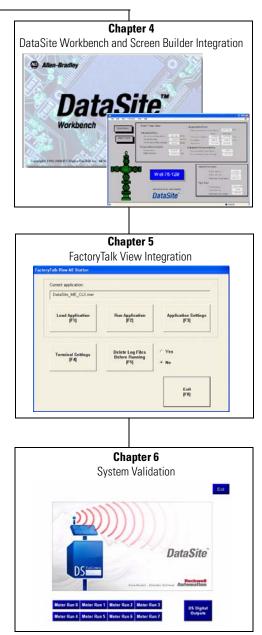
	Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.
IMPORTANT	Identifies information that is critical for successful application and understanding of the product.
	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
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.

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Trademarks not belonging to Rockwell Automation are property of their respective companies.

Follow this path to complete your DataSite application.





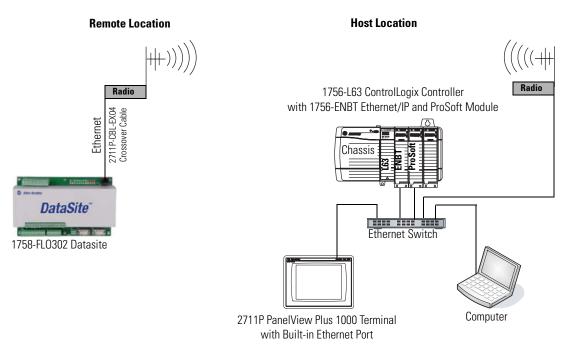
DataSite Configurations

This quick start shows how to set up and configure three functional DataSite configurations.

- DataSite to ControlLogix master (<u>Chapter 1</u> through $\underline{6}$)
- DataSite to FactoryTalk View ME master (<u>Appendix A</u>)
- DataSite to FactoryTalk View SE master with data logging capabilities (Appendix B)

<u>Chapter 1</u> through $\frac{6}{6}$ cover the DataSite to ControlLogix Master configuration. In this configuration, a DataSite unit communicates via RF radio modems to a ControlLogix L63 controller and displays the natural gas flow data on a PanelView Plus 1000 terminal.

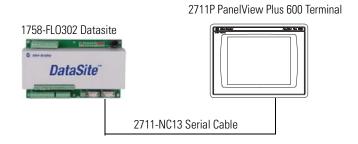
DataSite to ControlLogix Master



All devices connect to Ethernet switch using Ethernet straight-through cables.

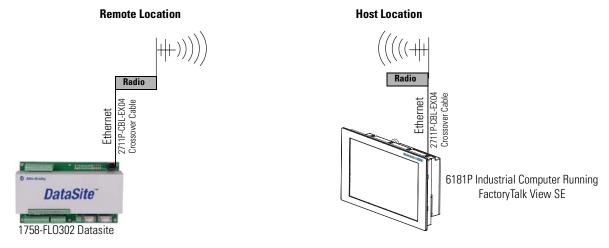
The DataSite to FactoryTalk View ME Master configuration is good for small applications that don't require a ControlLogix controller to poll multiple DataSite units. The PanelView Plus 600 terminal communicates with the DataSite unit using Modbus serial communication.

DataSite to FactoryTalk View ME Master



The Factory Talk View SE Master configuration is good for small applications that don't require a ControlLogix controller but do require data logging capabilities. The industrial computer running FactoryTalk View SE communicates with the DataSite using Modbus TCP/IP Ethernet communication.

DataSite to FactoryTalk View SE Master



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About This Publication

This quick start provides step-by-step instructions on how to set up and configure three functional DataSite configurations.

- DataSite to a ControlLogix master (<u>Chapter 1</u> through $\underline{6}$)
- DataSite to a FactoryTalk View Machine Edition (ME) master (<u>Appendix A</u>)
- DataSite to a FactoryTalk View Site Edition (SE) master with data logging capabilities (<u>Appendix B</u>)

The examples are designed to get devices installed and communicating with each other in the simplest way possible. The programming is not complex and offers easy solutions to verify that devices are communicating properly

To assist in the design and installation of your DataSite configuration, application files and other information is provided on the DataSite Accelerator Toolkit CD, publication IASIMP-SP011. This CD provides CAD drawings for panel layout and wiring, base Logix control programs, FactoryTalk View HMI application files, and more. For a copy of the CD, contact your local Rockwell Automation distributor or sales representative. With these tools and the built-in best-practices design, you can focus on the design of your system and not on design overhead tasks.

IMPORTANT

Before using this quick start and the contents of the DataSite Accelerator CD, read the Terms and Conditions on the CD.

The beginning of each chapter contains the following information. Read these sections carefully before beginning work in each chapter.

- **Before You Begin** This section lists the steps that must be completed and decisions that must be made before starting that chapter. The chapters in this quick start do not have to be completed in the order in which they appear, but this section defines the minimum amount of preparation required before completing the current chapter.
- What You Need This section lists the tools that are required to complete the steps in the current chapter. This includes, but is not limited to, hardware and software.
- Follow These Steps This illustrates the steps in the current chapter and identifies which steps are required to complete the examples using specific networks.

Software Requirements

You need the following software to use this toolkit.

Rockwell Automation Software	Version
DataSite Workbench	5.2
DataSite Screen Builder	1.3
DS FloConfig	1.0
RSLogix 5000	16
FactoryTalk View Studio, including:	5.0
 Machine Edition (ME) 	
Site Edition (SE)	
Proposal Works	6.1
Java Runtime Environment	6, Update 7
DataSite Accelerator Toolkit CD	Not applicable

Conventions

This quick start uses the following conventions.

Convention	Meaning	Example
Click	Click the left mouse button once. (Assumes cursor is positioned on object or selection.)	Click Browse.
Double-click	Click the left mouse button twice in quick succession while the cursor is positioned on object or selection.	Double-click the application icon.
Right-click	Click the right mouse button once while the cursor is positioned on object or selection.	Right-click the Fieldbus Networks icon.
Drag and drop	Click and hold the left mouse button on an object, move the cursor to where you want to move the object, and release the mouse button.	Drag and drop the desired block into the Strategy window.
Select	Click to highlight a menu item or list choice.	Select New Module from the pull-down list.
Check or uncheck	Click to activate or deactivate a checkbox.	Check the Disable Keying checkbox.
>	Shows nested menu selections as menu name followed by menu selection.	Select File>New.
Expand	Click the + to the left of a given item /folder to show its contents.	Expand the Main Task.

Additional Resources

Resource	Description
DataSite Natural Gas Flow Meter and Remote Terminal Unit Installation Instructions, publication 1758-IN001	Describes how to install and wire the Datasite unit.
DataSite Electronic Flow Meter and Remote Terminal User Manual, publication <u>1758-UM001</u>	Describes how to design, install, program, or troubleshoot control systems that use DataSite controllers.
Customized Function Blocks for DataSite Reference Manual, publication <u>1758-RM001</u>	Describes the customized function blocks that are used to program DataSite units using DataSite Workbench software.
DataSite Electronic Flow Meter and Remote Terminal, Software User Manual, publication <u>1758-UM002</u>	Describes the software tools that are used to configure and monitor the DataSite controller, such as DS settings, DS FloConfig, and DS NP3.
http://www.ab.com/programmablecontrol/plc/datasite	Provides information related to the DataSite unit.
Rockwell Automation Configuration and Selection Tools, available at <u>http://www.rockwellautomation.com/en/e-tools/</u>	 These online tools install on your personal computer so that you can quickly access information on our products. Proposal Works Industrial Computer Selector Operator Interface Selection Tool
	Programmable Controller Family Selector
http://www.rockwellautomation.com/solutions/integrat edarchitecture/	Provides information on integrated architecture tools and resources including accelerator toolkits.
http://www.prosoft-technology.com/	Provides information regarding ProSoft Technology products and technical support. The Modbus TCP/IP Communication Module (MVI56-MNET) used in this quick start is a product of ProSoft Technology. Contact technical support by emailing support@prosoft-technology.com or calling 1 + (661) 716-5100.

You can view or download publications at

http://literature.rockwellautomation.com. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

Preface

Hardware Selection

Introduction

In this chapter, you select the hardware for your application. You can select any of the three DataSite configurations covered in this quick start. Within each configuration, you have the option to purchase a pre-assembled DataSite panel or one that requires assembly. This chapter provides step-by-step instructions on how to use the Bill of Materials (BOM) provided with the DataSite Accelerator Toolkit CD.

Before You Begin

Verify that your computer meets the software requirements of Proposal Works software.

What You Need

- DataSite Accelerator Toolkit CD, publication IASIMP-SP011 For a copy of the CD, contact your local Rockwell Automation distributor or sales representative.
- Personal computer with Internet access for downloading software.

Review Basic Panel Component Listings

The bill of materials (BOM) on the DataSite Accelerator Toolkit CD includes the necessary components to duplicate the three DataSite configurations covered in this quick start. Review the component listings and compare with your specific application needs.

Follow these steps to view the BOM on the DataSite Accelerator Toolkit CD for the DataSite to ControlLogix Master configuration.

- 1. Launch the DataSite Accelerator Toolkit CD.
- 2. Select DataSite Development Tools.



3. Choose DataSite to ControlLogix Master>Bill of Material, then double-click DataSite_to_CLX.prp.

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Proposal Works launches and displays the BOM for the DataSite to ControlLogix Master configuration.

4. Review the BOM and modify to fit your application.

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Double-click a bolded part number to launch the configurator where you can modify components on the bill of material

1	1758-FLO3	02	
	1758 DataSi	te Electronic Flow Meter, 4-20mA	1/0
	1		N/A

5. After finalizing the BOM, click the Word icon on the toolbar to convert the BOM to a Word document.

Word launches and displays the BOM.

ProposalWorks - [Equipment List in DataSite_to_CLX.prp]
I File Edit View Libraries Proposal Zoom Window Help

- 6. Repeat steps 2 5 to view the BOMs for the other two DataSite configurations.
- DataSite Development Tools>DataSite to FactoryTalk View ME Master>Bill of Material>DataSite_to ME_.prp.
- DataSite Development Tools>DataSite to FactoryTalk View SE Master>Bill of Material>DataSite_to_SE.prp.

System Layout and Wiring

Introduction

In this chapter, you plan the panel layout and wiring for your DataSite system. You can use the AutoCAD electrical drawings supplied on the DataSite Accelerator Toolkit CD to add or remove components in your DataSite system.

Before You Begin

Complete your system hardware selection (Chapter 1).

What You Need

- DataSite Accelerator Toolkit CD, publication IASIMP-SP011 For a copy of the CD, contact your local Rockwell Automation distributor or sales representative.
- AutoCAD electrical software to open DWG or DXF files.

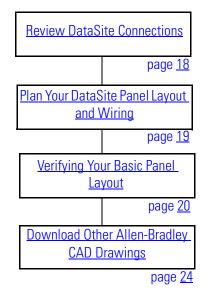


Use AutoCAD electrical software to take advantage of advanced features of the project provided.

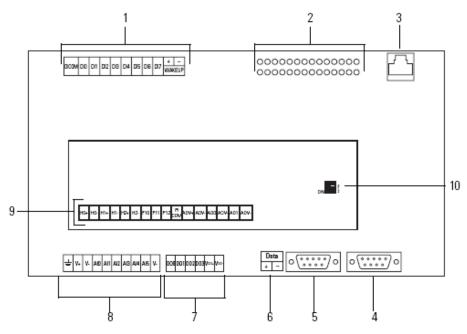
- Adobe Acrobat Reader software to open PDF files.
- System Design for Control of Electrical Reference Manual, publication GMC-RM001.
- Documentation for your other Allen-Bradley products.

Go to Literature Library at <u>http://literature.rockwellautomation.com</u> for access to Rockwell Automation publications.

Follow These Steps



Review DataSite Connections



ltem	Description	ltem	Description
1	Discrete inputs and wake-up connectors	6	RS-485 COM 1 connector
2	Status indicators	7	Discrete output connectors
3	Ethernet connector	8	Power input and analog input connectors
4	RS-232 COM 2 connector	9	HART, pulse input, and analog output connectors
5	RS-232 COM 1 connector	10	Pulse input filter switches

Plan Your DataSite Panel Layout and Wiring

The DataSite Accelerator Toolkit CD includes AutoCAD Electrical project files that include panel layout and wiring diagrams that you can easily modify for your specific application. Individual DWG, DXF, and PDF files are available for use in standard AutoCAD and non-AutoCAD drawing and image software packages. The drawings are designed to optimize panel space and minimize electrical noise.

Follow these steps to load CAD files from the DataSite Accelerator Toolkit CD.

- 1. On the toolkit CD, select DataSite Development Tools.
- 2. Choose DataSite to ControlLogix Master>AutoCAD Electrical CAD.

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	Return to Main Menu	WE AND THE	
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File Edit Vie			
File and Fol Other Place Details		wgat 7,0 Document	

3. Open the DWG or DXF folder.



The PDF file contains the same information as the individual DXF and DWG files. Use Adobe Acrobat Reader to open the PDF file.

- 4. Use your CAD program to open the DWG or DXF files.
- 5. Identify additional layout needs specific to your application.
- 6. Repeat steps 2 5 to view the CAD files for the other two DataSite configurations.
 - DataSite to FactoryTalk View ME Master>AutoCAD Electrical CAD
 - DataSite to FactoryTalk View SE Master>AutoCAD Electrical CAD

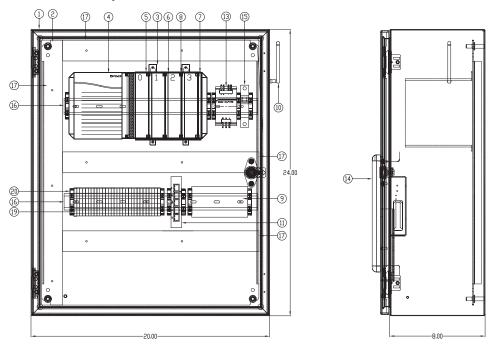
Verifying Your Basic Panel Layout

The AutoCAD Electrical project includes panel layouts and wiring diagrams for each of the three DataSite configurations. Add or remove components as needed.

Panel Layouts for the DataSite to ControlLogix Master Configuration

The DataSite to ControlLogix Master configuration includes panel layouts for host and remote locations. Refer to the bill of material below each layout to review the items in each panel.

