

QUICK START

DevCom uses Device Descriptions (DDs) to access data stored in the memory of the smart field device. These DDs are developed by the manufacturer for their products and, in turn, distributed by the FieldComm Group (FCG) worldwide. The latest DDs are included as part of the DevCom installation. Visit the FCG website (www.fieldcommgroup.org) or the ProComSol website (www.procomsol.com) for update information.

The following steps will allow you to install and quickly begin using DevCom:

Step 1: Setup Your Android Device

1. Allow installation of apps from sources other than the Play Store

Note: Below is for Samsung Galaxy 4, your Android device may have different key sequences.

a) Tap bottom left button on your Android device (Menu Button)

- b) Select Settings
- c) Select More
- d) Select Security
- e) Enable Unknown sources
- 2. Turn on Bluetooth
- 3. Connect Android device to PC via the USB cable.

Step 2: Install the DevCom App

1. Copy the file "com.procomsol.devcom.apk" to your device. Find it using a File Browser App and click on it to launch the Install App. See Section 4.2.1 for details

Step 3: Activate DevCom License

Launch DevCom by selecting the DevCom icon.

You will be shown the number of days you can run before activation is required. You can use it for up to 10 days before you need to activate it. Activation only needs to occur once. See Section 4.2.2 for details.

Step 4: Install DD Library

After DevCom is licensed or Demo mode is entered, you will be prompted to download the DD Library.

The Install could take up to 15 minutes based on your internet speed. If internet is not available you can use the DD Library Install App, "com.procomsol.devcom.dd.apk". See Section 4.2.3 for details.

Step 5: Connect the communication interface

Connecting to a HART device requires special interface hardware. These interfaces ("HART Modems") are available from ProComSol, Ltd and other sources. The interface should be connected and configured. The preferred interface is a Bluetooth HART Modem - ProComSol, Ltd model HM-BT-BAT-ER or HM-BLE if your Android device supports Bluetooth Low Energy. See Section 4.2.4 for details.

On initial start the App will prompt you for a HART modem to use. Make sure your modem is turned on and tap the "Scan for Bluetooth Devices" button in DevCom. Select your HART Modem and perform the Pairing operation. Enter 1234 for the pairing code. Note that pairing is not required for the HM-BLE modem.



Step 6: Connect to the field device

Find a connection point for the device's 2-wire 4-20mA loop you wish to communicate with. For communications you must have a suitable load resistance or a 250Ω resistor must be placed in series with the device. Using the clips from the HART modem, connect to the HART device. While the HART Communication signal is available anywhere along the 4-20mA wiring, it is often easiest to connect across the field device's terminals (caution should be observed when working in a hazardous area, many Android devices are not rated for intrinsic safety and should only be connected in a safe area).

Step 7: Browse the Device

On initial start, DevCom sends a command to the field device, establishes a connection, and learns its identity. Once DevCom knows the device identity, it locates the device's DD in the library and loads it. From this point forward operation of DevCom is determined by the DD provided by the device manufacturer. If a DD for the device is not present, a generic DD will be used.

Menus and data are presented using a tree scheme. The organization of the data in the display window is dictated by the device DD. The display shows menus and data. To navigate to a different menu simply select it. To return to the previous menu, press the "Back" key on the device.

Step 8: Modify the Device's Configuration

The Menu tree allows access to all of the data exactly as described by the device manufacturer's DD. When you find elements of the field device's configuration you want to change, simply click and edit the data. Once you have changed the configuration to suit your needs, tap the "Commit" button to send the new data to the HART field device.

Step 9: Performing Maintenance and Testing the Field Device

Many devices perform Methods or Standard Operating Procedures (SOPs) that may need to be performed to ensure the device is in peak condition. These Methods may include calibrating the loop current, trimming the transducer values or performing some diagnostic test on the field device. Methods appear on the screen just like menus, but have a blue background. Click on the Method and it will start running in a new window. The Method will guide you through the process ensuring the procedure is completely and consistently performed. When the Method is complete the window will disappear.

Step 10: Exit

When you are through working on the field device simply exit DevCom. Once the App exits, you can then disconnect the HART interface hardware.



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1 INTRODUCTION

The Smart Device Communicator (DevCom) allows access to and management of a HART compatible field device's configuration and calibration. This manual provides the information about the Hardware setup, Communication with Smart devices, and functions of DevCom.

DevCom is unique in that it uses the DD of the connected device to determine what information to display, what variables are available for edit, and what procedures to follow for calibration, setup, and maintenance.

