Integrating RF IDeas Readers with PVP Terminals



For Classroom Use Only!

Hands on Technical Training



Allen-Bradley · Rockwell Software



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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.

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IMPORTANT
```

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

ATTENTION

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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
- recognize the consequence

SHOCK HAZARD

Labels may be located on or inside the drive to alert people that dangerous voltage may be present.

BURN HAZARD

Labels may be located on or inside the drive to alert people that surfaces may be dangerous temperatures.

Integrating RF IDeas Readers with PVP and ME Station

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Before you begin

This hands-on lab is intended for those who:

Have some experience with HMI software and Operator Interface

About this lab

The RF IDeas pcProx® Plus is a cutting-edge card reader that is part of the Rockwell Encompass program.

The pcProx Plus combines proximity and contactless technologies into one reader. It is a desktop reader that is capable of reading both 125 kHz proximity cards and 13.56 MHz contactless cards.

This reader eliminates the need for manual entry and provides error-free identification and security throughout the workplace. The pcProx Plus allows users to use their building access card or any 125 kHz or 13.56 MHz tags/labels for other forms of identification.

As a card and badge enroller or reader, it emulates a keyboard to keystroke the card's data to the cursor's location in an application.

The pcProx Plus reader can be used as a stand-alone unit, or can be seamlessly integrated with other software applications. As an integrated reader, it has the ability to work with a multitude of applications



Features at a glance

- Easily integrated with Rockwell products, primarily the PanelView terminals.
- USB device
- Compatible with Windows CE / 2000 / XP / Vista / 7, Macintosh, Solaris ThinManager thin clients, and Linux.
- Versatile mounting options; standard and surface mount.
- IP67 Surface Mount reader is also available.

New this year, out of box, the Rockwell version of the pcProx Plus is configured to work with the Login prompt in a PanelView Plus terminal as well as an enrollment unit. More on this in the lab.

RF IDeas has created a new website to help support Rockwell Automation customers. Please check <u>www.rfideas.com/industry/rockwell</u>

Tools & prerequisites

- FactoryTalk View Studio version 8 or higher
- RF IDeas reader

INTERFACE TYPE		FORM FACTOR	
pcProx Plus	Panel Mount	Panel Mount IP67	Desktop
USB Gray	RDR-805W1AGU-RA	KT-805W1AGU-RA-IP67	N/A
USB Black	RDR-805W1AKU-RA	KT-805W1AKU-RA-IP67	RDR-80581AKU-RA
Ethernet Industrial Protocol (EIP) Black – for PLC	RDR-805W1AKB-P	KT-805W1AKB-P-IP67	RDR-80581AKB-P

Document Conventions

Throughout this workbook, we have used the following conventions to help guide you through the lab materials.

This style or symbol:	Indicates:
Words shown in bold italics (e.g., RSLogix 5000 or OK)	Any item or button that you must click on, or a menu name from which you must choose an option or command. This will be an actual name of an item that you see on your screen or in an example.
Words shown in bold italics, enclosed in single quotes (e.g., 'Controller1')	An item that you must type in the specified field. This is information that you must supply based on your application (e.g., a variable). Note: When you type the text in the field, remember that you do not need to type the quotes; simply type the words that are contained within them (e.g., Controller1).
	The text that appears inside of a gray box is supplemental information regarding the lab materials, but not information that is required reading in order for you to complete the lab exercises. The text that follows this symbol may provide you with helpful hints that can make it easier for you to use this product. Most often, authors use this "Tip Text" style for important information they want their students to see.

Note: If the mouse button is not specified in the text, you should click on the left mouse button.

Integrating PVP with RF IDeas Readers

Create a New ME Application

- 1. Start the *FactoryTalk View Studio* software. From the Windows *Start* menu, go to *All Programs* → *FactoryTalk View Studio*.
- 2. We are creating a View Machine Edition application.

In the Application Type Selection window select View Machine Edition and click Continue.