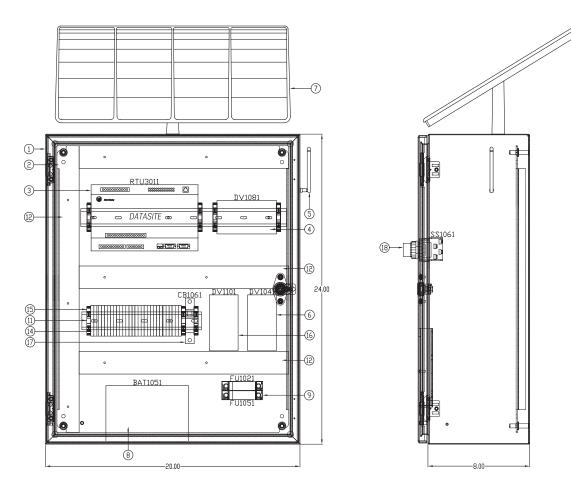
Host DataSite Location - Panel Layout



Sample Bill of Material - Host DataSite Panel Layout

ITEM	QTY	DESCRIPTION	MFG	CATALOG
		CONTROL LOGIX MASTER PANEL		
1	1	NEMA1 ENCLOSURE 24"x20"x8"	HOFFMAN	CSD242008
2	1	PANEL FOR ENCLOSURE	HOFFMAN	CP2420
3	1	4 SLOT CONTROL LOGIX CHASSIS	AB	1756-A4
4	1	POWER SUPPLY, 85-265VAC (5V @ 10 AMP)	AB	1756-PA72
5	1	CONTROL LOGIX PROCESSOR	AB	1756-L63
6	1	CLX ETHERNET/IP 10/100 BRIDGE MODULE	AB	1756-ENBT
7	1	SLOT FILLER	AB	1756-N2
8	1	PROSOFT TECHNOLOGY MODBUS TCP/IP COMMUNICATION MODULE	PROSOFT	MV156-MNET
9	1	PROSOFT TECHNOLOGY FREQUENCY HOPPING ETHERNET - 2.4GHz	PROSOFT	RLX-FHE
10	1	RADIO ANTENNA		
11	1	5 PORT ETHERNET SWITCH	AB	1783-US05T
12	5	ETHERNET CABLE, STRAIGHT THROUGH RJ45	AB	RJ45
13	1	COMPACT POWER SUPPLY, 24-28V, 72w, 120/240VAC INPUT	AB	1606-XLP72E
14	1	PANELVIEW PLUS 1000	AB	2711P-T10C4A1
15	1	CIRCUIT BREAKER, 15 AMP	AB	1489-A1C150
16	-	35mm DIN RAIL	AB	199-DR1
17	-	PANDUIT WIRE DUCT, 1.5" x3" WHITE	PANDUIT	F1.5X3WH6
18	-	PANDUIT WIRE DUCT COVER, 1.5" WHITE	PANDUIT	C1.5WH6
19	-	TERMINAL BLOCK	AB	1492-J4
20	-	END ANCHOR	AB	1492-EAJ35

Remote DataSite Location - Panel Layout

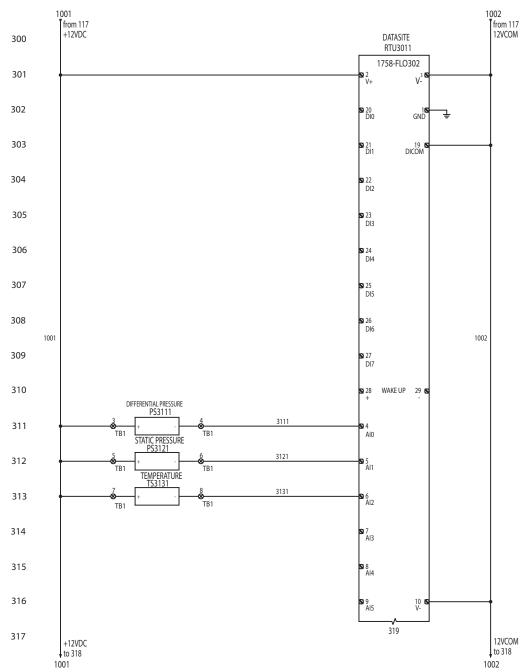


Sample Bill of Material - Remote DataSite Location

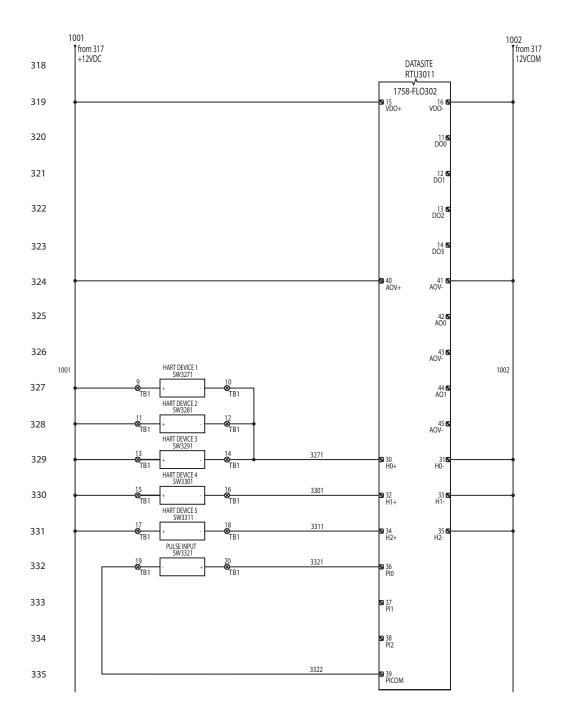
ITEM	QTY	DESCRIPTION	MFG	CATALOG
		CONTROL LOGIX DATASITE RTU PANEL		
1				0000040000
		NEMA1 ENCLOSURE 24"x20"x8"	HOFFMAN	CSD242008
2	1	PANEL FOR ENCLOSURE	HOFFMAN	CP2420
3	1	DATASITE ELECTRONIC FLOWMETER, 4-20ma I/O	AB	1758-FL0302
4	1	PROSOFT TECHNOLOGY FREQUENCY HOPPING ETHERNET - 2.4GHz	PROSOFT	RLX-FHE
5	1	RADIO ANTENNA		
6	1	SOLAR CHARGE CONTROLLER		
7	1	SOLAR PANEL		
8	1	12 VOLT BATTERY		
9	1	FUSE HOLDER 2 POLE, 30A, LED BLOWN FUSE INDICATOR	AB	1492-FB2C30-L
10	2	FUSE, 5 AMP, TIME DELAY, REJECTION TYPE	BUSSMAN	FNQ-R-5
11	-	35mm DIN RAIL	AB	199-DR1
12	-	PANDUIT WIRE DUCT, 1.5" x 3" WHITE	PANDUIT	F1.5X3WH6
13	-	PANDUIT WIRE DUCT COVER, 1.5" WHITE	PANDUIT	C1.5WH6
14	-	TERMINAL BLOCK	AB	1492-J4
15	-	END ANCHOR	AB	1492-EAJ35
16	1	12V TO 24V DC CONVERTER		
17	1	CIRCUIT BREAKER, 5 AMP	AB	1489-A1C050
18	1	SELECTOR SWITCH, 2 POSITIONED, MAINTAINED	AB	800H-HR2D1P
19	1	OFF-ON LEGEND PLATE	AB	800H-W133

Wiring Diagrams for the DataSite to ControlLogix Master Configuration

The AutoCAD electrical project includes wiring diagrams for each of the three DataSite configurations. The example shows power wiring for the DataSite to ControlLogix Master configuration. Add or remove components as needed.



Sample CAD Wiring Diagram



Download Other Allen-Bradley CAD Drawings

Follow these steps to download other Allen-Bradley product CAD drawings.

1. Open your browser and go to <u>http://ab.com/e-tools</u>.

The Configuration and Selection tools web page opens.

Configuration & Selection Tools	CONFIGURATION & SELECTION TOOLS
 Product Selection Overview Get the Product Selection Toolbox 	Rockwell Automation offers a powerful range of product selection and system configuration tools to assist you to choose and apply our products. There are tools available on-line and for you to install on your personal computer so that you can quickly access information on our products while in the office or on the go.
- System Configuration	access information on our products write in the ornice of on the go.
- Product Drawings	Product Selection System Configuration Product Drawings
 Integrated Architecture Tools 	
+ Get Support Now	 Build/Validate A Catalog Number — Build, Verify and Get Information and CAD Drawings for Products
Resources	To verify a catalog number, acquire drawings and product information enter the
- Product Directory	complete number (including dashes) below.
- Product Certification	Catalog Number: Submit
- Product Cross Reference	
- Literature Library	You can also browse our <mark>product directory</mark> for additional product information or to configure a part. NOTE: You must be <mark>logged in</mark> to correctly view Canadian dollar results.

TIP

If you know the complete catalog number of your Allen-Bradley product, you can enter it here and click Submit. However, you need a complete catalog number string to get the configuration results.

- 2. If you don't know the complete catalog number, click product directory to browse the configured Rockwell Automation products.
- **3.** Click Rockwell Automation and follow the prompts.

Select and Configure Products

Rockwell Automation/Allen-Bradley Product Catalog

- Rockwell Automation
- Services
- Encompass Partner Library

DataSite and Logix Integration

Introduction

In this chapter, you configure the DataSite unit, download the ControlLogix user program, configure the ProSoft (MVI56-MNET) Modbus TCP/IP communication module, and connect all system devices.

Before You Begin

- Complete your system hardware selection (Chapter 1).
- Complete your system layout and wiring (Chapter 2).
- Load all DataSite software on your computer as listed in the Preface on page <u>10</u>. In this chapter, you will use the DS FloConfig and RSLogix 5000 software.
- Assign IP addresses to all devices on network. The table lists IP addresses used in this quick start.

Device	IP Address	Device	IP Address
1756-ENBT Ethernet module	192.168.10.90	ProSoft MV156-MNET module	192.168.10.94
Master radio	192.168.10.91	Personal computer	192.168.10.95
Remote radio	192.168.10.92	PanelView Plus 1000 terminal	192.168.10.96
DataSite unit	192.168.10.93		

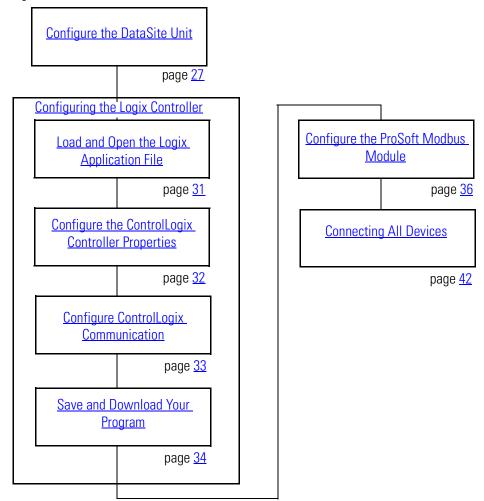
This chapter assigns IP addresses to the 1756-ENBT Ethernet module, the DataSite unit, and the Prosoft MV156-MNET module. For details on how to assign an IP address to the PanelView Plus terminal, refer to the PanelView Plus Terminals User Manual, publication <u>2711P-UM001</u>. For the other devices, refer to the manufacturer's user manual.

What You Need

- Personal computer or laptop
- Hardware:
 - 1758-FLOxxx DataSite Unit
 - 1756-L63 ControlLogix controller
 - 1756-ENBT EtherNet/IP module

- Modbus TCP/IP communication module (MV156-MNET) from ProSoft Technology
- PanelView Plus 1000 terminal
- Two Ethernet RF radios
- 1747-CP3 null-modem serial cable
- One Ethernet crossover cable
- Five Ethernet straight-through cables
- Ethernet switch
- Software:
 - DS FloConfig software
 - RSLogix 1000 software
 - DataSite Accelerator Toolkit CD, publication IASIMP-SP011

Follow These Steps



Configure the DataSite Unit

The communication parameters for the DataSite unit are configured using DS FloConfig software. The DataSite unit can communicate using either its serial or Ethernet port. This quick start uses the serial port to assign the DataSite unit an IP address of 192.168.10.93 and then changes to Ethernet communication.

TIP

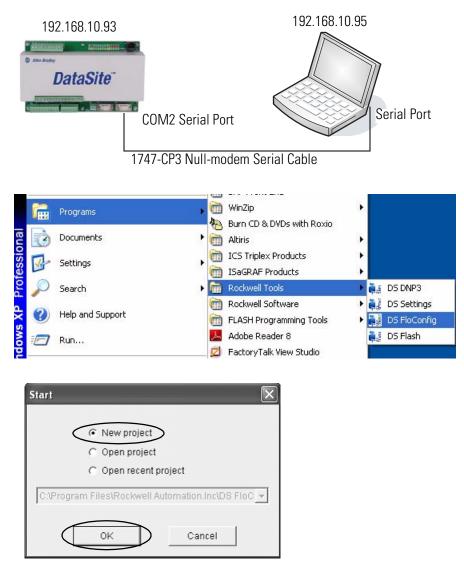
Make sure your computer or laptop is assigned an IP address where the first three octets are the same as the DataSite unit, 192.168.10.XX. In this quick start, the computer uses a static IP address of 192.168.10.95 with a subnet mask of 255.255.255.0.

Follow these steps to assign an IP address, 192.168.10.93, and configure Ethernet communication for the DataSite unit.

- **1.** Connect a 1747-CP3 (null-modem) serial cable between your computer's serial port and the COM2 port on the DataSite unit.
- **2.** Apply 12V DC power to the DataSite unit.
- **3.** Launch the DS FloConfig software.

The path shown may be different on your computer depending on where the software is installed.

4. Select New Project and click OK.



- 5. Create a new project.
 - a. Enter a project name.
 - b. Enter the directory where you want to store the project.

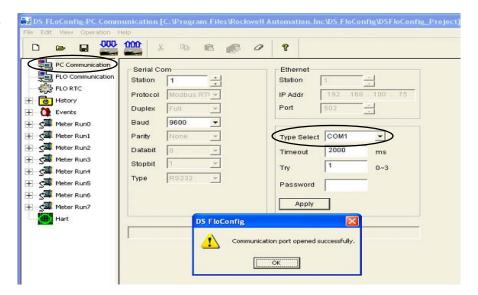
This examples saves the project in the default directory.

c. Click Create.

New Project	X
⊡s C:	~
Config.Msi	
🛅 FixShare	=
fixtemp	
😐 🗁 I386	
🖕 🗁 Program Files	
🕀 🦳 Adobe	
🗈 🦳 Allen-Bradley	
🗈 🗁 Altiris	
🗈 👘 Avaya	
Common Files	
ComPlus Applications	
⊕-	
GLOBEtrotter Software Inc Direction Witting Witzard	v
Directory C:\Program Files\Rockwell Automation.Inc\DS FloConfig Create	
Project name DSFloConfig_Proje	

- 6. Click PC Communication.
 - a. Select COM1 from the Type Select pull-down list.
 - b. Click Apply.

A message informs you that the Communication port opened successfully. c. Click OK.



- Click Flo Communication, then click Upload.
 The screen refreshes with the existing IP address and serial port settings.
- **8.** Click OK when you see Upload Successful.

D 🖻 🖬 🎇	1000 ×	Pa n	0	?					
PC Communication	COM0-			COMI			COM2		
FLO RTC	Station	1		Station	1	-	Station	1	
B History	Protocol	Modbus R1	TU -	Protocol	Modbus RTU	-	Protocol	Modbus RTU	
Events	Mode	Slave	•	Mode	Slave	-	Mode	Slave	-
- 🚰 Meter Run0	Duplex	Full	•	Duplex	Full	•	Duplex	Full	-
S Meter Run1	Baud	9600	•	Baud	9600	•	Baud	9600	•
- Sa Meter Runz	Parity	None	•	Parity	None	-	Parity	None	•
- Sa Meter Run3	Data bit	8	•	Data hit		-	Data bit	8	•
- 🚰 Meter Run4 - 🖼 Meter Run5	Stop bit	1	-	St DS F	oConfig		Stop bit	1	-
-Cal Meter Run6	Туре	R8232	-	Ty 1	Upload Succes	sful	Туре	R8232	•
- 🚰 Meter Run6 - 🖼 Meter Run7	Timeout	100	10ms	Tir		ms	Timeout	100	
Hart	Delay	0	10ms	De	OK)	ms	Delay	0	:10r
	Ethernet	000.047.03	37.072.041.232	_	Power	nable			
	MAC	10 . 90				COM1	Etherne	at ⊽L	ED
	IP	100000000	100000000000000000000000000000000000000		Resour	ce Number			
	Mask	255.255	. 255 . 0				1		
	Gateway	192.168	.100.1		Commu	unication Pa	ssword(4 cha	ars)	
	Port	502 -	Station	1			****		
			6	~					

- 9. Under Ethernet:
 - a. Type the IP address for the DataSite unit. This example uses 192.168.10.93.
 - b. Click Download.
 - c. Click OK when you see the Download successful message.
- **10.** Cycle power to the DataSite unit. You must power cycle when changing the IP address.

192.168.10.93 Download successful. Ethermet Image: Control of the successful. 255.255.255.0 0 0 0 1 1	LED
/ 192.168.100.1 Password(4 chars)	
502 - Station 1 -	

- **11.** Click PC Communication.
 - a. Select UDP or TCP/Server from the Type Select pull-down list.
 - b. Type the IP address, 192.168.10.93 that you just downloaded to the DataSite unit.
 - c. Click Apply.
 - d. Click OK when you see Communication port opened successfully.
- 🖼 Meter Run3 Stopbit Try 0~3 🖼 Meter Run4 RS232 v Type 🖼 Meter Run5 Password 🕂 🖼 Meter Run6 Apply Sa Meter Run7 Hart DS FloConfig Communication port opened successfully OK Ethernet Crossover Cable DataSite

🗱 DS FLoConfig-PC Communication [C: \Program Files\Rockwell Automation.Inc\DS FloConfig\DSFloConfig_Project]

8

Etherne

Station

IP Addr

Port

Type Select UDP

Timeout

192.168.10

2000

502

93

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ms

B 10 0

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Modbus RTI 💌

9600

None

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¥.