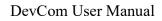
1.1 Acronyms and Definitions

Acronym	Definition
DD	Device Description File. This contains the device information.
DDL	Device Description Language
FCG	FieldComm Group, formerly the HART Communication Foundation (HCF)
DevCom	Smart Device Communicator
=	Window select button

1.2 Conventions Used in This Manual

Following formatting conventions are used in this guide:

Convention	Description
Words in bold type	Field names including buttons in the display, or important phrases.
\rightarrow Arrow	Window select button followed by the selection to make are separated by \rightarrow .
	For example, select $\implies \rightarrow$ New Device to connect to a new device.
UPPERCASE	Acronyms
UPPERCASE within angle brackets	Command keys For example, tap <back>.</back>
"Parenthesis"	Names of window elements, like "OK".





1.3 Document Organization

DevCom user manual is organized into the following sections:

Section 1	Describes the scope and objective of DevCom user manual along with the organization of the remaining part of the manual.
Section 2	Provides an overview of the DevCom application and its architecture.
Section 3	Provides the information pertaining to hardware and software requirements for the DevCom application.
Section 4	Provides the steps to install, activate, and uninstall the DevCom application.
Section 5	Provides the steps to start the DevCom application and connecting to field devices.
Section 6	This section explains different aspects of the DevCom application and its functionalities.

1.4 Getting Help

If you need help or encounter problems when using DevCom or this guide, please contact ProComSol, Ltd. See Appendix C for contact information. Please provide the following information.

Create a text description of the problem. If possible, provide the text in event sequence, which will enable the duplication of the problem. Provide information about the system. This information must include:

- DevCom version and License ID
- Mobile device information: make, model, and Android version
- What DD (Device Descriptor) is loaded for the HART device
- HART Device information: make, model, and device revision
- Point of contact: name, telephone number, and e-mail address



2 OVERVIEW OF DEVCOM

Field devices such as flow, pressure, level, temperature transmitters, and valve positioners provide the physical connection to the process. These devices allow the control system to monitor and manipulate process conditions. HART devices maintain a real-time database of process, configuration, identification, and diagnostic information. This information can be accessed using the HART Field Communications Protocol.

HART devices are capable of providing functions and features far beyond the basic task of providing a process input or accepting a control output to manipulate process conditions. Many HART compatible device manufactures create a DD (Device Description) describing all of these functions and features specific to that device. The DD also provides information essential to the successful configuration and calibration of the device.

DevCom uses these DD's to access the data stored in a device, providing full configuration and setup support for all registered HART DD's.

DevCom accesses and presents field device data based solely on its DD. No other files, information or custom drivers are required. DevCom is intended to monitor and configure a single device at a time, it is directly connected to the current loop of the particular device and:

- Provides user interface to configure the HART field device,
- Provides a means to configure and view all the parameters related to HART field device, and
- Provides an option to view the detailed status and diagnostic capability of the device.

DevCom allows viewing and modifying of field device parameters based on the DD. Using the device's DD, DevCom performs various tests to verify the proper operation of the HART device. DevCom runs as a standalone software application and must have a HART compatible modem attached to the system to interrogate the HART device.



3 SYSTEM REQUIREMENTS

The following minimum system requirements are recommended for operation of DevCom.

Mobile Device	Memory RAM: 1 GB Memory ROM: 2 GB Screen: 960x540 qHD
SD Card	Optional
HART Modem	ProComSol HM-BT-BAT-ER, HM-BLE, HM-USB-ISO, mobiLink, or equivalent
Bluetooth	Bluetooth 2.0 – HM-BT-BAT-ER Bluetooth 4.0 – HM-BLE
USB Port	HM-USB-ISO
Operating System	Android Jelly Bean (4.3)



4 DEVCOM INSTALLATION

4.1 Prerequisites

You need to be familiar with the basic functions of the following when installing DevCom:

- Android operating system
- HART communication interface
- HART field device

4.2 Installing the DevCom Application

4.2.1 DevCom Application

To install the DevCom application, perform the following steps:

Step	Action
1	Copy the file "com.procomsol.devcom.apk" to your device. It is recommended to put it in the "Download" folder.
2	On Android device, launch the "MyFiles" app or equivalent.
3	Navigate to the directory where you saved the file in Step 1.
4	Click on the file "com.procomsol.devcom.apk".
5	At the "Do you want to install this application?" select "Install".