oplication Type Selec	tion		
Factory	Talk ° Vie	w Studio	
ielect the type of applic	ation you would like to	configure:	
View Site Edition (Network Distributed)	View Site Edition (Network Station)	View Site Edition (Local Station)	View Machine Edition
		Co	ntinue Exit

- 3. In the New/Open Machine Edition Application window, do the following;
 - Select the *New* tab.
 - Enter an application name, for example MobileView.
 - Click Create.

New/Open Machine Edi	tion Application	×
New Existing		
Application name:	MobileView	
Description:		-
Language:	English (United States), en-US]
	Create Import Cancel]

Configure Project Settings

4. From the Explorer pane, double-click *Project Settings*.



5. Select the appropriate terminal size that you will use.

To use the new MobileView terminals, select PVPlus 7 Standard/Performance 12" Wide (1280x800) To use the PVP7 15" terminals select PVPlus 7 Standard/Performance 15" (1024x768)

🚔 Project Settings - /MobileView/	- 🗆 🗵
General Runtime	
Project window size :	
PVPlus 7 Standard/Performance 12'' Wide (1280x800)	ㅋ
Width: 1280 Height: 800	
Execute MER on PanelView Plus 7 Standard	
Execute MER on PanelView Plus 7 Performance	
Please save Alarm Setup edits before changing the Project Window Size setting between PanelView Plus Compact and PanelView Plus, or vice versa.	
Any unsaved Alarm Setup changes will be lost if the Project Window Size setting is changed from a PaneMiew Plus to PaneMiew Plus Compact terminal, or vice versa.	
OK Cancel	

Here is the list of terminals and their respective screen resolutions.

PVPlus 400/600 (320x240) PVPlus 700/1000 (640x480) PVPlus 1250 (800x600) PVPlus 1500 (1024x768) PVPlus Compact 400/600 (320x240) PVPlus Compact 1000 (640x480) PVPlus 7 Standard 4" Wide (480x272) PVPlus 7 Standard/Performance 6"/7" (640x480) PVPlus 7 Standard/Performance 9" Wide (800x480) PVPlus 7 Standard/Performance 10" (800x600) PVPlus 7 Standard/Performance 12" Wide (1280x800) PVPlus 7 Standard/Performance 15" (1024x768) PVPlus 7 Performance 19" (1280x1024) 640x240 1152x854 1280x1024 Custom size

- 6. Click OK.
- 7. In the Graphic Display Scaling, leave all boxes checked and click OK.



8. If the selected popup is displayed, click **OK**.

Project S	ettings Editor	×
4	The application aspect radio will change from 4:3 to 8:5. Some objects and images may be stretched or distorted.	
	Yes No	

Configure Runtime Security

9. From the Explorer pane, double-click *Runtime Security*.



10. Click *Add* to add a new user group.

By Default, the application runtime security includes the DEFAULT user with full access rights.

📾 Runtime Security - /MobileView/																	I,
ME Runtime 4.00 and later ME Runtime 3.20 and ea	arlier	· [5
Use this tab to specify the FactoryTalk Security acco Select a FactoryTalk Security account with the Add buttons () to select optional Login and Logout mac	butto	on a	ind t	hen	as:	sign				-							- E
Account ID:		Γ		curi			- a		5	ī r			(Close	•		
Login Macro:							• •							Prev			1
Logout Macro:			☑	T		J	₽	K		Ē L	.			Next	:		
Add				М		N		0		F	>			Help			
Account	A	в	С	D	Ε	F	G	н	I	J	К	L	м	Ν	0	P.	₽Þ
1 DEFAULT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	7

11. Select the *Administrators* user group and click *OK*.

The default in the *Select User or Group* window deafults to show groups only. This is because it is highly recommended to configure security around User Groups and not Users for easy management and modifications.

Select User or Group	<u>- </u>
All Users Administrators Authenticated Users Windows Administrators	
Create New ->	
Filter Users © Show groups only	
 Show users only Show all 	
OK 💦 Cancel 🛛	lelp

12. From the Runtime Security window, click *Add* again to add another user group.

🐲 Runtime Security - /MobileView/															-	
ME Runtime 4.00 and later ME Runtime 3.20 and ear	lier	ĺ														
Use this tab to specify the FactoryTalk Security accound Select a FactoryTalk Security account with the Add b buttons () to select optional Login and Logout macro	utto	n ar	nd th	nen	ass						-					2
Account ID: [\$ADMINISTRATORS]		Γ		_	y Co			_	•				C	lose	!	