X

Serial Com

Station

Protocol

Duplex

Baud

Parity

Databit

000 000

PC Communication

FLO Communication

ELO RTC

+ 🙆 History

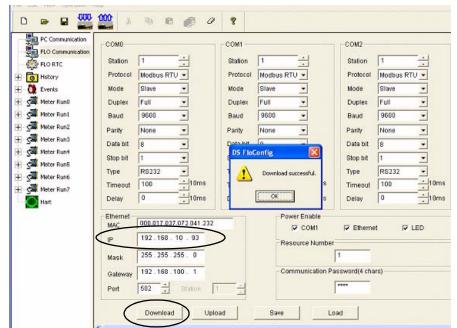
0 Events

A Meter Run0

Kal Meter Run1

🚰 Meter Run2

- **12.** Connect your computer to the DataSite unit using an Ethernet crossover cable.
- **13.** Click Flo Communication.
 - a. Verify the IP address is 192.168.10.93.
 - b. Click Download.
 - c. Click OK when you see the Download successful message.



The IP address of the DataSite unit was set successfully and now uses Ethernet communication.

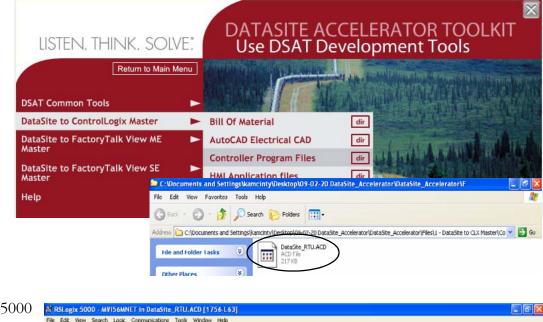
Configuring the Logix Controller

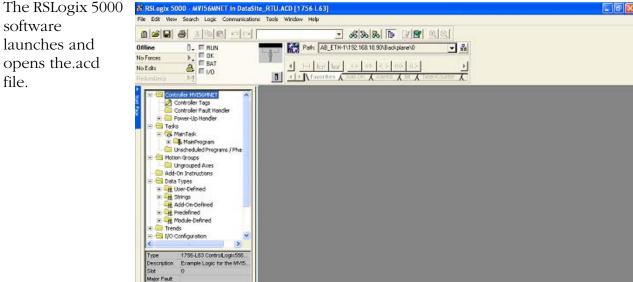
The sample Logix program on the DataSite Accelerator Toolkit CD provides the logic necessary to manipulate data coming from the Modbus TCP/IP communication module and makes it available to the ControlLogix L63 controller tags.

Load and Open the Logix Application File

Follow these steps to load and open the (.acd) Logix application file from the DataSite Accelerator Toolkit CD.

1. On the toolkit CD, choose DataSite to ControlLogix Master>Controller Program Files, then double-click the DataSite_RTU.ACD application file.

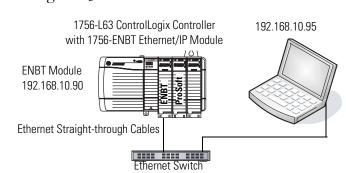




Configure the ControlLogix Controller Properties

Follow these steps to configure your ControlLogix L63 controller.

- **1.** Apply power to your ControlLogix chassis.
- 2. Connect your computer and 1756-ENBT Ethernet module to the Ethernet switch using Ethernet straight-through cables.
- **3.** Choose Controller Properties from the Edit menu to open the Controller Properties dialog box.
- **4.** Click the General tab.
 - a. Click the Change Controller button to select the controller that matches your hardware. This example uses 1756-L63 revision 16.
 - b. Change the controller Name as desired.
 - c. From the Chassis Type pull-down list, select the catalog number for your chassis.
 - d. Set the slot number to 0 to indicate the 1756-L63 controller resides in slot 0.
 - e. Click OK.



Date/Time Ad	roperties - MVI56MNET
Vendor: Type: Revision:	Allen-Bradley 1756-L63 ControlLogix5563 Controller 16.7
Name: Description:	MVI56MNET Example Logic for the MVI56-MNET module.
Chassis Type:	1756-A10 10-Slot ControlLogix Chassis
Slot:	

TIP

Slot 0 is reserved for the 1756-L63 module. Slot 1 is reserved for the 1756-ENBT module. Slot 2 is reserved for the ProSoft Modbus TCP/IP module.

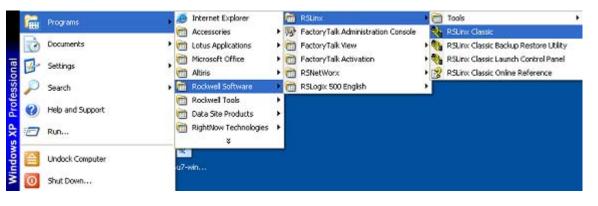
Configure ControlLogix Communication

This procedure assumes that communication to the Logix controller is using the Ethernet port. It also assumes that your 1756-ENBT Ethernet/IP module has already been configured with an IP address of 192.168.10.90.

For additional information, refer to the ControlLogix Controllers User Manual, publication <u>1756-UM051</u>.

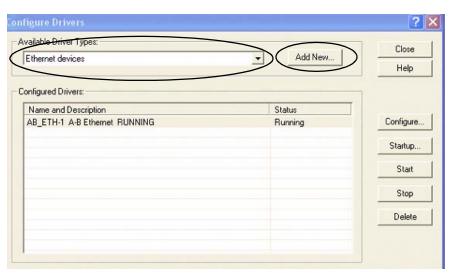
Follow these steps to configure ControlLogix communication.

1. Open the RSLinx Classic software, then choose Configure Drivers... from the Communications menu.



The Configure Drivers Window opens.

- **2.** Select Ethernet devices from the pull-down list.
- **3.** Click the Add New button.



4. Accept the default driver name, AB_ETH-1, or change the name and click OK.

Add New RSLinx Classic Driver		X
Choose a name for the new driver. (15 characters maximum)	\subseteq	ОК
AB_ETH-1		Cancel

5. Enter the IP address of	Configure driver: AB_ETH-1	? 🛛
your Ethernet ENBT module and click OK.	Station Mapping	1
This example uses	Station Host Name	Add New
192.168.10.90.	1	Delete

🗞 RSLinx Classic Gateway - [RSWho - 1]

🖃 💻 Workstation, USMKEACESLAB6

÷---

ň

由 器 Linx Gateways, Ethernet
品 AB_ETH-1, Ethernet

♣ File Edit View Communications Station DDE/OPC

2

🖻 📟 Backplane, 1756-A10/A

12

⊕ X 10.90.136.52, 1756-ENBT/A, 1756-ENBT/A
 ⊕ 192.168.10.90, 1756-ENBT/A, 1756-ENBT/A

01, 1756-ENBT/A

D. 0 111

00, 1756-L63 LOGIX5563, MVI56MNET

02, 1756 module, MVI56 ProSoft Technology, Inc.

- **6.** Click Close to close the Configure Drivers window.
- 7. Choose RSWho from the Communications menu.

The RSWho window opens.

- 8. Expand AB_ETH_1, Ethernet until your 1756-L63 Logix controller is visible.
- **9.** Verify that you can browse to your Logix controller in slot 0.
- 10. Minimize the RSLinx window and return to your RSLogix 5000 project window.

🗃 X 🎜 🖲

Autobrowse

Save and Download Your Program

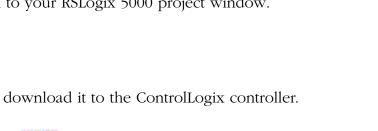
Follow these steps to save your program and download it to the ControlLogix controller.

 Click Verify Controller on the RSLogix 5000 toolbar to verify the Logix program.

If any errors or warnings occur, they display at the bottom of the window.

- 2. Choose Save from the File menu to save the program.
- **3.** Click Who Active.

Path: AB_ETH-1\192.168.10.90\Backplane\0



Security

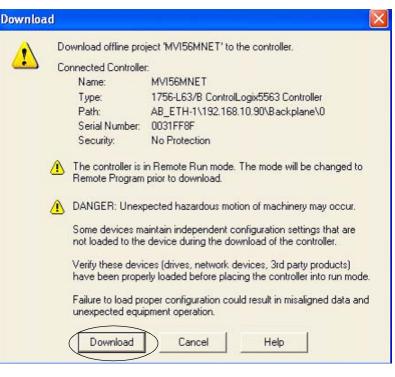
Not Browsing

- **4.** Browse to the 1756-L63 controller and click the Set Project Path button.
- **5.** Verify that the key switch on the controller is in the REM (remote) position.
- 6. Click Download.

Who Active Autobrowse Refresh □ - 🖳 Workstation, USMKEACESLAB6 Go Online 표 뫎 Linx Gateways, Ethernet 🖻 器 AB_ETH-1, Ethernet Upload.. 🖻 🖞 10.90.136.52, 1756-ENBT/A, 1756-ENBT/A Download - 192.168.1.2, MicroLogix 1100, 1100_PVC 🗄 👖 192.168.10.90, 1756-ENBT/A, 1756-ENBT/A Update Firmware. 🗄 🚍 Backplane, 1756-A10/A 🖅 👖 00, 1756-L63 LOGI Close 01, 1756-ENBT/A 02, 1756 module, MVI56 ProSoft Technology, Inc. 03, 1756-DNB, 1756-DNB DeviceNet Scanner 04, 1756-L1/A LOGIX5550, 1756-L1/A 1756-M1/A LOG 01, 1756-ENBT/A Help 🕂 🗍 05, 1756-ENET/B, 1756-ENET/B ⊕
 ¹
 08, 1756-CNB/D, 1756-CNB/D 5.050 Build 010
 < > Path: AB ETH-1\192.168.10.90\Backplane\0 Set Project Path Path in Project: <none> Clear Project Path

The Download window opens.

7. Click Download to send the program to the 1756-L63 controller.



8. Click No when the download is complete.

RSLogix	5000		X
⚠	Done downloading, Chang	e controller mode back	to Remote Run?
	Yes	No	

IMPORTANT

All system devices must be configured and connected before placing the controller in Run mode. If the controller is already in Run mode, choose Offline from the Communications menu.

RSLogix 5		DataSite_RTU_08_11_2008.ACD [1756-L63] unications Tools Window Help
		× & & & & E 2 2 QQ
Offline	0. 🗆 RUN	🙀 Path: AB_ETH-1\192.168.10.90\Backplane\0 🗸 🛃
No Forces	P OK	
No Edits	BAT	
Redundancy	8-g	KING Favorites & Add-On & Alarms & Bit & Timer/Counter & I

Configure the ProSoft Modbus Module

The ProSoft MV156-MNET Modbus TCP/IP communication module polls the Modbus registers of the DataSite unit and makes the data available to the 1756-L63 controller tags. The Prosoft module slides into slot 2 of the ControlLogix chassis and requires two configuration (.cfg) files to operate.

- WATTCP.CFG assigns an IP address to the ProSoft MVI56-MNET module.
- MNET.CFG defines the list of Modbus registers to read from or write to the DataSite unit.

You will download these configuration files from the DataSite Accelerator Toolkit CD.

The WATTCP.CFG file was modified to assign the ProSoft MVI56-MNET module an IP Address of 192.168.10.94. The MNET.CFG file was modified to poll 19 DataSite natural gas Modbus registers from each of the 8 meter runs which will display on a PanelView Plus 1000 terminal.

If necessary, you can use Notepad to open and modify the configuration files. For more information on these files and how they were created, refer to the MVI56-MNET User Manual in the DSAT Common Tools>Literature and Support Info>ProSoft directory of the Accelerator Toolkit CD. In addition to the configuration files, a (.acd) Logix program is required to manipulate the Modbus data written to the L63 controller tags. Refer to page <u>31</u> for details on how to download the Logix program.

MPORTANT	The.acd Logix program was downloaded on page <u>31</u> in the <u>Configuring the Logix Controller</u>		
	section. You must download the Logix program to the ControlLogix L63 controller before you		
	configure the Prosoft Modbus module.		

TIP

For technical support on the Prosoft MVI56-MNET module, email support@prosoft-technology.com or call the technical support number 1 + (661) 716-5100 that is available at http://www.prosoft-technology.com/

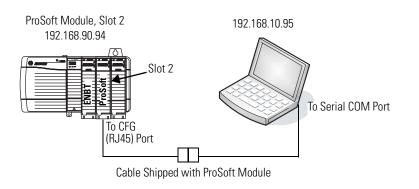
Follow these steps to download the WATTCP.CFG and MNET.CFG configuration files from the DataSite Accelerator Toolkit CD to the ProSoft Modbus module.

1. On the toolkit CD, choose DataSite to ControlLogix Master>ProSoft Interface Module Files, then copy the files MNET.CFG and WATTCP.CFG to your desktop.

LISTEN. THINK. SOLV	E DATASITE ACCELERATOR TOOLKIT Use DSAT Development Tools
Return to Main M	
DataSite to ControlLogix Master	► Bill Of Material dir
DataSite to FactoryTalk View ME Master	AutoCAD Electrical CAD dir Controller Program Files dir
DataSite to FactoryTalk View SE Master	Controller Program Files dir HMI Application files dir
Help	ProSoft Interface Module Files
	🚔 C: Wocuments and Settings Wamcinty Wesktop 109-02-20 DataSite_Accelerator V 🗐 🗖 🔯
	File Edit View Favorites Tools Help 🥂
	🔇 Bark = 🚫 = 🏂 🔎 Search 😥 Folders 💷 -
	Address 🦳 C:\Ducuments and Settings\kamciu+\Desktop\02-02-20 DataSite_Accelerator\DataSite_A
	File and Folder Tasks
	Other Places WATCP.CrG

Details

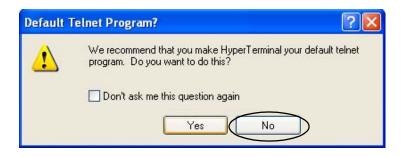
- 2. Install the ProSoft Modbus module into slot 2 of the Logic chassis. Slot 2 is used in this quick start. If you change the slot number, then you must modify the .acd Logix program.
- **3.** Apply power to the chassis.
- **4.** Connect the serial cable that ships with the ProSoft module between the serial port on your computer and the (RJ45) CFG port on the ProSoft module.



TIP

Disconnect the serial cable that you previously used to connect your computer to the DataSite unit.

- **5.** Choose Start>Programs>Accessories>Communications>HyperTerminal to open the hyper terminal on your desktop.
- **6.** Click No if you see this dialog box.



7. Enter a name for the new connection and click OK.

Connection Description 🛛 😨 🔀
New Connection
Enter a name and choose an icon for the connection:
Name:
Icon;
OK Cancel

8. Select the COM port used by your computer and click OK. This example uses COM1.

Connect To		? 🗙
None none		
Enter details for	the phone number that you wan	t to dial:
Country/region:	United States (1)	~
Area code:	1	
Phone number:		
Connect using:	COM1	~
	OK Ca	incel

9. Set the COM1 port settings as shown and click OK.

Bits per second:	57600	~
Data bits:	8	*
Parity:	None	*
Stop bits:	1	*
Flow control:	Xon / Xolf	*
Stop bits:	1	~

- **10.** Press **Shift+?** to display the MVI56-MNET menu.
- **11.** Press **R**, then press **Y** to transfer the MNET.CFG file.

🗞 none - HyperTerminal				
File Edit View Call Transfer Help				
1 📽 🔋 💲 🕰 🖬				
?=Display Menu B=Block Transfer Stati C=Module Configuration D=Modbus Database View Command List Errors: Command List: R=Transfer Configurati U=Reset diagnostic dat V=Version Information W=Warm Boot Module Communication Status: Configuration: @=Network Menu	E=Client 0 I=Client 0 on from PC to on from MVI 0 a 1=Network	Unit to PC 0=Client 0 6=Servers	4=NIC Status 7=Static ARP Tab	ole



After pressing **Y**, you have limited time to browse for the file before a timeout occurs.