4.2.2 Activating DevCom

DevCom must be activated for use after 10 days. The following procedure will activate the software (this only needs to occur one time):

Step	Action
1	Launch the DevCom App. The following Licensing Window is displayed after accepting the License Agreement:



Step	Action	
		박 🖬 🕷 📚 🔊 📶 🖬 4:57 AM
		Licensing
		Status: License expires in 10 days
		License ID: Password: Email: Order DevCom License
		Activate License Evaluation
2		license: Enter the provided License ID and your order. Also enter your Email address if you

	Password from your order. Also enter your Email address if you wish to receive update notifications. Then tap "Activate License". Once activated, this window will not appear during start up.
3	To proceed in Evaluation mode, tap "Evaluation". You can use the App for 10 days before activation is required.
4	If you need to purchase a license, tap "Order DevCom License" and you will be sent to the DevCom page on the ProComSol

4.2.3 Installing the DD Library

website.

The DD Library is required for App function. Perform the following to download the latest DD Library to your device:

Step	Action
1	The following Window is shown after the Licensing Window:



	Action	
		ψ 💼 🗟 🖬 📂 🔹 🕸 🕸 🕄 🗊 📶 💆 4:12 AM
		= DD Library
		DD Library Version: Missing
		DD Library Location: /storage/emulated/0/ProC
		DD Library Error
		DD Library is not available
		Ok
		De ciorary opeare Arandole
		2017-04 Install
		Library Contents Add New DD File
	Tap "Ok" to con	tinue.
2		ψ 💼 🚯 እጂ፥ ŝ ୁ 📶 🖸 11:46 PM
		≡ DD Library
		≡ DD Library
		DD Library DD Library Version: Missing
		≡ DD Library
		DD Library Version: Missing DD Library (starsag/gmulated/0/8rgC)
		DD Library DD Library Version: /storage/emulated/0/ProC
		DD Library DD Library Version: /storage/emulated/0/ProC
		DD Library Version: Missing DD Library Location: /storage/emulated/0/ProC Move to SD Card
		■ DD Library Version: Missing DD Library DD Library Location: /storage/emulated/0/ProC Move to SD Card DD Library Update Available
		DD Library Version: Missing DD Library Location: /storage/emulated/0/ProC Move to SD Card
		■ DD Library Version: Missing DD Library DD Library Location: /storage/emulated/0/ProC Move to SD Card DD Library Update Available
		■ DD Library Version: Missing DD Library DD Library Location: /storage/emulated/0/ProC Move to SD Card DD Library Update Available

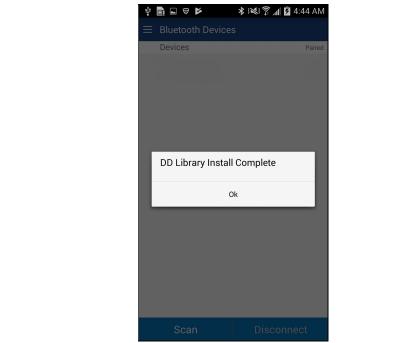
Tap "Install" to continue.

3 The following screen will appear. Note that the full DD Library download takes about 15 minutes. Do not close this screen!



Step	Action			
		Ý 💼	≵ ;≥\$ \$ ∭ 🖥 11:	49 PM
		\equiv DD Library		
		DD Library DD Library Location:	ry Version: Missing /storage/emulated/0/Prof Move to SD Card	с
		I	nstalling	
		Library Conte	ents Add New DD	File

4 The following screen will appear when the DD Library install is successfully completed:



4.2.4 Selecting a HART Modem

A HART Modem is required for communication to your HART device. The following procedure is used to select the modem (this only needs to occur one time):



Step	Action	
1	The following Wi	ndow is shown after the DD Library Window:
		 Image: Setup Wizard Select the Modem Type to Use Bluetooth HM-BT-BAT-ER viator BT mobiLink Bluetooth LE -HM-BLE
		- mobiLink
		USB - HM-USB-PWR - HM-USB-PWR
		TCP/IP
		Continue

- 2 Select the Modem Type you will use. Then tap "Continue".
- 3 If "Bluetooth" was selected, the next Window will show all available Bluetooth devices after "Scan" was tapped.

	ý 🖬 📑 💋	🖈 💐 🛜 📶 💆 5:28 AM
	\equiv Bluetooth Devices	;
	Device	Paired
	HART Modem 00:04:3E:08:BB:CD	
	JBETTS 00:02:72:1D:F4:21	
	MARKETING 00:02:72:15:46:FB	
	JADWIN7 4C:80:93:9E:F5:65	
	Scan	Disconnect
"Bluetooth L F"	was selected	the next Windo

4 If "Bluetooth LE" was selected, the next Window will show all available Bluetooth LE (Bluetooth Low Energy) devices after



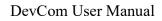
Step	Action			
	"Scan" was ta	apped.		
			¥ 🔌 🗟 100% 🛢 13:29	
		\equiv Bluetooth Devices		
		Devices	Battery Level	
		HART Modem BLE CC:78:AB:18:A3:82		
		Scan		
5	For all other o	cases, communicat	ions will begin imme	ediately.
6			o your HART Moder Window will not app	

4.3 Connecting to the HART Network

The DevCom application communicates with the HART Field Devices through a HART compatible communication interface (e.g., a "HART Modem"). Using this communication interface you will transmit real-time HART data between DevCom and the connected HART compatible field device.