Login Macro:									v V				F	're <u>v</u>]]
Logout Macro:			•	I	•	J	•	К	☑	L			N	lext		
Add Remove				м		N		0	•	Ρ			H	<u>l</u> elp		1}
Account	A	в	С	D	E	F	G	Н	I	J	к	L	м	N	0	P
1 DEFAULT	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	Υ	Υ	Υ	Υ	Y
2 [\$ADMINISTRATORS]	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	¥ Þ
Sand and a start and a start and a		~	ð	~	J					~				~	~	

13. From the Select User Group window, click Create New ->.

Select User or Group	
All Users Administrators Authenticated Users Windows Administrators	
Create New Filter Users Show groups only Show users only Show all	
OK. Cancel H	Help

14. And then click on User group...



ew User Grou	p	
General		
Name:	Operators	
Description:		
E-mail:		
Members:		
Laboration of the laboration o		-
-		
	Add Remay	/e
	Add Remuty	/e,.,
	Add Remay	/e,

15. In the New User Group dialog, enter Operators and click OK.

16. In the Select User Group dialog, make sure **Operators** is selected and click **OK**.

Select User or Group	
All Users Administrators Authenticated Users Operators Windows ministrators	
Create New ->	
Filter Users Show groups only	
 Show users only Show all 	
OK 🔀 Cancel H	lelp

17. Two groups have been added to the Runtime Application. In this lab, we will leave all security codes checked. We will use visibility animation based on the group the user belongs to as way to secure or hide objects and elements from specific users. Click *Close*.

🖙 Runtime Security - /MobileView/													-	
ME Runtime 4.00 and later ME Runtime 3.20 and e	arlier	ĺ												
Use this tab to specify the FactoryTalk Security acc Select a FactoryTalk Security account with the Add buttons () to select optional Login and Logout mac	buttor	n an	d ther	i ass										
Account ID: DEFAULT			Sec <u>u</u> ri 🔽 A	-			r	5	n			<u>C</u> lo	ose 🗋	
Login Macro:												Pr	e <u>v</u>	
Logout Macro:			V I	◄	J	☑	К	•	L			Ne	ext	
Add Remove			м		Ν	☑	0	V	Ρ			He	elp	
Account	A	в	CD	E	F	G	н	L	J	к	L	м	NO	P
1 DEFAULT	Y	Y	ΥY	Υ	Υ	Y	Y	Y	Y	Y	Y	Υ'	ΥY	Y
2 [\$ADMINISTRATORS]	Y	Υ	ΥY										ΥY	Y
3 [OPERATORS]	Y	Y	YY	Y	Y	Y	Y	Y	Y	Y	Y	Y '	Y Y	Y
			-									_	/	

18. When prompted to save, click **Yes**.

Runtime Security	×
Save changes to document?	
Yes No Cancel	

Create FactoryTalk Users

19. Locate the **System** folder in the bottom half of the *Explorer* pane, expand **Users and Groups**, right-click **Users** and select **New** → **Users**... as shown below.



20. In the New User dialog, do the following;

- For the User name, enter **op1**
- Check the **Password never expires** checkbox.
- Click the *Group Membership* tab.

New User		×
General Group Membe	ership	
User name:	op1	
Full name:		
Description:		
E-mail:		
🔲 User must change	password at next logon	
User cannot chang	je password	
Password never ex		
Account is disabled	1	
		.
Password:		1
Confirm:	, [
Commit	1	
	OK Cancel Help	
	OK Cancel Help	

21. Under the Group Membership tab, click Add.

New User		×
General Member	Group Membership r of:	_
	and some some and	
,	Add Remove,	
	OK Cancel He	lp

22. From the Select User Group dialog, select the group we created earlier called **Operators** and click **OK**.

Select User Group	
Administrators	
Create New -> Filter Users Show groups only	
OK Cancel	Help

23. The operators group should now be listed indicating that the new op1 user user is a member of the Operators group. Click **OK** to save and close.