12. From the Transfer menu, choose Send File.

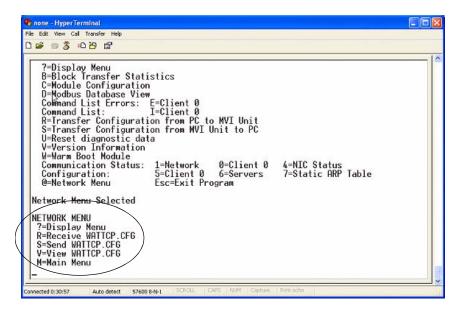
🤹 none	- HyperTerminal
File Edit	t New Cal Transfer Help
0 💣	9 3 10 B B

- **13.** From the Send File dialog box:
 - a. Click Browse to locate MNET.CFG, then click Open.
 - b. Select Zmodem from the Protocol list.
 - c. Press Send.

A progress bar shows the status of the file transfer.

- **14.** Press **Shift+?** to return to the main menu.
- 15. Press Shift+@, then Shift+? to display the Network menu.
- **16.** Press **R**, then **Y** to transfer WATTCP.CFG.

Send File		?
	uments and Settings\ceuser\My	
Filename:		-
C:\Documents	and Settings\ceuser\My Documen	Browse
Protocol:		
Zmodem		





After pressing **Y**, you have limited time to browse for the file before a timeout occurs.

17. From the Transfer menu, choose Send File.

🏶 none - HyperTerminal			
File Edit	View Cal Transfer Help		
🗋 💣	View Cal Transfer Help		

- **18.** From the Send File dialog box:
 - a. Click Browse to locate WATTCP.CFG, then click Open.
 - b. Select Zmodem from the Protocol list.
 - c. Press Send.

A progress bar shows the status of the transfer.

 Press Shift+? to display the Network menu; then press M followed by Shift+? to return the main menu.

The ProSoft Modbus module is now configured.

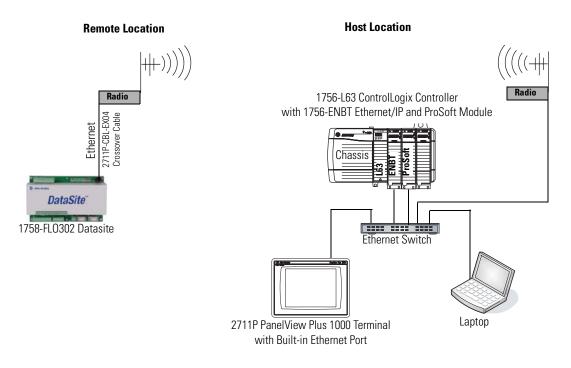
- **20.** Close the HyperTerminal dialog box.
- **21.** Cycle power to the ProSoft module by pulling it from the chassis and re-inserting it.

This registers the new IP address.

Send File	? 🔀
Folder: C:\Documents and Settings\ceuser\My Filename:	
C:\Documents and Settings\ceuser\My Documen	Browse
Protocol:	
Zmodem	*

Connecting All Devices

At this point all devices should be connected as shown in the illustration. Modify any previous connections, if necessary, to match the illustration.



All devices connect to Ethernet switch using Ethernet straight-through cables.

You must use an Ethernet crossover cable to connect the DataSite unit to the radio. The cable between the Ethernet switch and the ProSoft MVI56-MNET Modbus module must connect to the RJ45 Ethernet Port; not the CFG port.

The configuration of the Ethernet radio modems is not covered in this quick start. Refer to your radio user manual for instructions on how to configure and assign IP addresses to both radios. After wiring is complete, apply power to all devices.

TIP

Radios are optional. If your application does not require radios simply replace the radios with an Ethernet straight-through cable connecting the DataSite to the Ethernet switch.

DataSite Workbench and Screen Builder Integration

Introduction

In this chapter, you download the DataSite Workbench sample user program and DataSite Screen Builder sample web pages to the DataSite unit.

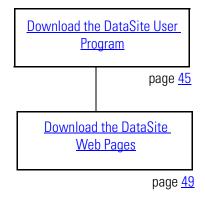
Before You Begin

- Complete your system hardware selection (<u>Chapter 1</u>).
- Complete your system layout and wiring (Chapter 2).
- Complete the DataSite and Logix Integration (Chapter 3).
- Verify that all devices are connected properly and are powered up.

What You Need

- Personal computer
- All system devices properly connected and powered up
- Hardware: DataSite unit
- Software:
 - DataSite Workbench 5.2
 - DataSite Screen Builder 1.3
 - DataSite Accelerator Toolkit CD, publication IASIMP-SP011

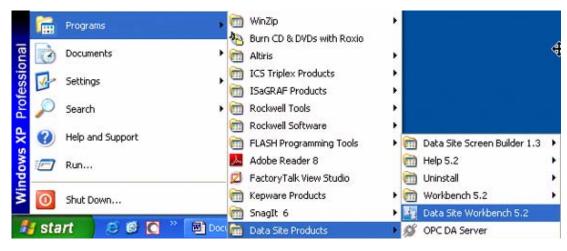
Follow These Steps



Download the DataSite User Program

Follow these steps to compile and download the sample DataSite user program.

1. Launch DataSite Workbench 5.2 software.



- **2.** From the Project/Library menu, choose Open.
- **3.** Select the Prj folder from the Look in: pull-down list.
- **4.** Double-click the folder DataSite_Base_Program.

If you don't see this dialog box, refer to the tip.

Open			? 🛛
Look in:) Prj	-)= 🖻 (* 🖬 •
DataSite	Base_Program		
<			>
File <u>n</u> ame:	PrjLibrary.mdb		<u>O</u> pen
Files of type:	Project/Library files (prilibrary.mdb)	-	Cancel
	C Open as read-only		
	Open in <u>s</u> ingle-resource mode		

TIP

If you don't see the DataSite_Base_Program folder in step 4, follow these steps.

- From the DataSite Accelerator Toolkit CD, browse to DSAT Common Tools>DataSite User Programs.
- Copy and paste the DataSite_Base_Program folder to the DataSite Workbench default project directory: C:\Documents and Settings\All Users\Documents\DataSite\Projects\Workbench 5.2\prj
 C:\Documents and Settings\All Users\Shared Documents\DataSite\Projects\Workbench 5.2\prj
- Now return to step 2 to open the project.

5. Double-click PrjLibary.mdb to open the user program.

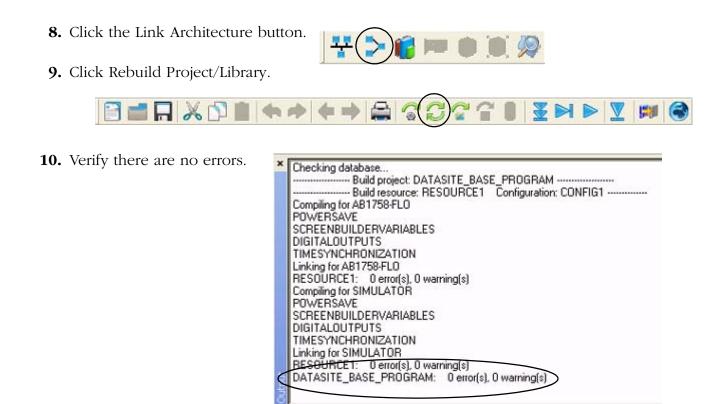
Open			? 🛛
Look jn: C Config1 SymbolTa PrjLibrary		← € (* III -
File <u>n</u> ame:	PrjLibrary.mdb		<u>O</u> pen
File name: Files of type:	PriLibrary.mdb Project/Library files (prijlibrary.mdb)		<u>O</u> pen Cancel
		-	

6. Click the Hardware Architecture button.



7. Double-click the Vertical Network Bar, then enter the IP address of the DataSite unit and click OK.

🕎 Data Site Workbench - [DataSite_Workbench (* Project 1 config	guration, 1 resource *) - Hardware architecture]
File Edit Insert Project Tools Debug Options Window Help	
$\square \blacksquare \blacksquare \blacksquare \land \land \square \blacksquare \land \land \land \land \land \models \blacksquare @$	
🕂 🗲 😰 📼 🛎 🔘 🎘 🚰 Base Layer 🕑	
ETCP	Connection - Properties Network Parameters Mirror targets Name Value Comment IPAddress 192.168.10.93 address or Computer nam IPAddress 192.168.10.93 address or Computer nam Image: Comment of the second seco



11. Click the Download button to download the program to the DataSite unit.



12. Click Select All, then click Download.

Download	×
Check resources to download their code:	
Config1: 1:Resource1 (* Resource Number 1 *)	_
Toggle Select All Unselect All	
 ✓ Save on target after download ✓ Start after download 	
Download Cancel	

TIP	If the DataSite unit is running a program, you will see a message similar to the one below. Click Stop and Download to complete the Download process.
Resource alread	ly running 🛛 🔀
RESOURCE1 in C	DNFIG1
Resource is alrea	ady running. Do you want to stop it ?
Stop and dowr	No Stop, No Download

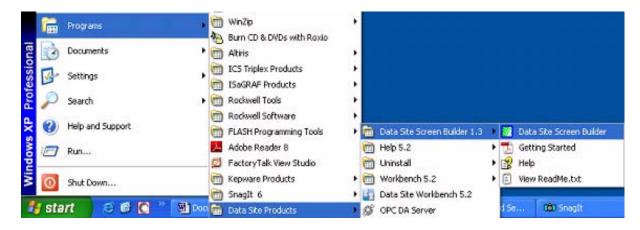
The DataSite Workbench user program has been downloaded and is running on the DataSite unit.

Download the DataSite Web Pages

You will now compile and download the sample DataSite web pages to the DataSite unit.

Follow these steps to download the HiBeam web pages.

1. Launch the DataSite Screen Builder 1.3 software.



- **2.** From the File menu, choose Open.
- **3.** Select the Prj folder from the Look in: pull-down list.
- **4.** Double-click the folder DataSite_Base_Web_Pages.

If you don't see this dialog box, refer to the tip.

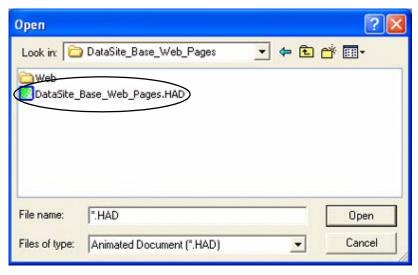
Open			? 🛛
Look in:	Prj	• ►	1
DataSite_I	Base_Web_Pages		
File name:	*.HAD		- Open
Files of type:	Animated Document (*	.HAD) 💌	Cancel

TIP

- If you don't see the DataSite_Base_Web_Pages folder in step 4, follow these steps.
 - From the DataSite Accelerator Toolkit CD, browse to DSAT Common Tools>DataSite Web Pages.
 - Copy and paste the DataSite_Base_Web_Pages folder to the DataSite ScreenBuilder default project directory: C:\Documents and Settings\All Users\Documents\DataSite\Projects\ScreenBuilder 1.3\prj
 C:\Documents and Settings\All Users\Shared Documents\DataSite\Projects\ScreenBuilder 1.3\prj
 - Now return to step 2 to open the project.

5. Double-click

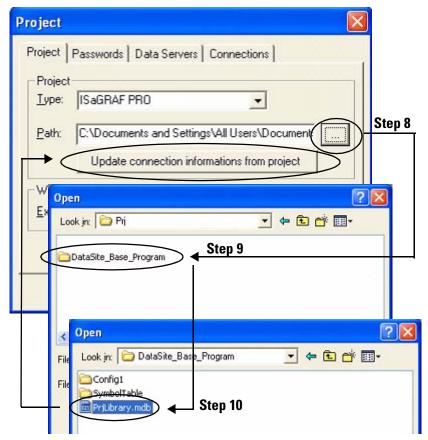
DataSite_Base_Web_Pages.HAD to open the web page program.



- **6.** From the toolbar, choose Project>Settings.
- 7. On the Project tab, click the Path browse button.
- 8. Browse to the DataSite Workbench default project directory.
- **9.** Double-click the DataSite_Base_Program folder.
- **10.** Double-click PrjLibrary.mdb, then click Update connection informations from project button.

This allows the DataSite web pages to access variables created in the sample DataSite Workbench user program. Default DataSite Workbench project directory:

C:\Documents and Settings\All Users\Documents\DataSite\Projects\Workbench 5.2\Prj or C:\Documents and Settings\All Users\Shared Documents\DataSite\Projects\Workbench 5.2\Prj

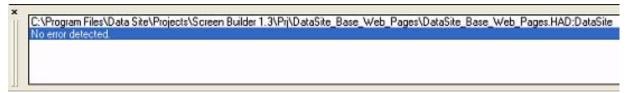


- **11.** Click the Data Servers tab.
 - a. Double-click the row to select the IP address of the DataSite unit.
 - b. Click OK.

Data Ser 192.168.		User	Admin	Heap mer 64
	IP Addre	ess Selection	1	×
	192.168	.10.93		_
<				
<u> • </u>				
		\supset		Cancel

13. Verify there are no errors.

12. Click the Compile button.



- **14.** Click the Download button.
- **15.** Click Options.

	X 🖻 🛍	$\cap \ \cap$	¥1
Download - Sen	d to Server		×
ETP Server			

Address:	192.168.10.93 💌	Load
Password:	1	Close
	Save password	Options
oad Document: D		
File:	atabite	
Size:		

16. Check Send Java Classes and click OK.

Download	(ОК
Send JAVA	classes	Cancel
- All and a second second	ges (GIF,JPG) Iload' box when transfer is complete	Default
Send Extra	Web files	
FTP		
User name:	guest	1

TIP

Checking the Send JAVA classes box is only required the first time you download a project. Subsequent downloads do not require you to check this box.

- **17.** Load the web pages.
 - a. Select the IP address of the DataSite unit.
 - b. Click the Load button.Wait two to three minutes to complete the download process.
 - c. Click Close when you see the message Connection OK.

Download - S	end to Server	
FTP Server- Address: Password:	192.168.10.93	Load Close
Load Document: File: Size: Category:	DataSite	
		~

The DataSite web pages have been successfully downloaded to the DataSite unit. Refer to <u>Chapter 6</u> for system validation and an overview of the DataSite web pages.

FactoryTalk View Integration

Introduction

In this chapter, you download the FactoryTalk View ME project to a PanelView Plus 1000 terminal connected to a ControlLogix 1756-L63 controller.

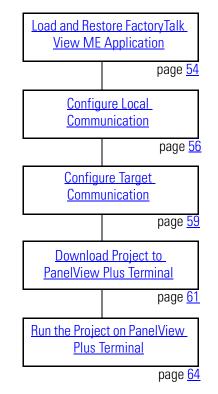
Before You Begin

- Complete your system hardware selection (<u>Chapter 1</u>).
- Complete your system layout and wiring (Chapter 2).
- Complete the DataSite and Logix Integration (Chapter 3).
- Complete the DataSite Workbench and Screen Builder integration (Chapter 4).
- Verify that all devices are connected properly and are powered up as shown in <u>Connecting</u> <u>All Devices</u> on page <u>42</u>.

What You Need

- Personal computer
- PanelView Plus 1000 terminal with Version 5.0 firmware
- Software:
 - FactoryTalk View ME software
 - DataSite Accelerator Toolkit CD

Follow These Steps



Load and Restore FactoryTalk View ME Application

Follow these steps to load and restore the FactoryTalk View Machine Edition (ME) application from the DataSite Accelerator Toolkit CD using the Application Manager.

1. On the toolkit CD, choose DataSite to ControlLogix Master>HMI Application Files, then double-click the DataSite_ME_CLX.apa application file.

LISTEN. THINK. SOLVI		CELERATOR TOOLKIT velopment Tools
Return to Main Mer		
DataSite to ControlLogix Master	 Bill Of Material 	dir C: Wocuments and SettingsWamcintyWesktop109 02 20 DataSite_Acc
DataSite to FactoryTalk View ME Master	AutoCAD Electrical CAD Controller Program Files	dir File Edit View Favorites Tools Help
DataSite to FactoryTalk View SE Master	HMI Application files	dir G Back - C:\Documents and Settings!kamcintu/Desktop109-02-20 DataSite_Accelerator!
Help	ProSoft Interface Module Files	5 dir File and Folder Tasks CLX.apa APA File 478 kB

The Application Manager window opens.

2. Select Restore the FactoryTalk View Machine Edition application and click Next.

	n Manager ication archive to	restore.		
CND ocuments	and Settings\ceu	ser\Desktop\Dat	aSite_ME_CLX.a	pa
	e FactoryTalk Vie e FactoryTalk Vie		1.1	i FactoryTalk Lo
Directory				, in the second s
			*	

3. Type DataSite_ME_CLX as the application name and click Finish.

The Application Manager closes after it restores the application.