New User	X
General Group Membership Member of:	[
Operators	and a second
Add	Remove
OK Cancel	Help

- RSLinx Enterprise
 RSLinx Enterprise
 System
 Action Groups
 Policies
 Subset and Devices
 Users and Groups
 User Groups
 User Groups
 Groups
- 24. Let's add one more user. Right-click *Users* and select *New* → *Users…* as shown below.

25. In the New User dialog, do the following;

- For the User name, enter *admin*
- Check the **Password never expires** checkbox.
- Click the *Group Membership* tab.

New User		×
General Group Membe	ership	_
User name:	admin	
Full name:		
Description:		
E-mail:		
🔲 User must change	password at next logon	
User cannot chang	je password	
Password never ex		
Account is disabled	1	
Password:		
Confirm:		
	OK Cancel Help	

26. Under the *Group Membership* tab, *Add* the *Administrators* group as shown below so the user we are creating is a member of the Administrators group.

New User		×
General Group Member Member of:	ership	
Administrators		
	Add	Remove
	ок 🔓 🤇	Cancel Help

27. Click *OK* to save and close.

Add a new Display

28. Let's add a new display to the application. We will secure and control who has access to it. Still in the Explorer pane, right-click on *Displays* and select **New.**



29. A blank display is shown. First, we need to add a way to navigate back to Main display. From the View Studio main menu, go to *Objects → Display Navigation → Goto*.



30. Add the Goto button somewhere on the display (size and location does not matter for this lab).

31. Once the Goto button is added, the properties windows is displayed automatically. Use the Browse button to browse to the *Main* display that this button will navigate to when pressed at runtime.

Goto Display Button Properties	×
General Label Common Connections	
Appearance Border style: Border width: Raised ✓ Back style: Pattern style: Solid ✓ Shape: ✓ Rectangle ✓	
Display settings Display: MAIN Use variable Display Parameter file:	
Parameter list: Display position Top position: Left position: Use Variable Display Position	
Touch margins Horizontal margin: Vertical margin: 0 Other Vertical margin:	
OK Cancel Apply Help	 >

Goto Display Button Propertie		2
Caption		
Font: Arial Caption color Caption back color Caption blink Vord wrap	Size: 10 💌 Alignment C C C C C C	Insert Variable B U Caption back style: Transparent V
Image settings	Image back st	tyle:
 Image color Image back color Image blink Image scaled 	Alignment CCC CCC CCC	
ОК	Cancel	Apply Help

32. Under the Label tab, enter *MAIN* as the *Caption* and click *OK*.

We'll add 2 more buttons to that display.

33. From the View Studio main menu, go to *Objects* → *User Management* → *Add User/Group*.

EactoryTalk	View Studio - View Machine Edition
ile Edit View	Objects Arrange Animation Application Tools Window Help Select Image: Constraint of the second sec
	User Management Add User/Group Advanced Delete User/Group Advinced Modify Group Membership ActiveX Control Unlock User Import Enable User Symbol Factory Digable User Login Logout Password Change User Properties

This button is only available starting with version 8 of FactoryTalk View Studio and is only supported with PVP terminals running firmware version 8 or newer.

34. Add the new button somewhere on the display (size and location does not matter for this lab).

35. Once the button is added, the properties windows is displayed automatically. Under the *Label* tab, enter *Add User* and click *OK*.

Add User	/Group	Button I	Propertie	:5				X
General	Label	Commo	n]					
_ Capti	ion							
Ad	d User							
					Ins	ert Variable		
Font		•		Size:	В	ΙU		
	Caption o Caption b Caption b Word wra	ack color Ilink		Alignment CCC CCC CCC		n back style parent 💌	:	
⊢lmag	e setting	s						
Imag	je:			Image back s	style:			
				Transparent	•			
	mage co			Alignment				
	mage ba mage bli			cec .				
	mage sc			000				
			ок 📐	Cancel	Ι Δ.	oply	Help	
			011			- PPG	nep	

Key Assignments for RF IDeas

36. Right-Click the newly added Add User button and select *Key assignments*.



37. Change the *Select a key assignment* field to **12 – F12** and click **OK**.

Key Assignment Properties	×
Select an object: AddUserGroupButton2 (F12) GotoDisplayButton1	Select a key assignment:
OK 2	Cancel Apply Help

F12 is used by default with the RF IDeas readers to enroll a user.

38. One more button to add to this display. From the View Studio main menu, go to **Objects** → **User Management** → **Modify Group Membership**.

FactoryTalk	View Studio - View Machine Edition
File Edit View	Objects Arrange Animation Application Tools Window Help
2 - 3	Select Rotate Drawing Push Button Numeric and String Display Navigation Indicator
	Ga <u>ug</u> e and Graph
	User Management Add User/Group Advanced Delete User/Group ActiveX Control Unlock User
	Import Enable User
	Symbol Eactory Login Logout
	Pass <u>w</u> ord <u>C</u> hange User Properties

This button is only available starting with version 8 of FactoryTalk View Studio and is only supported with PVP terminals running firmware version 8 or newer.

39. Add the new button somewhere on the display (size and location does not matter for this lab).

40. Once the button is added, the properties windows is displayed automatically. Under the *Label* tab, enter *Change User Group* and click *OK*.

Modify Group Membership B	utton Properties		×
General Label Common			
_ Caption			1
Change User Group	~	<u>_</u>	
	-	Insert Variable	
Font: Arial	Size:	B I U	
Caption color Caption back color Caption blink Vord wrap	Alignment CCC CCC CCC	Caption back style: Transparent	
Image settings			
Image:	Image back styl		
Image color	Alignment	_	
 Image back color Image blink Image scaled 	000 000 000		
ОК	Cancel	Apply Help	

The display should look similar to the following,

Add User			
Change User Group			
		MAIN	

41. Save the display and when prompted for a name, enter *AdminDisplay*.

Save	×
Component name:	
AdminDisplay	
ОК	Cancel

42. Close 🖾 the newly created AdminDisplay.

Visibility Animation

43. In the Explorer pane, under Displays, double-click the display called *MAIN*.

44. Let's configure a way to navigate to the AdminDisplay created earlier. From the View Studio main menu, go to *Objects → Display Navigation → Goto*.

🖉 Factory Talk '	View Studio - View Mach	ine Edition
File Edit View	Objects Arrange Anima	ation Application Tools Window Help
2 - 4	 ✓ Select Rotate Drawing Push Button Numeric and String Display Navigation 	►
	<u>I</u> ndicator Ga <u>u</u> ge and Graph <u>T</u> rending RecipeP <u>l</u> us <u>K</u> ey User Management	Return To Close Display List Selector
	Advanc <u>e</u> d <u>A</u> ctiveX Control Import Symbol <u>F</u> actory	• •

45. Add the Goto button somewhere on the display (size and location does not matter for this lab).

46. Once the Goto button is added, the properties windows is displayed automatically. Use the Browse button to browse to the *AdminDisplay* display that this button will navigate to when pressed at runtime.

General Label Co		·		
Border style: Raised Back style: Solid Shape: Rectangle	Border 4 Pattern None		Border uses ba Back color Border color Pattern color Highlight color Blink	
Display settings - Display: Admi O Parameter fil	e:] -	Use variable D	lisplay
 Display position Use Variable 	n Top position:	0 Left	position:	
Touch margins - Horizontal mar 0 Other	gin: Vertica 0	al margin:		
Audio				

47. Click OK.