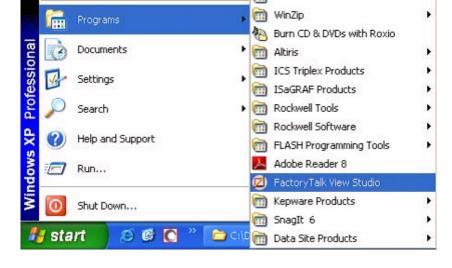
Enter a name for the new application. DataSite_ME_CLX	Application 🔊	FILL STATE (S) - U		
	Enter a name for	the new applicatio	n.	
	DataSite_ME_C			
\frown				
			\sim	

Configure Local Communication

The Design (Local) tab in Communications Setup reflects the view of the topology from the RSLinx Enterprise server on the development computer. In this example, the development computer is communicating to a ControlLogix L63 controller via Ethernet communication.

Follow these steps to configure local communication.

- 1. Apply power to your ControlLogix L63 controller.
- 2. Verify all cable connections as shown in the wiring diagram on page 42.
- **3.** Launch FactoryTalk View Studio software.



If you see this dialog box, select Machine Edition and click Continue.

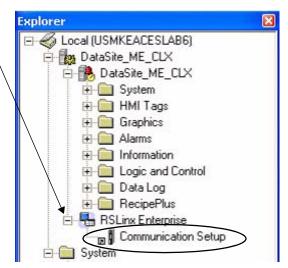
		Friday	T	
		Factory	Talk View Studio	
lect the type o	f application you	would like to a	onfigure:	
_fa			_	
)	
5ite Edition (Network)	Site Edition (Local)	Machine Edition		

4. Select DataSite_ME_CLX from the Existing tab and click Open.

The Machine Edition application opens.

New/Open Machine Edition Application New Existing Application Name Baggage_640x480 Baggage_800x600 **BizBikes** ME DataSite_ME_CLX DataSite_ME_Modbus_Serial Malthouse Clgx 640x480 Malthouse Clgx 800x600 Objects 5 Screen Demo Objects_640x480 Objects_800x600 test Language: English (United States), en-US -Open Cancel

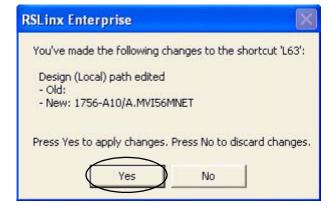
- **5.** Expand RSLinx Enterprise in the Explorer window.
- **6.** Double-click Communication Setup.



Add Remove Apply	Design (Local) Runtime (Targe	R) Copy from Design to Runtime
RSLinx Enterprise Are you sure you want to remove this s Yes No	☐ 1756-A10/A ④ 0, 1756-	EACESLAB6 e 1756-ENBT/A, 1756-ENBT/A
	Mode: Online Browsing: Ether	net

The Communication Setup window opens.

- 7. Select L63 under Device Shortcuts.
- 8. Click Remove then click Yes to verify the removal of the shortcut.
- 9. Expand the RSLinx Enterprise tree to access your 1756-L63 controller in slot 0 (0, 1756-L63).
- 10. Click Add under Device Shortcuts.
- **11.** Enter L63 as the shortcut name and press Enter.
- **12.** Select your Logix controller 0, 1756-L63.
- **13.** Click Apply under Device Shortcuts.
- **14.** Click Yes to apply changes.

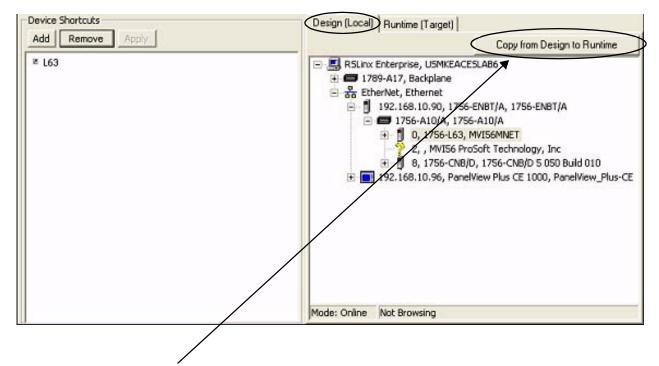


Configure Target Communication

The Runtime (Target) tab displays the offline configuration from the perspective of the device that is running the application and comprises the topology that is loaded in the PanelView Plus terminal. In this example, the PanelView Plus terminal communicates to the same ControlLogix L63 controller via Ethernet communication.

Follow these steps to configure target communication.

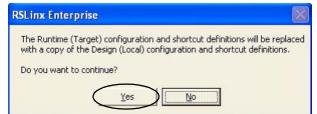
1. Select the Design (Local) tab in the Communication Setup window.



2. Click Copy from Design to Runtime.

A dialog box prompts you to confirm the operation.

3. Click Yes.



4. Select the Runtime (Target) tab and expand the RSLinx Enterprise tree.

Device Shortcuts	Design (Local) (Runtime (Target)
Add Remove Apply	Copy from Design to Runtime
× L63	RSLinx Enterprise, USMKEACESLAB6 I789-A17, Backplane I789-A17, Backplane I92.168.10.90, 1756-ENBT/A, 1756-ENBT/A I92.168.10.90, 1756-A10/A I 1756-A10/A I 1756-L63, MVI56MNET I 0, 1756-L63, MVI56MNET I 0, 1756-CNB/D, 1756-CNB/D 5 050 Build 010 I 192.168.10.96, PanelView Plus CE 1000, PanelView_Plus-CE
	Mode: Online Not Browsing

5. Click the L63 shortcut to verify that your controller and shortcut name are both highlighted.

In this example, 1756-L63 is the controller in slot 0 and L63 is the shortcut name.

6. Click OK at the bottom right corner of the window.

OK Cancel Verify Help

Download Project to PanelView Plus Terminal

Follow these steps to create a FactoryTalk View ME runtime file and download it to the PanelView Plus terminal.

1. Choose Create Runtime Application from the Application menu.

The Create Runtime Application dialog box opens.

- **2.** Select Runtime 5.0 Application (*.mer) from the Save as type list.
- **3.** Type DataSite_ME_CLX.mer in the File name field.
- **4.** Click Save and wait for the progress bar to complete.

FactoryTalk View Studio - Machine Edition - [C
 File View Application Tools Window Help
 File Wiew Application
 Create Runtime Application...
 Explorer
 Local (L
 Application Properties...

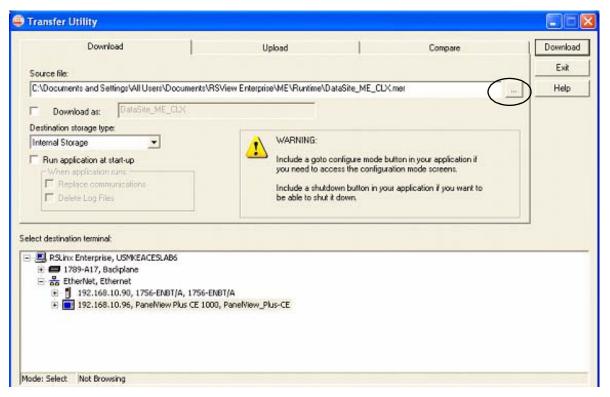
Create Runtime	Application					? 🔀
Save jn:	C Runtime			•	£ 💣 🗉	≣ +
My Recent Documents						
Desktop						
My Documents						
5						
My Computer						
					_	
My Network Places	File <u>n</u> ame:	DataSite_ME_C	CLX.mer			Save
	Save as type: 🧲	Runtime 5.0 Ap	plication (*.me	r).		Cancel
ſ	- Conversion to dev	velopment applicat	ion		1	1
	Always allow	conversion				Help
	C Never allow (
		rotected by passw	ord			
	Password.					

5. Click the File Transfer Utility button on the toolbar.

		udio - Machine	
		Tools Window	Help
]፼ 8 8	0 🖨 A	* E 🥥	

The Transfer Utility opens.

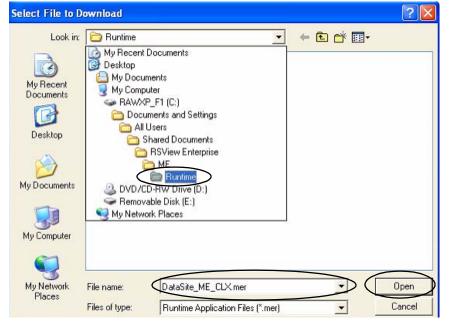
6. Click the Browse ... button to locate the runtime file.



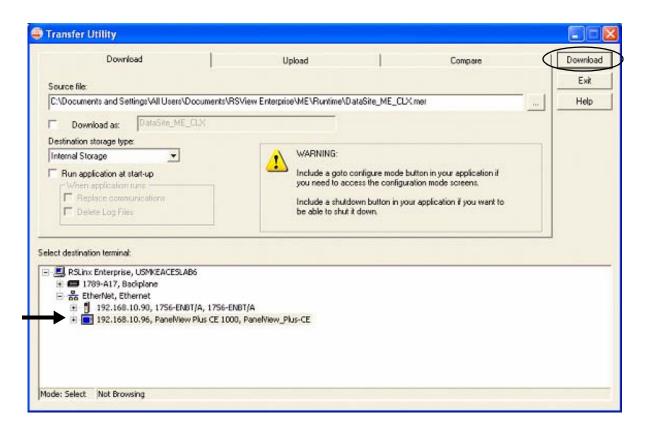
7. Select DataSite_ME_CLX.mer from the Runtime folder.

Default Runtime folder path: C:\Documents and Settings\All Users\Documents\RSView Enterprise\ME\Runtime

8. Click Open.



9. Browse and select your PanelView Plus terminal, then click Download.



TIP

If the PanelView Plus terminal has an existing .mer file with the same name, click Yes to overwrite the file.

- **10.** Click OK when the download completes successfully.
- **11.** Click Exit to close the File Transfer Utility.





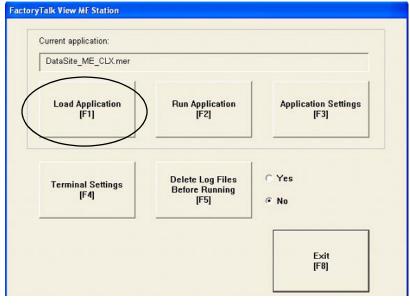
12. Choose Exit from the File menu to close the FactoryTalk View Studio software.

Run the Project on PanelView Plus Terminal

The (.mer) runtime file is now stored in the PanelView Plus terminal so you are ready to run the project on the terminal.

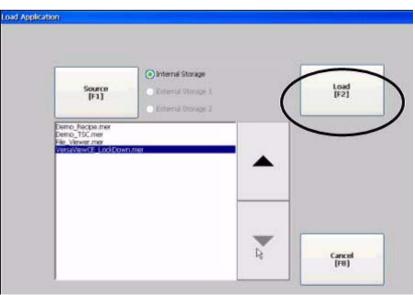
Follow these steps to run your project on the PanelView Plus terminal.

- **1.** Verify that the PanelView Plus is connected as shown on page <u>42</u> and that it is receiving power.
- 2. Press Load Application [F1] in the FactoryTalk View ME Station dialog box.



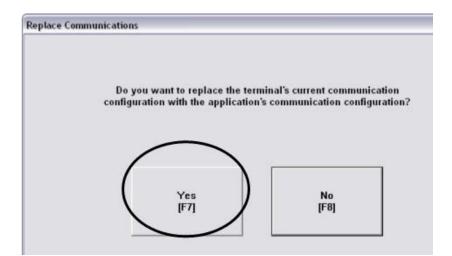
The Load Application dialog box opens.

- **3.** Use the up/down arrows to scroll through the list of applications and select DataSite_ME_CLX.mer.
- 4. Press Load [F2].

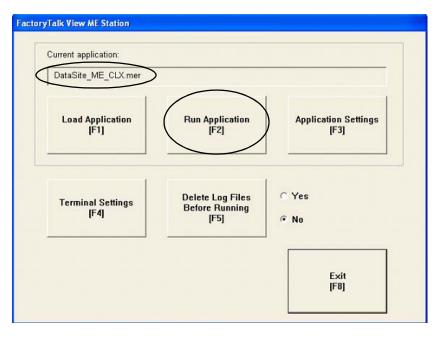


5. Press Yes [F7].

If you press No, the communication settings from the previously run project will be used.



- 6. Wait for the application to the load and verify that DataSite_ME_CLX.mer appears under Current application.
- 7. Press Run Application [F2].



The application builds and displays a DataSite screen on the PanelView Plus terminal.

Refer to <u>Chapter 6</u> for system validation.

System Validation

Introduction

In this chapter, you validate the DataSite system by verifying that all AGA flow data can be seen on the PanelView Plus 1000 terminal and on the DataSite web pages.

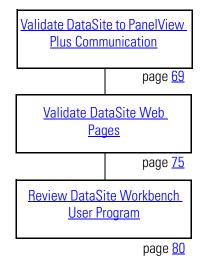
Before You Begin

- Complete your system hardware selection (<u>Chapter 1</u>).
- Complete your system layout and wiring (Chapter 2).
- Complete the DataSite and Logix Integration (Chapter 3).
- Complete the DataSite Workbench and Screen Builder integration (Chapter 4).
- Complete the FactoryTalk View integration (<u>Chapter 5</u>).
- Verify that all devices are connected properly and are powered up as shown in <u>Connecting</u> <u>All Devices</u> on page $\underline{42}$.

What You Need

- Personal computer
- All product hardware from the previous chapters
- Software:
 - DS Flo Config
 - DataSite Workbench
 - RSLogix 5000
 - Java Runtime Environment, Version 6 Update 7
 - DataSite Accelerator Toolkit CD, publication IASIMP-SP011

Follow These Steps



Validate DataSite to PanelView Plus Communication

You are now ready to validate communication between the DataSite unit and the PanelView Plus terminal. Using the DS FloConfig software, you will simulate three process variables and validate that the calculated flow values display on the PanelView Plus terminal.

TIP

To use actual process variables, wire temperature, pressure, and differential pressure transmitters to the DataSite analog inputs.

Follow these steps to perform the system validation.

1. Launch the DS FloConfig software.

The path shown may be different on your computer depending on where the software is installed.

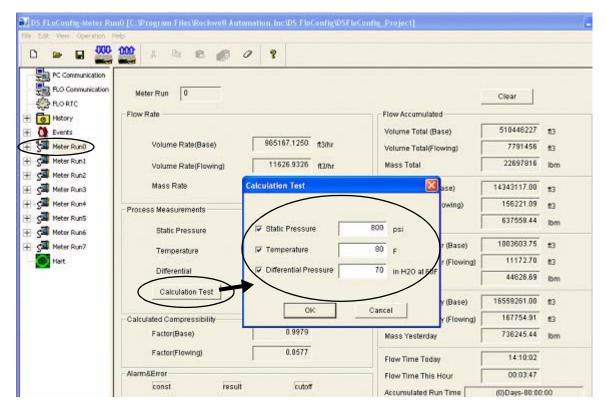
2. Select Open Recent Project and click OK.

1	Programs	. 💼	WinZip	•	
	Documents	•) Burn CD & DVDs with Roxio Altiris	ъ.	
1	Settings	, 🖲	ICS Triplex Products	•	
P	Search	•	ISaGRAF Products Rockwell Tools	•	🚑 DS DNP3
?	Help and Support		Rockwell Software		DS Settings
	Run		Adobe Reader 8		DS Flash
		2	FactoryTalk View Studio		

Start	
0	New project Open project Open recent project
C:\Program File	es\Rockwell Automation.Inc\DS FloC
	Cancel

This DS FloConfig file was created in Chapter 1.

- **3.** Select MeterRun0 on the left side of the dialog box.
- 4. Click Calculation Test and check all three boxes.
 - a. Type 800 for Static Pressure.
 - b. Type 80 for Temperature.
 - c. Type 70 for Differential Pressure.
 - d. Click OK.



TIP

You can optionally repeat steps 3 and 4 for Meter Run1 through Meter Run7.