48. Right-click the newly added Goto button and select *Animation* → *Visibility*.

AdminDisplay		
	Properties Connections	
	Key Assignments	
	Arrange	
	Ani <u>m</u> ation	<u>V</u> isibility
	Convert to <u>W</u> allpaper	<u>C</u> olor
		<u>Fill,</u>
_	Tag Substitution	Horizontal Position,
	P <u>r</u> operty Panel	Vertical Position
	Object Explorer	<u>Wi</u> dth
	Cut	Height Rotation
		Horizontal Slider
	Paste	Vertical Slider
	Paste without localized strings	
	Delete	
	Dup <u>l</u> icate	
	Cop <u>v</u> Animation	
	Paste Animation	
	Global Object Defaults	
	Global Object Parameter Values	
	Global Object Parameter Definitions	
	Edit Base Object	
	Break Link	

Animation			2
Horizontal <u>P</u> osition	Vertical Position	Horizontal Slider	Ver <u>t</u> ical Slider
E	To <u>u</u> ch		OLE Verb
¥isibility	<u>R</u> otation	<u>W</u> idth	Height
Expression Expression true state Invisible © Visible	e	Apply Delete	Tags Expression Close Help

49. Under the Visibility tab, click the *Expression* button.

50. In the expression editor, click *Functions*.

Expression						
						A
						_
Г. и. ([]			- 1
lf	Logical	Relational	Arithmetic	Bitwise	Functions	Tags
Check Syntax						

51. In the functions selection dialog,

- Select the **Security** category.
- Select CurrentUserHasGroup
- Click OK.

Functions		×
Function Categories All Math Security Language	Choices within Category CurrentUserHasCode(security letter) - current user has code CurrentUserHasGroup(user group name) - current user has group CurrentUserName() - name of current user	
	OK Cancel Help	

The function is added to the expression editor.

ΞE	xpression						
	CurrentUserHa	asGroup()					*
	-						
	∢						Þ
	<u>l</u> f	Logical	<u>R</u> elational	Arithmetic	<u>B</u> itwise	Eunctions	<u>T</u> ags
				·			
	Check						
	<u>S</u> yntax						

52. Modify the expression to include the appropriate group.

- Between the parentathis of the function, enter "Administrators" including the quotes as shown below.
- Click the *Check Syntax* and make sure it is Valid.
- Click OK.

Expression Editor	×
Expression	
CurrentUserHasGroup("Administrators")	1
If Logical <u>Relational</u> <u>Arithmetic</u> <u>Bitwise</u> <u>Functions</u> <u>Iags</u>	
<u>Svntax</u> _	
Line: 1 Column: 38	
OK Cancel <u>H</u> elp	

53. Click *Apply* and *Close* to save and close the animation configuration.

Animation			×				
Horizontal <u>P</u> osition	Vertical Position	Horizontal Slider	Ver <u>t</u> ical Slider				
<u> </u>	To <u>u</u> ch	Color	OLE Verb				
✓ ¥isibility	<u>R</u> otation	<u>₩</u> idth	Height				
Expression CurrentUserHasGroup("Administrators") Tag Expression Expression Expression							
Expression true state O I <u>n</u> visible O Visi <u>b</u> le <u>Apply D</u> elete Close Help							

This button is now only visible to members of the administrators group at runtime.
Add a Login button

54. From the View Studio main menu, go to *Objects* → *User Management* → *Login*.

FactoryTalk	View Studio - View Machine E	dition
File Edit View	Objects Arrange Animation	Application Tools Window Help
🗹 🖬 🎒	Select	3 ▲ ▲ ★ ■ ▲ ▲
]] —	R <u>o</u> tate	
	Drawing	•
	Push Button	•
	Numeric and String	+
	Display Navigation	+
	Indicator	•
	Gauge and Graph	•
	Trending	•
	RecipePlus	•
	<u>K</u> ey	<u>•</u>
	User Mana <u>q</u> ement	Add User/Group
	Advanc <u>e</u> d	Delete User/Group Modify Group Membership
	ActiveX Control	Unlock User
	Import	<u>E</u> nable User
	Symbol <u>F</u> actory	Di <u>s</u> able User
		- Login
		Logout
		Pass <u>w</u> ord
		Change User Properties

55. Add the new button somewhere on the display (size and location does not matter for this lab).

56. Once the button is added, the properties window is displayed automatically. Under the *Label* tab, enter *Login* and click *OK*.

Login Button Properties			X
General Label Common Co	nnections		
Caption			- I
Login			
Font:	Size:	Insert Variable	
Arial	10 💌	B I U	
Caption color Caption back color Caption blink Vord wrap	Alignment CCC CCC CCC	Caption back style: Transparent	
Image settings			
Image:	Image back s	tyle:	
	Transparent	•	
 Image color Image back color Image blink Image scaled 	Alignment CCC CCC CCC		
ОК	Cancel	Apply He	

Key Assignments for RF IDeas

57. Right-Click the newly added Add User button and select *Key assignments*.



58. Change the Select a key assignment field to 11 – F11 and click OK.

Key Assignment Properties	×
General	
Select an object: LoginButton4 (F11) GotoDisplayButton1 ShutdownButton1	Select a key assignment:
ОК	incel Apply Help

F11 is used by default with the RF IDeas readers to login a user.

Display the logged in User

59. Add a String Display object. From the View Studio main menu, go to **Objects** → **Numeric and String** → **String Display**.



- 60. Add the new object somewhere on the display (size and location does not matter for this lab).
- 61. Once the object is added, the properties window is displayed automatically. Under the *Connections* tab, click the *Expression* button shown below.

s	tring Displa	y Prop	erties			×
	General Co	mmon	Connections			
	Name		Tag / Expression		Tag	Exprn
	Value	+			•••	•••
Ve				<i>—</i>		1

62. In the expression editor, click *Functions*.

Expression						×
If Check Syntax	Logical	Relational	Arithmetic	Bitwise	Functions	Tags

63. In the functions selection dialog,

- Select the **Security** category.
- Select CurrentUserName
- Click OK.

Functions		X
Function Categories All Math Security Language	Choices within Category CurrentUserHasCode(security letter) - current user has code CurrentUserHasGroup(user group name) - current user has group CurrentUserName() - name of current user	
	OK Cancel Help	

64. The function is added to the expression editor. Click **OK**.

Expression Editor	x
Expression	
CurrentUserName()	
If Logical Relational Arithmetic Bitwise Functions Iags	
Check <u>S</u> yntax	
Line: 1 Column: 21	
OK Cancel <u>H</u> elp	

65. Click *OK* to save and close the String Display Properties.

String Display P	roperties	×
General Comm	on Connections	
Name	Tag / Expression	Tag Exprn
Value 🔶	CurrentUserName()	••••
	ma ser sus	
	OK Cancel Apply	Help

The Main display should look similar to the following,

admin	
	Login
	AdminDisplay
	Shutdown

66. **Save** the MAIN display.

Create Runtime Application

67. From the View Studio main menu, go to *Application* -> *Create Runtime Application*.



			-			
Create Runtin	ne Application					×
Save in:	🔒 Runtime		•	G 🤌	••• 🎦	
S	Name 🔺	No item	→ Date ns match your se	modified arch.	▼ Type	•
Recent Places						
Desktop						
Libraries						
N						
Computer						
Network						
NELWOIK	•					F
	~	M L I M				Save
	File name:	MobileView.mer			<u> </u>	
	Save as type:	Runtime 8.0 Applica	ation (*.mer)			Cancel
Г	Conversion to dev	elopment application				Help
	Always allow of a state of the state of t					
	C Never allow co					
		otected by password			_	
	Password:					
	Confirm Password:					

68. Save as type Runtime 8.0 Application (*.mer)

69. Click Save.

Wait for the runtime file creation to complete.

Creating runtime	e file	
compression		
TagMOBILEVIE	W_log.ldl	
		-
Cancel		

Transfer Application

There is no need to transfer the application to run it locally on your computer.

Use the network share to transfer the application to the MobileView.

To transfer the application to the PVP7 Performance 15", please follow the steps below. Otherwise jump to page 48.

70. From the View Studio main menu, go to **Tools → Transfer Utility**.



71. In the Transfer Utility window, please do the following,

- Browse for the MER file that we saved under the default location.
- Check the box to *Run application at start-up*
- Select the PanelView Plus at your station.
- Click **Download**.