- 5. Click OK when you see the message Download Successful.
- 6. Expand Meter Run0, select Field Parameters, then click Upload.
- 7. Check Accumulate and click Download.

D 🕞 🖬 🚥 🕯	00 x 15 m a	0 8			
PC Communication PLO Communication PLO RTC PO History PC Dents Pleid Parameters	Meter Run 0 Meter Parameter P Enable Standard AGA3 AGA8 Methods Gas Analysis Instrument Parameter	Unit U.S. •	Gas Components(10 Methane(CH4) Nitrogen(N2) Carbon Dicoide Ethane(C2H6) Propane(C3H8)	0.0000%) 96.5222 % i-Butane(i-C4H10) 0.2595 % n-Butane(n-C4H10) 0.5956 % i-Pentane(n-C5H12) 1.8186 % n-Pentane(n-C5H12) 0.4596 % n-Hexare(n-C6H14)	0.0977 0.1007 0.0473 0.0324 0.0664
	Base Temperature 6 Cut-off Differential 0 Pressure Type A	4.7300 psia 0.0000 F 0.0000 in H2O at 60F disolute •	Water(H2O) Hydrogen Sulfide Hydrogen(H2) Carbon Monoside Cwygeri(O2)	0.0000 % n-Heptane(n-C7H16) 0.0000 % n-Octane(n-C8H18) 0.0000 % n-Nonane(n-C8H20) 0.0000 % n-Decane(n-C10H22) 0.0000 % Hellum(He) Argon(Ar)	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
E 2-e rate can	Orifice Plate & Pipe Tube Orifice Material 3 Orifice Diameter 4 Reference T 6	04&316 stainless steel .0000 in .0000 F .arbon steel .	- Relative Denaty Condition Type - Relative Denaty Refe Pressure	Real _ Relative Density 0.5	81220 ann
	Tube Diameter 8 Reference T 6	8.0710 in 88.0000 F Data Type UShort +		1035.9900 Eburscf Heference T	60.0000 r

- **8.** Return to the RSLogix 5000 software.
- **9.** Choose Online from the Communication menu and place your L63 ControlLogix controller in Run mode.

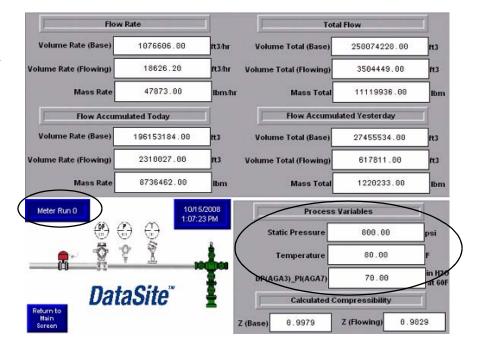
File Edit View Search Logic Con	munications Tools Wir	ndow Help
Offline Image: Constraint of the con	Who Active Select Recent Path Go Online Upload Download	Axis Solution Solution <th< th=""></th<>
	Program Mode Bun Mode Test Mode Lock Controller Clear Faults	

10. Verify the FactoryTalk View ME project is running on the PanelView Plus 1000 terminal. If necessary, refer to page <u>61</u> for instructions on how to download and run the project.

11. Press Meter Run 0 on the PanelView Plus terminal.



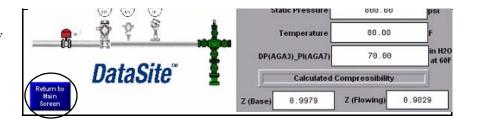
12. Verify the Meter Run 0 process variables are the same as DS FloConfig on the next page.



				Clear	
low Rate		1	Flow Accumulated		
		a subscription in	Volume Total (Base)	250099938	ft3
Volume Rate(Base)	1076606.3750	ft3/hr	Volume Total(Flowing)	3504894	ff3
Volume Rate(Flowing)	18626.1914	f13/hr	Mass Total	11121080	lbm
Mass Rate	47872.9883	lbm/hr	Volume Today (Base)	196179632.00	ft3
Process Measurements			Volume Today (Flowing)	2310483.50	ft3
Static Pressure	800.00	psia	Mass Today	8737593.00	lbm
Temperature	80.00		Volume Last Hour (Base)	1045921.38	ft3
	70.0000	in H2O at 60F	Volume Last Hour (Flowing)	11007.11	ft3
Differential	10.0000	in H2O at 60F	Mass Last Hour	46508.46	lbm
Calculation Test			Volume Yesterday (Base)	27455534.00	ft3
Calculated Compressibility			Volume Yesterday (Flowing)	617810.63	ft3
Factor(Base)	0.9979		Mass Yesterday	1220233.38	lbm
Factor(Flowing)	0.9029		Flow Time Today	198:01:30	
Narm&Error			Flow Time This Hour	00:08:25	
para result	cutoff		Accumulated Run Time	(11)Days-16:31	

DS FloConfig Process Variables

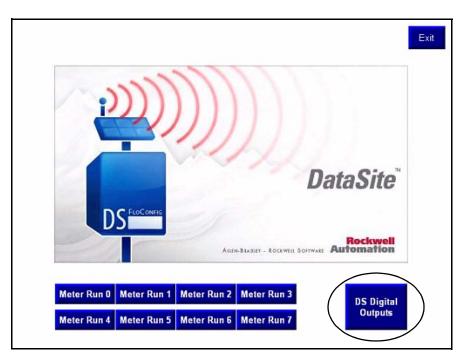
13. Press Return to Main Screen on the PanelView Plus terminal.



TIP

You can optionally repeat steps 9 through 12 to validate the process variables for Meter Run 1 through Meter Run 7.

14. Press DS Digital Outputs on the main PanelView screen to validate control of the DataSite digital outputs.



15. Press a digital output.

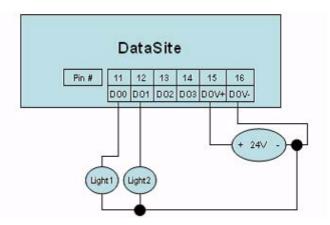
The push button on the left turns ON digital output 0.

The push button on the right turns ON digital output 1.



TIP

To verify this functionality, you must wire a testing device such as a stack light into digital output 0 and another device into digital output 1. You must also supply the required voltage to terminals DOV+ and DOV-.



The configuration and validation of the Data Site unit to ControlLogix Master is now complete.

Validate DataSite Web Pages

You will now validate the web pages of the DataSite unit using the simulated values from the <u>Validate DataSite to PanelView Plus Communication</u> section on page <u>69</u>. To view the web pages, you must have the latest Java runtime environment loaded on your computer. The DataSite Accelerator Toolkit CD contains a copy of the required Java runtime environment.

Follow these steps to perform validation of the web pages.

TIP

You can skip step 1 if Version 6 Update 7 of the Java Runtime Environment is installed on your computer.

1. From the toolkit CD, choose DSAT Common Tools>DataSite Web Pages, then double-click the executable, jre-6u7-windows-i586-p.exe, to load the Java Runtime Environment, Version 6 Update 7.

LIST	TEN. THINK. SOLVE".	Use DSAT Development
	Return to Main Menu	A REAL PROPERTY AND ADDRESS OF
DSAT Co	mmon Tools	Literature and Support Info
DataSite	to ControlLogix Master 🛛 🕨	DataSite User Programs dir
DataSite Master	to FactoryTalk View ME 🛛 🕨 🕨	DataSite Web Pages dir
		/Desktop\09-02-20 DataSite_Accelerator\DataSite_Accelerat
DataSite	File Edit View Favorites Tools Help	
	🔇 Back + 🔘 + 🏂 🔎 Search 🛛	🔁 Folders 💠
	Address C:\Documents and Settings\kamcinty	/iDesktop/09-02-20 DataSite_Accelerator/DataSite_Accelerator/Heci0 - DSA
	File and Folder Tasks 🔹	DataSite_Base_Web_Pages

- 2. Launch Internet Explorer.
- 3. In the Address bar, type http://192.168.10.93/datasite.html



IMPORTANT

You must enter the correct IP address of the DataSite unit. This quick start uses 192.168.10.93

Java takes about one minute to load this screen.

Similar to the PanelView Plus terminal, the web pages will display the same flow data as in DS FloConfig.



4. Click Meter Run 0.

5. Verify the process variables are the same as in DS FloConfig.

100 100 10 00 00 00 00 00 00 00 00 00 00					Links 30
192.168.10.93/DataSite.html				💌 🛃 😡	Uras -
Flow Rab	e	1	Total Flov	v]
Volume Rate (Base)	1076605.4	ft3/hr	Volume Total (Base)	452443309	пз
Volume Rate (Flowing)	18626.191	ft3/hr	Volume Total (Flowing)	7005602	ns
Mass Rate	47872.99	Ibm/hr	Mass Total	20118592	lbm
Flow Accumulate	ed Today]	Flow Accumulated	Yesterday]
Volume Today (Base)	3.94844512E8	n3	Volume Yesterday (Base)	2.7455534E7	ttз
Volume Today (Flowing)	5763209.0	nз	Volume Yesterday (Flowing)	617810.6	n:3
Mass Today	1.7591616E7	lom	Mass Yesterday	1220233.4	Ibm
Run 0.	n n		Pro	ocess Variables	
			Static Pressure	0.003	psi
HH	¥ .≟.		Temperature	80.0	F
		3	BR(AGA3)_PI(AGA7)	70.0	in H20
Data	Site"	· ·	Calcula	ated Compressibilit	Y
Data	UILU		Z (base)	0.997861	
				1	

6. Click Main Menu to return to the main application screen.

7. Click Digital Outputs.

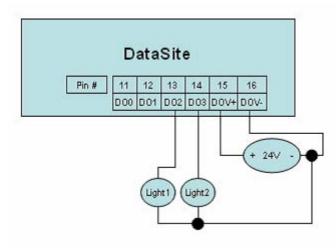


8. Click Digital Output 2.



TIP

To verify this functionality, you must wire a testing device such as a stack light into digital output 2 and another device into digital output 3. You must also supply the required voltage terminals DOV+ and DOV-.



9. Repeat the previous step to verify Digital Output 3.

You just completed web page validation. Modify the existing sample programs to meet your application needs. This example only displays data for one meter run. Duplicate the example, to add additional meter runs.

Review DataSite Workbench User Program

The sample DataSite Workbench project consists of four programs.

- Power Save Saves power by turning power on/off to the LEDs, serial port, and RS485 port.
- Screen Builder Variables Reads Meter Run 0 flow data variables and assigns a DataSite Workbench variable that can be used by the DataSite web pages.
- Digital Outputs Controls DataSite digital outputs 2 and 3.
- Time Synchronization Synchronizes the DataSite clock to the ControlLogix L63 controller clock.

Follow these steps to view the DataSite Workbench program in Run mode.

1. Compile the DataSite Workbench user program by clicking Rebuild Project/Library.



2. Click Debug Target.



This lets you view a running program and make changes to the variables.

3. In Debug mode, double-click the program you want to view.

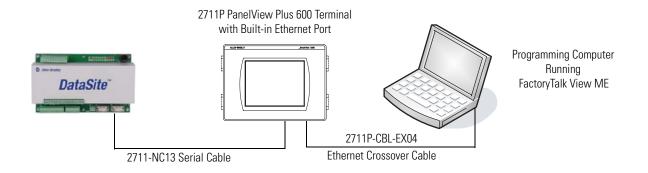


4. Refer to the program comments for details on functionality.

To view other programs, close the program editor window and double-click a different program from the link architecture view.

DataSite to FactoryTalk View ME Master

This appendix describes how to configure a PanelView Plus 600 terminal to communicate with the DataSite using Modbus serial communication. This setup requires KEPServerEnterprise V4.0 to configure drivers between the DataSite unit and the PanelView Plus terminal running FactoryTalk View ME.



Use this setup for smaller applications that don't require a ControlLogix controller to poll multiple DataSite units. Refer to Appendix B for instructions on how to configure a Factory Talk View SE master to communicate with the DataSite via Modbus TCP/IP communication that don't require a controller but do require data logging parameters to an excel file.

Before You Begin

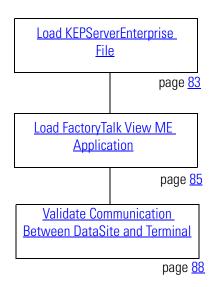
- Download KEPServer Enterprise V4.0.
- Wire the DataSite unit to the PanelView Plus 600 terminal using the 2711-NC13 serial cable.
- Apply Power to the DataSite unit and PanelView Plus 600 terminal.

What You Need

- Personal computer
- Hardware:
 - DataSite unit
 - PanelView Plus 600 terminal

- 2711C-NC13 serial cable
- 2711P-CBL-EX04 Ethernet crossover cable
- Software:
 - KEPServerEnterprise V4.0
 - FactoryTalk View Studio ME
 - DataSite Accelerator Toolkit CD, publication IASIMP-SP011

Follow These Steps



Load KEPServerEnterprise File

Follow these steps to load a KEPServer Enterprise .pfe file that contains Modbus addresses of the parameters to be polled and displayed on the PanelView Plus 600 HMI terminal.

1. From the DataSite Accelerator Toolkit CD, choose DataSite to FactoryTalk View ME Master>HMI Application files.

LISTEN, THINK, SOLV	E. DATASITE ACCELERATOR TOOLKIT Use DSAT Development Tools
Return to Main M DSAT Common Tools DataSite to ControlLogix Master	enu C:\Documents and Settings\kamcInty\Desktop\09-02-20 DataSite_Accelerator\DataSite_AccelerAccelAccel
DataSite to FactoryTalk View ME Master	Bill Of Material dir File Edit View Favorites Tools Help AutoCAD Electrical CAD dir G Book - <
DataSite to FactoryTalk View SE Master	HMI Application files dir Address C: (Documents and Settings)(kancinty)(Desktop)(09-02-20 DataSite_Accelerator)(DetaSite_Accelerator
Help	File and Folder Tasks (S) Other Places (S) DataSite ME_Modbus_Serial.apr APA File 345 KB DataSite ME_Modbus_Serial.apr Production of the file and Folder Tasks (S) DataSite ME_Modbus_Serial.apr Production of the file and Folder Tasks (S) Production

2. Copy ModbusSerial.pfe from the CD to the default project folder for KEPServerEnterprise.

C:\Program Files\KEPServerEnterprise\Projects

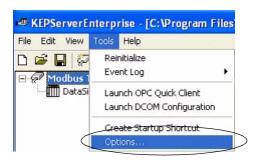
C: Program FilesWEPServerEnterpriseProjects	
File Edit View Favorites Tools Help	
🔇 Badi + 🐑 - 🎓 🔎 Search 🐑 Folders 🔠 -	
kichess 🛅 Cilprogram Piles/AEPServerEnkerprise/Projects	a 🔁 👻
File and Folder Tasks Andrew ModusSerial.pfe Rename this file ModusSerial.pfe Prove this file Statish this file Copy this file Statish this file to the Web E-mell this file Collecte this file	

3. Launch KEPServerEnterprise V4.0.

	1	Programs	0	WinZip					
10			10	Burn CD & DVDs with Roxio					
sional	3	Documents		Akiris	*				
Sic	The.	Settings		ICS Triplex Products					
fee	0			ISaGRAF Products					
Profes	P	Search +	1	Rockwell Tools					
	-	10025732850132	m	Rockwell Software			Ê	Help Documentation	
XP	0	Help and Support		FLASH Programming Tools	,			KEPServerEnterprise	D
SM	107	Run	λ.	Adobe Reader 8			3	OPC Quick Client	1
/indows	-	- Sector	Ø	FactoryTalk View Studio			菌	XP Service Pack 2 DCOM Document	
Wir	0	Shut Down	1	Kepware Products	- 1	MEPServerEnterprise	• 6) Utilities 🔸	
			m	SnagIt 6	,				
	17 alla	and the state of the second	Con-			Second Shap			

4. Choose Open from the File menu, then locate and open the ModbusSerial.pfe file.

5. From the Tools menu, Choose Options.



- **6.** Click the Browse ... button to locate the default project ModbusSerial.pfe.
- 7. Click Apply.
- 8. Click OK.