72. If the file already exists, click **Yes** to replace.



Wait for the transfer to complete

Downloading		×				
Source: C:\Users\Public\Documents\RSViewEnterprise\ME\Runtime\MobileView.mer						
Destination: \Application Data\Rockwell Software\RSViewME\Runtime\MobileView.mer						
		97%				
Status: Downloading						
Cancel						

73. When complete, click OK.

Transfer Utility		
1	The download has completed successfully.	
	OK	

74. Click *Exit* to close the Transfer Utility.



Test your Application

75. With the application running, the MAIN display is shown first and the current DEFAULT user is shown as logged in. NOTE that the navigation button to the AdminDisplay is not visible. Tap the *Login* button.

DEFAULT	
	Login
	Shutdown

76. At the login prompt, enter op1 as the User name and Tap Login [Enter].

Login		
User Name [F2]	op1	Login [Enter]
Password [F3]		Cancel [Esc]
Result:		

77. The MAIN display will reflect the new user that is logged in now (op1) and the navigation button to the AdminDisplay is still not visible. The username op1 is not part of the administrators group. Tap *Login* again.

	op1			
			Login	
		_		
			Shutdown	

78. At the login prompt, enter *admin* as the User name and Tap *Login [Enter]*.

Login		
User Name [F2]	admin	Login [Enter]
Password [F3]		Cancel [Esc]
Result:		

79. The MAIN display will reflect the new user that is logged in (admin) and the navigation button to the AdminDisplay is now visible. The username admin is part of the administrators group. Tap *AdminDisplay*.

_		
	admin	
		Login
		AdminDisplay
		Shutdown

RF IDeas reader in action at runtime

You should now be looking at the AdminDisplay.

Add Llow		
Charge User Group		
	MANN	

80. With the AdminDisplay open, simply swipe your HID card across the RFID reader.



You have just added the card that was swiped as a new user to the application. It is that simple!!!!

How the RFID Card Reader Works

The F11 key is assigned to the Login button in the Machine Edition application. The F12 key is assigned to the Add User button – this button performs the FactoryTalk Security enrollment function.

Single Factor Logon, Two-Factor Logon, and Enrollment are all possible with the same reader. All you have to do is assign the appropriate function keys in your application – F10, F11, or F12.

Every time the RFID card is swiped, the reader sends the following:



81. Before we can test logging in with the card we swiped, we have to add it to a user group. Tap the *Change User Group* button.

Add User			
Change User Group			
		MAIN	

82. Tap Select User/Group [F2]

Modify Group Membership	
Select User/Group [F2]	Add to Group [F4]
	Remove from Group [F5]
FactoryTalk Group [F3]	Cancel [Esc]
Result:	

83. Select the newly added card ID. Note that your card ID will not match the card ID shown below.



- 84. Tap **Select [Enter]** shown above.
- 85. Tap FactoryTalk Group [F3]

Modify Group Membe	rship	
Select User/Group [F2]	3252440253	Add to Group [F4]
<u> </u>		Remove from Group [F5]
FactoryTalk Group [F3]		Cancel [Esc]
Result:		

86. Select the *Operators* group and tap *Select [Enter]*



87. Tap Add to Group [F4]. Note that your card ID will not match the card ID shown below.

Modify Group Member	rship	
Select User/Group [F2]	3252440253	Add to Group [F4]
		Remove from Group [F5]
FactoryTalk Group [F3]	Operators	Cancel [Esc]
Result:		

The result field displays whether we were successful or not. In this case, the user was added successfully to the user group 'Operators'. *Note that your card ID will not match the card ID shown below.*

Modify Group Membership	
Select User/Group [F2]	Add to Group [F4]
	Remove from Group [F5]
FactoryTalk Group [F3]	Cancel [Esc]
Result: Added user '3252440253' to	o user group 'Operators'.

88. Navigte back to the MAIN display by tapping on the *MAIN* button.

Add User	
Change User Group	
	MAIN

You should now be looking at the MAIN display.

Login	
AdminDisplay Shutdown	

89. Swipe your HID card across the RFID reader.



You are now logged in as the HID card ID. Recall that we added the card as a member to the Operators group. Since it is not a member of the Administrators group, the navigation button to the AdminDisplay is not visible.

3252440253	
	Login
	Shutdown

You have successfully completed this lab!

Notes

Notes