C:\Program Files\KEPServerEnterprise\Projects\ModbusSerial.pfe

Default project	ogram Files\KEPServerEnte	rprise\Projects\ModbusSerial.pfe
Keep track of the	8 v most recently	used project files.
F Always backup	the last saved project file pr	ior to overwriting the file with new change
Confirmations		
Ask for confirma	t.	
Ask for confirma	tion when an operation will	cause clients to be disconnected.
Prompt to save	project changes.	
Exit options		
Select the action up	u want to take when the	Ask to save (with timeout) 🔻
server automatically	shuts down with a modified	
project.		Timeout: 10 + seconds

Load FactoryTalk View ME Application

The FactoryTalk View ME application contains screens to display flow data on a PanelView Plus 600 terminal for one meter run.

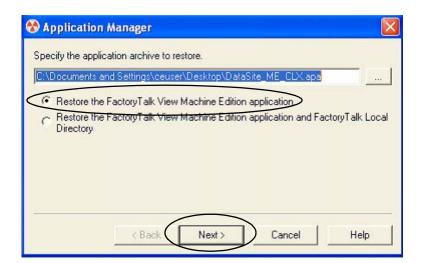
Follow these steps to load the FactoryTalk View ME application from the DataSite Accelerator Toolkit CD.

1. On the toolkit CD, choose DataSite to FactoryTalk View ME Master>HMI Application Files, then double-click DataSite_ME_Modbus_Serial.apa.

LISTEN. THINK. SOLVE		CCELERATOR TOOI evelopment Tools	
Return to Main Ment DSAT Common Tools DataSite to ControlLogix Master			
DataSite to FactoryTalk View ME Master DataSite to FactoryTalk View SE	Bill Of Material AutoCAD Electrical CAD	dir dir	
Master Help	HMI Application files	dir ngs\kamcinty\Desktop\09-02-20 DataSite_	Accelerator\DataSite_Accelerator\F
		Tools Help Search Folders iettingskampertyt0esktop\09-02-20 DataSite Acceler DataSite_ME_Modbus_Serial.apa APA File 345 KB	

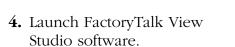
The Application Manager window opens.

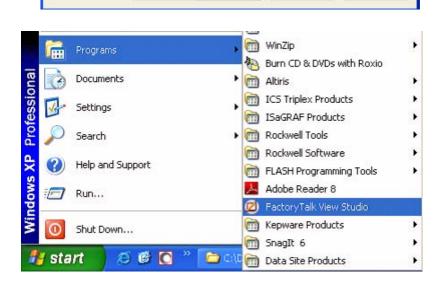
2. Select Restore the FactoryTalk View Machine Edition application and click Next.



3. Type DataSite_ME_Modbus_Serial as the application name, then click Finish.

The Application Manager closes after it restores the application.





Finish

Cancel

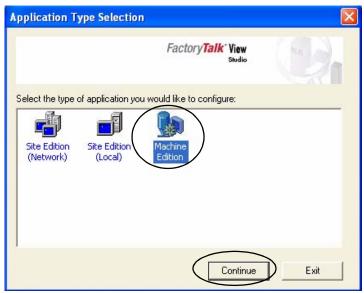
Help

😵 Application Manager

Enter a name for the new application.
DataSite_ME_Modbus_Serial

< Back

5. If this dialog box opens, select Machine Edition and click Continue.



6. Select DataSite_ME_Modbus_Serial from the Existing tab and click Open.

The FactoryTalk View ME application opens.

	Application Name
	Baggage_640x480 Baggage 800x600
E	BizBikes_ME
_	DataSite_ME_CLX DataSite_ME_Modbus_Serial
7	Malthouse Clgx 640x480
	Malthouse Clgx 800x600 Dbjects 5 Screen Demo
	Dbjects_640x480
	Dbjects_800x600 test
1	2005

- 7. Create the .mer file and download to the PanelView Plus 600 terminal.
 - TIP

Refer to <u>Download Project to PanelView Plus Terminal</u> on page <u>61</u> for details on how to create a runtime application and download the .mer application file to the PanelView Plus 600 terminal.

Validate Communication Between DataSite and Terminal

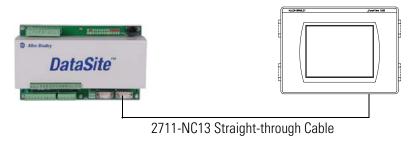
You are now ready to run the .mer application on the PanelView Plus 600 terminal, and validate communication with the DataSite unit. The KEPServer (.pfe) file polls 19 parameters for one meter run and displays the data on the PanelView Plus 600 terminal.

TIP

The validation assumes that AGA calculations were initiated using instrumentation devices or simulated in DS FloConfig. Refer to <u>Chapter 6</u> for more information on how to simulate the AGA process variables.

Follow these steps to validate Modbus Serial communication between the DataSite unit and PanelView Plus 600 terminal.

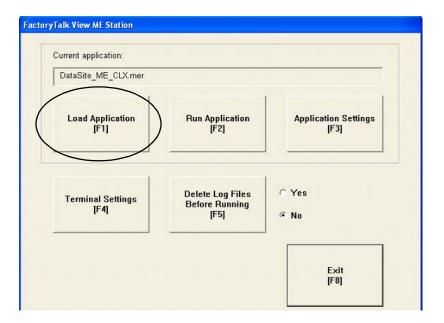
1. Make sure the COM1 or COM2 port of the DataSite is connected to the serial port of the PanelView Plus terminal by using a 2711-NC13 straight-through cable.





If using radios, connect one serial radio to the DataSite and the other radio to the PanelView Plus 600 terminal.

2. From the PanelView Plus terminal, press Load Application [F1] in the FactoryTalk View ME Station dialog box.



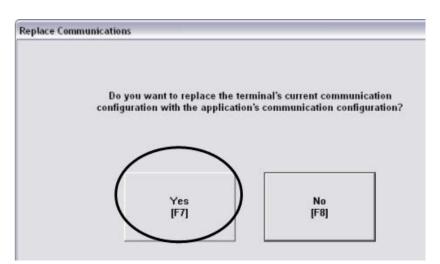
The Load Application dialog box opens.

- **3.** Use the up/down arrows to scroll through the list of applications and select DataSite_ME_Modbus_Serial.
- 4. Press Load [F2].

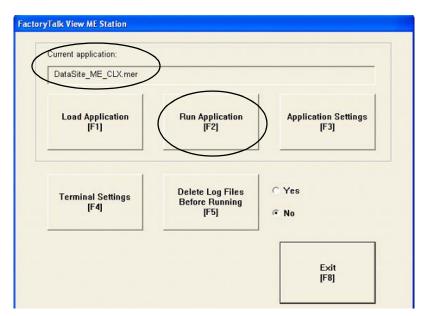
Load Application

5. Press Yes [F7].

If you press No, the communication settings from the previously run project will be used.



- 6. Wait for the application to the load and verify that DataSite_ME_Modbus_Serial. mer appears under Current application.
- 7. Press Run Application [F2].

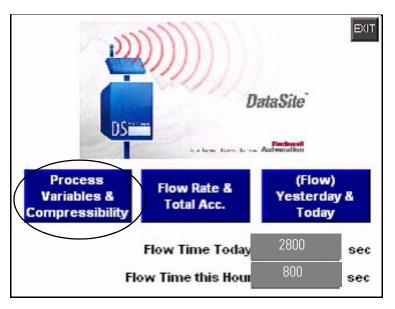


The application builds and displays a DataSite screen on the PanelView Plus terminal.

8. Press Process Variables & Compressibility.

Verify the process variables match the numbers simulated using DS FloConfig:

- Static Pressure = 800
- Temperature = 80
- Differential Pressure = 70



IMPORTANT If the PanelView Plus terminal displays asterisks instead of data, then you need to select a different COM port for the Serial DF1 driver. Skip to page <u>91</u> for instructions on how to change the COM port.

9. Return to the main screen and press the other two blue buttons to view accumulated flow data.

The flow data displayed is for Meter Run 0 (MR0). You can easily add other meter runs by adding the corresponding Modbus registers in the KEPServerEnterprise (.pfe) file. You must then duplicate the ME screens and change the tag names to match their corresponding tag name.

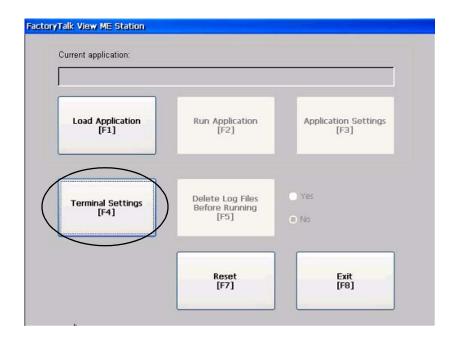
Configuration and validation of the DataSite to ME Master configuration is now complete.

Select a Different COM Port for the Serial DF1 Driver

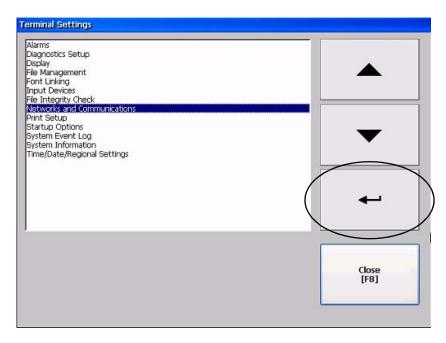
If the variable data appears as asterisks on the PanelView Plus terminal, you need to change the COM port used by the serial DF1 driver. If data appears correctly on the terminal, you can skip this section.

Follow these steps to select a different COM port for the serial DF1 driver.

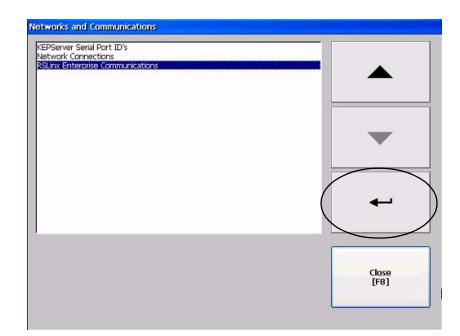
 Press Terminal Settings [F4] in the FactoryTalk View ME Station dialog box.



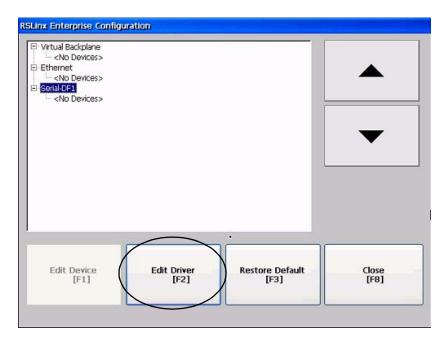
2. Select Networks and Communications, then press the Enter button.



3. Select RSLinx Enterprise Communications by pressing the cursor key, then press the Enter button.



4. Select Serial-DF1, then press Edit Driver [F2].



- **5.** Select COM Port, then press Edit [F1].
- Edit Driver

 Driver Properties
 Values

 Use Auto-Configuration
 No

 Device
 PLC5

 Error Check
 BCC

 Parity
 None

 Baud
 19200

 Stop Bits
 1

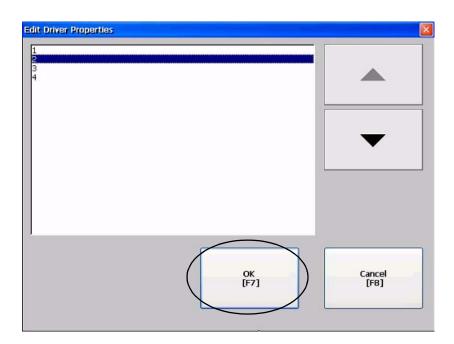
 Act/Pol Timeout (msec)
 3000

 Max Retries
 3

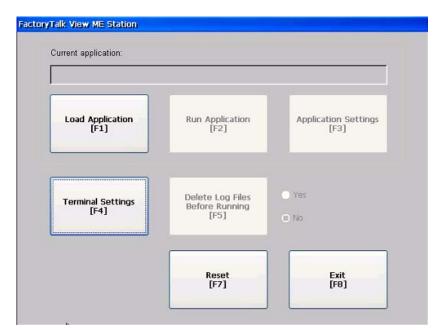
 Station Number
 0

 COMPORT
 1

 Edit [F1]
 Close
- **6.** Select 2, then press OK [F7].



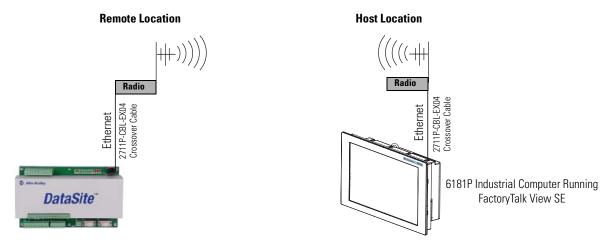
7. Press the Cancel [F8] button until you return to the main menu.



8. Repeat steps 2 through 8 starting on page <u>88</u> to validate the application.

DataSite to FactoryTalk View SE Master

This appendix shows how to configure an industrial computer running FactoryTalk View SE software to communicate with a DataSite unit using Modbus TCP/IP communication. This setup requires KEPServerEnterprise software V4.0 to configure the communication driver.



This configuration is good for small applications that require data logging capabilities but don't require a ControlLogix controller to poll multiple DataSite units. Refer to <u>Appendix A</u> for details on how to configure a PanelView Plus terminal running Factory Talk View ME software to communicate with the DataSite using Modbus serial communication.

TIP

Radios are optional. If your application does not require radios, simply replace the radios with an Ethernet crossover cable connecting the DataSite to the industrial computer.

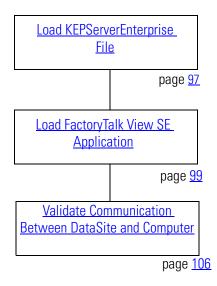
Before You Begin

- Download KEPServer Enterprise software V4.0.
- Connect the DataSite unit to an industrial computer running FactoryTalk View Site Edition (SE) software.
- Radios are optional.

What You Need

- Hardware:
 - DataSite unit
 - 6181P industrial computer or personal computer
 - Two radios, optional
 - Two 2711P-CBL-EX04 Ethernet crossover cables
- Software:
 - KEPServerEnterprise V4.0
 - FactoryTalk View SE
 - DataSite Accelerator Toolkit CD, publication IASIMP-SP011

Follow These Steps



Load KEPServerEnterprise File

Follow these steps to load a KEPServer Enterprise .pfe file that contains Modbus addresses of the parameters to be polled and displayed on the industrial computer.

1. From the DataSite Accelerator Toolkit CD, choose DataSite to FactoryTalk View SE Master>HMI Application Files.

LISTEN, THINK, SOL	VE: DATASITE ACCELERATOR TOOLKIT Use DSAT Development Tools
Return to Main DSAT Common Tools DataSite to ControlLogix Master DataSite to FactoryTalk View ME Master	
DataSite to FactoryTalk View SE Master Help	▶ Bill Of Material uir AutoCAD Electrical CAD uir
нер	HMI Application files Image: C_SUbocuments and SettingsVamemintyDesktopU09-02:20 DataSite_Accelerator/DataSite

2. Copy ModbusEthernet.pfe from the CD to the default project folder for KEPServerEnterprise.

C:\Program Files\KEPServerEnterprise\Projects

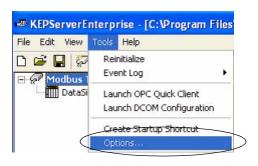
2
👻 🛃 Go

3. Launch KEPServerEnterprise software V4.0.

4	sta		Chip Chip	Snaglt 6 Data Site Products	*	/ew Stu			
Ň	0	Shut Down	1	Kepware Products		MEPServerEnterprise	• 🖻) Utilities	۲
Vindows	0	Run		Adobe Reader 8 E FactoryTalk View Studio				 OPC Quick Client XP Service Pack 2 DCOM Document 	
rs XP	Ø	Help and Support	0	FLASH Programming Tools	,	<		KEPServerEnterprise	
	0	10000000000	0	Rockwell Software			R	Help Documentation	
1010	P	Search	. 6	Rockwell Tools					
Professiona	120	Settings	6	ISaGRAF Products					
	-		8	ICS Triplex Products					
la l	Rà	Documents		Akiris					
	iii	Programs		🛅 WinZip 🙀 Burn CD & DVDs with Roxio	,				
	1000								

4. Choose Open from the File menu, then locate and open the ModbusEthernet.pfe file.

5. Choose Options from the Tools menu.



- 6. Click the Browse button ... to locate the default project ModbusEthernet.pfe.
- 7. Click Apply.
- 8. Click OK.

C:\Program Files\KEPServerEnterprise\Projects\ModbusEthernet.pfe

١

Default projec	am Files\KEPServerEnterprise\Projects\ModbusEthernet.pfe
Keep track of	f the 8 most recently used project files.
Always ba	ackup the last saved project file prior to overwriting the file with new change
1	
Confirmations	
Ask for co	onfirmation when deleting an object.
ALC: NO.ST	onfirmation when an operation will cause clients to be disconnected.
I Prompt to	save project changes.
Exit options	
Select the ac	tion you want to take when the Ask to save (with timeout)
server automa project.	atically shuts down with a modified Timeout: 10 - seconds

Load FactoryTalk View SE Application

The FactoryTalk View SE application contains a screen that controls when to start and stop data logging to an Excel file. It also contains a screen with gas flow data for Meter Run 0.

Follow these steps to load the FactoryTalk View SE application from the DataSite Accelerator Toolkit CD.

1. On the toolkit CD, choose DataSite to FactoryTalk View SE Master>HMI Application files, then double-click the DataSite_SE_Modbus_Ethernet.apa application file.

listen. Think. solve	DATASITE ACCELERATOR TOOLKIT Use DSAT Development Tools
Return to Main Men DSAT Common Tools DataSite to ControlLogix Master DataSite to FactoryTalk View ME Master	
DataSite to FactoryTalk View SE Master	► Bill Of Material dir
Help	AutoCAD Electrical CAD dir HMI Application files dir
	C:Ubocuments and SettingsVkamcintyUbesktopV09-02-20 DataSite_Accelerator\DataSite_Accelerator\F File Edit View Favorites Tools Help Back O Disserve Folders Tools Help C:Ubocuments and SettingsVkamcintyUbesktopV09-02-30 DataSite Accelerator\DataSite_Accelerator\Files\3 - DataSite to File and Folder Tasks TotaSite Accelerator\DataSite_Accelerator\Files\3 - DataSite to DataSite_SE_Modbus_Ethernet PAPA File Other Places Stew Enterprise File Viewer R:Sview Enterprise File Viewer R:Sview

The Application Manager window opens.

2. Select Restore the FactoryTalk View SE (local) application, then click Next.

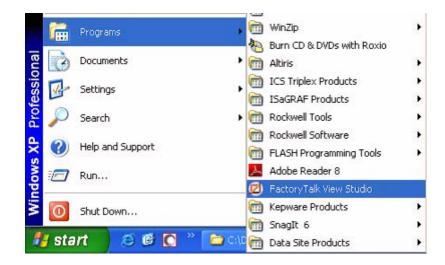
The second se							
Specify the app E:\DataSite to	lication archive t SE Master\Data			_Etherr	net.apa		_
	e FactoryTalk Vi e FactoryTalk Vi					ryTalk Lo	ocal
	< Back	C	Next >	\supset_{-}	Cancel		Help

3. Enter DataSite_ME_Modbus_Ethernet as the application name and click Finish.

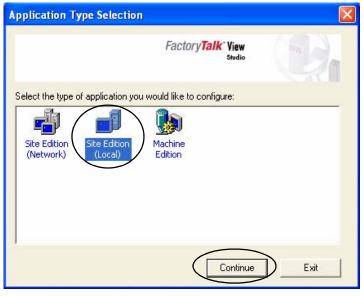
The Application Manager closes after it restores the application.

Enter a name for	Manager	tion		
DataSite_ME_I	viodbus_ethern	et		
		-	1	
	< Back	Finish	Cancel	Help

4. Launch FactoryTalk View Studio software.



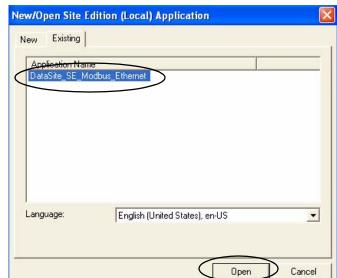
5. If this dialog box opens, select Site Edition (Local) and click Continue.



6. Select

DataSite_SE_Modbus_Ethernet from the Existing tab and click Open.

The FactoryTalk View SE application opens.



7. Click Launch SE Client on the toolbar.

8. Click New.

Launch FactoryTalk View SE Client

🗹 🖬 🚳 🛛

Select a configu /iew SE Client.	uration file and cli	ck OK to launch a	n FactoryTalk
			•
OK	Cancel	Browse	<u>N</u> ew

File View Settings Tools Window Help

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FactoryTalk View Studio - Site Edition (Local)

×

9. Click New.

FactoryTalk View SE Client Wizard	
Welcome to the FactoryTalk View SE Client wizard. To create a new FactoryTalk View SE Client configuration file, click New.	<u>N</u> ew
To edit or run a file, select one from the list below, or type a file name in the File name box, or browse to find and select one, and then click Edit or Run.	
To remove a file name from the list, select it and then click Remove.	
Most recently used configuration files:	
C:\Documents and Settings\All Users\Documents\RSView Enterprise\SE\Client\DataS C:\Documents and Settings\All Users\Documents\RSView Enterprise\SE\Client\datasi	<u>E</u> dit
	Bemove
	R <u>u</u> n
< · · · · · · · · · · · · · · · · · · ·	
<u>File name:</u>	
Help About	Cancel

10. Enter DataSite_Client as the configuration file name, then click Next.

FactoryTalk View SE Client Configuration Name	×
Type the name of a new configuration file:	
DataSite_Client	
Type or browse for the location to store this configuration:	
C:\Documents and Settings\All Users\Documents\RSView Enterprise\SE\Client	
	_
Help About Cancel < Back Next >	

11. Select Local, then click Next.

FactoryTalk Vi	ew SE Client Ap	plication Ty	pe	
Select the type of Network	of SE application the	e client will conn	ect to:	
Help	About	Cancel	< <u>B</u> ac	k Next>

12. Select DataSite_SE_Modbus_Ethernet from the pull-down list or the name of the application assigned during the restore, then click Next.

DataSite_SE_Modbus_Ethernet	•	>
Open FactoryTalk View SE Client	as view-only	
Enable on-screen <u>k</u> eyboard		
Allow display code debuding		
Select the initial runtime language:		
.0		
Select the initial runtime language:	<u> </u>	

13. Select Main from the Initial Display pull-down list, then click Next.

FactoryTalk View SE Clie	nt Components	
Select components.		
Components		
Initial <u>d</u> isplay:	main	
Display <u>p</u> arameters:		
Initial client <u>k</u> ey file:		<u> </u>
<u>S</u> tartup macro:		•
Shutdown <u>m</u> acro:		•
L		
Help Abou	it Cancel < Back	Next >

14. Enter DataSite as the Title bar text and click Next.

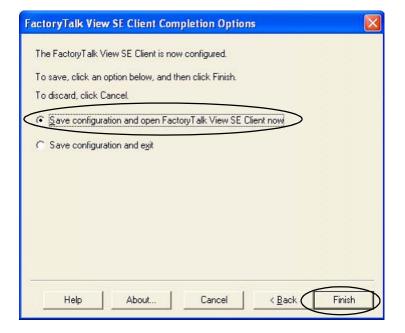
Fa	actoryTalk View SE Client Window Properties	×
_	Specify the properties of the FactoryTalk View SE Client window.	
ζ	Title bar text: DataSite	~
	Show system menu and close button	
	✓ Show Min/Max buttons	2
	☐ <u>M</u> aximize window	
	✓ Show Diagnostics List	
	☑ Allow undocking of Diagnostics List	
	<u>Disable switch to other applications</u>	
	Help About Cancel < Back	\mathbb{D}

15. Click Next.

FactoryTalk View SEC Tolog a userout automati time, enable autologout, a	cally wher	n the keyboard or mo		period of
Inactivity period:	10	minutes		
Help At	bout	Cancel	< Back	Next >

16. Select Save configuration and open FactoryTalk View SE Client now and click Finish.

Factory Talk View SE Client launches the application. Continue to the next section to validate communication and perform data logging.



Validate Communication Between DataSite and Computer

You are now ready to validate communication between the DataSite unit and the industrial computer.

1. Press Meter Run.



Total Flow

Volume Total (Base) 252622785.00 ft3

Mass Total 11233261.00

Flow Accumulated Yesterday

Process Variables

3548540.00 ft3

27455534.00

617810.63

1220233.38

ibm

ft3

ft3

Ibm

Volume Total (Flowing)

Volume Total (Base)

Mass Total

Volume Total (Flowing)

You should see a screen with gas flow values for Meter Run 0.

2. Verify the process variables are correct and press Main Menu.

Static Pressure 800.00 psi Temperature 80.00 F in H2O DP(AGA3) PI(AGA7) 70.00 DataSite ulated Compressibi Main Z (Base) 0.9979 Z (Flowing) 0.9029 DS Automation AUTH-BIANEY - ROCKALL EDITWAR Data Meter Logging Run **Datalogging Control** Main Menu **DataSite**[™] Datalog OFF Datalog ON

Flow Rate

Flow Accumulated Today

1076606.38

18626.19

47872.99

198744176.00

2354772.50

8847248.00

ft3/hr

ft3/hr

lbm/hr

ft3

ft3

10/15/2008

3:29:36 PM

lbm

Volume Rate (Base)

Volume Rate (Flowing)

Volume Rate (Base)

Volume Rate (Flowing)

Mass Rate

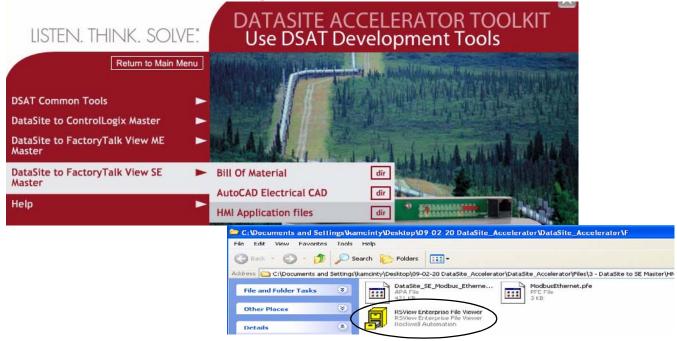
Mass Rate

4. Press Datalog ON.

3. Press Data Logging.

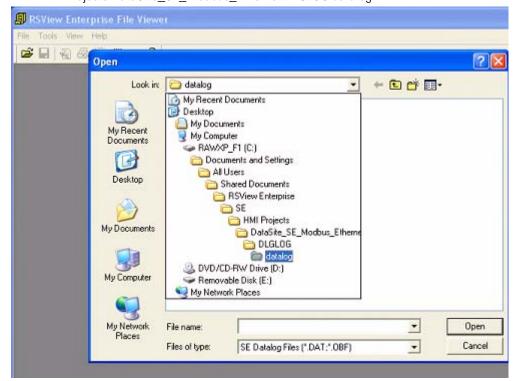
5. Allow data logging to run for about one or two minutes, then press Datalog OFF.

6. On the toolkit CD, choose DataSite to FactoryTalk View SE Master>HMI Application files, then double-click RSView Enterprise File Viewer.



- 7. From the File menu, choose Open.
- **8.** Drill down to the datalog folder and double-click it.

Default Location for datalog folder: C:\Documents and Settings\All Users\Documents\RSView Enterprise\SE\HMI Projects\DataSite_SE_Modbus_Ethernet\DLGLOG\datalog



9. Select the file with the latest date, where the format of the file name is YYYY MM DD 0000 (Float).DAT.

A file similar to this displays.

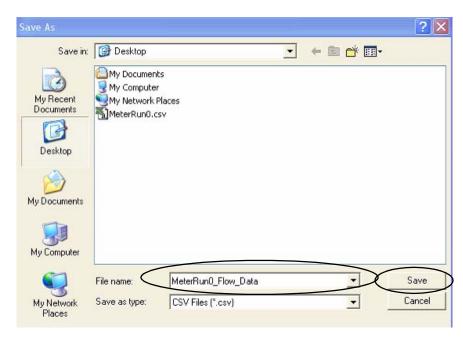
File Tools View Window Help						
i i i i i i i i i i i i i i i i i i i						
Date	Time	Militm	Tagname	Value		
10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.FLOW_TIME_THIS_HOUR	462.00000000		
0/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.FLOW_TIME_TODAY	90996.00000000		
0/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_DP(AGA3)_PI(AGA7)	42.08999634		
0/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_QM_ALL	2146127.0000000		
0/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_QM_TCDAY	979034.56250000		
0/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_QM_VESTERDAY	959276.50000000		
0/1/2008	14:15:47	418	THE REAL WAR AN A PARTICUP TO A LOS TO AN THE ATTAC	32635.43554688		
0/1/2008	14:15:47	418		733932.00000000		
0/1/2008	14:15:47	418	THE RELIE WAS IN A TWO PIECE LAS INC. IN AN INC. SUPERIOR	1080940.0000000		
0/1/2008	14:15:47	418	THE PARTY AND THE PARTY AND THE TAX TO AN THE ADDRESS OF TAXABLE	498629.87500000		
0/1/2008	14:15:47	418		478449.68750000		
0/1/2008	14:15:47	418		16453.57812500		
0/1/2008	14:15:47	418		48263886.000000		
0/1/2008	14:15:47	418	MODELLE TOP IS DATACITE (OD 1/0 10 00 MDD OUL) TOPAU	22015458.000000		
0/1/2008	14:15:47	418		21560690.000000		
0/1/2008	14:15:47	418		647.62500000		
10/1/2008	14:15:47	418		91.77000427		

10. From the File menu, choose Save As.

ا آل ا	File Tools View Wind	low Help		
6	Open	Ctrl+O		
Da _	Close			
6	Save As			
0	Dave Asin			
10	Print Preview			
10	Print	Ctrl+P		
10/-				
.0/	1 2008 10 01 0000 (Fk	pat).DAT		
10/	2 2008 09 16 0000 (Float).DAT			
10/	3 2008 09 15 0000 (Fk	pat).DAT		
10/	4 2008 09 15 0000 (Ta	igname).DAT		
0	Exit			

11. Enter a file name, then click Save.

The file is saved in a .csv format for viewing in Excel.



- **12.** Go to your desktop and locate the file just created.
- **13.** Double-click MeterRun0_Flow_Data.csv to view the data in Microsoft Excel.
- 14. View and manipulate the data if necessary.

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	12		fx				
5,03	A	В	С	D	1	E	
1	;Date	Time	Militm	Tagname	Value	·	
2	10/1/2008	14:15:47		MODBUS TCP_IP.DATASITE 192_168_10_93.FLOVV_TIME_THIS_HOUR		46	
3	10/1/2008	14:15:47		MODBUS TCP_IP.DATASITE 192_168_10_93 FLOW_TIME_TODAY	90996		
4	10/1/2008	14:15:47		MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_DP(AGA3)_PI(AGA7)	42.08999634		
5	10/1/2008	14:15:47		MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_QM_ALL		2146127	
6	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_QM_TODAY	979	979034.5625	
7	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MRD_QM_YESTERDAY		959276.	
8	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_QMH	326	635,4355	
9	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_QVBH		73393	
10	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_QVF_ALL	- 0	108094	
11	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_QVF_TODAY	498629.875		
12	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_QVF_YESTERDAY	478449.6875		
13	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_QVFH	16453.57813		
14	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_QVN_ALL	48263886		
15	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_QVN_TODAY	22015458		
16	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_QVN_YESTERDAY		2156069	
17	10/1/2008	14:15:47	418	MODBUS TCP_P.DATASITE 192_168_10_93 MR0_STATIC PRESSURE		647.62	
18	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_TEMPERATURE	91.	7700042	
19	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93.MR0_ZB	0.	9978610	
20	10/1/2008	14:15:47	418	MODBUS TCP_IP.DATASITE 192_168_10_93 MR0_ZF	0.	0.92688304	

MeterRun0 Flo

w_Data.csv

You have just completed the setup and validation of the DataSite to Master SE configuration.

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At <u>http://support.rockwellautomation.com</u>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <u>http://support.rockwellautomation.com</u>.

Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States	1.440.646.3434 Monday — Friday, 8 a.m. — 5 p.m. EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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