There are a wide variety of HART compatible interfaces. Please follow the manufacturer's instruction for connecting your interface to the Mobile. This manual uses the HART modem manufactured by ProComSol, Ltd, called the HM-BT-BAT-ER. It uses the Bluetooth interface.

Turn the HM-BT-BAT-ER on. It is assumed you have already performed the Bluetooth pairing procedure. See the HM-BT-BAT-ER documentation for details. Using the clips on the wires from the HART modem, connect to the device across the 4-20ma signal. If a suitable load resistance is not available, a 250Ω resistor must be placed in series with the device power supply.





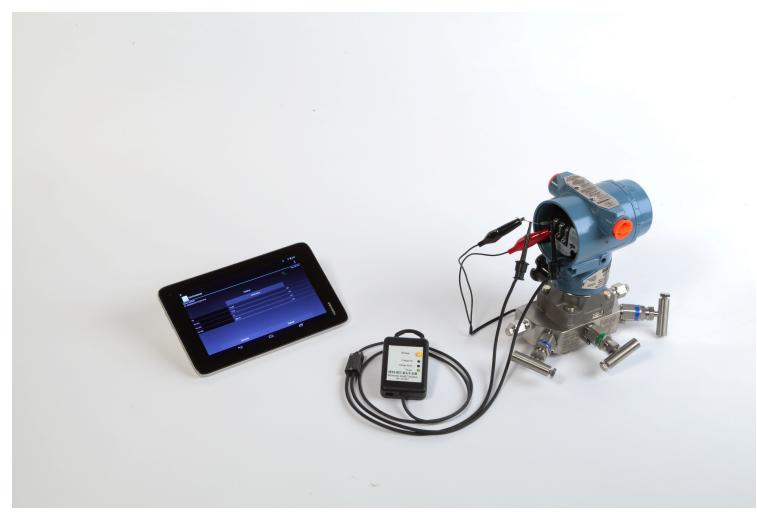


Figure 1 Typical DevCom Hardware Setup



4.4 Uninstalling the DevCom Application

To uninstall the DevCom application, perform the following steps on the Android Device:

Step	Action
1	Go to the Application Manager (or equivalent) screen.
2	Select "DevCom"
3	Select "Uninstall".
4	Select "OK"



5 USING DEVCOM

5.1 Starting DevCom

Establish the physical connection between the field device and the HART Modem. With the physical connection established, launch DevCom by tapping the DevCom icon on your device screen.

Step	Action			
1	Start the DevCom displayed:	App. The follo	wing application v	vindow is
		Ų ■ ■ *	💐 🛜 🖊 💆 12:16 PM	
		Device Explorer		
		Device Model: DD:	Tag: X Connecting X	
		Cancel	Commit	
	DevCom will ther	n automatically i	dentify the field de	evice and
	begin communica	ting with the fiel	d device.	

2 When the field device is successfully connected to DevCom, the Device Explorer window appears with the root menu of the device DD shown.



■ Device Explorer □□ Device Model: PR 5335 Tag: T-1102 DD: /00006d/00ef/0101.fm8 Connected
Online
Device setup
PV 23.29 degC
Electr 23.30 degC
PV A0 6.10 mA
PV % rnge 13.10 %

The DevCom windows shown in this document are only an example of what you may see when connected to your field device. What you will see is controlled by the DD and the device. The menus, data, status and configurations displayed are specified by the device's manufacturer in the DD itself.

3 Select the required menu to configure or review the field device's data.

5.2 Getting Familiarized with DevCom

5.2.1 The Device Explorer Window Fields

The DevCom Device Explorer window is designed to provide the operator with valuable information in order to make work quick and easy. Below is a typical Device Explorer window with each field described:



Ý 🖬 💼	* * *	1 7:08 AM
\equiv Device Ex	xplorer 📀	3 📼
Device Model: PR DD: /00006d/00e	f/0101.fm8 6) Tag: T-1102 ⑦ Connected ⑧
← 🧐	Online 💷	
	Device setup	(1)
PV 12	13 23.29	degC (14)
Electr	23.30	degC
PV AO	6.10	mA
PV % rnge	13.10	%
(15)	(16
Cance	el Cor	nmit



- 1 Window Navigation icon, aka "Hamburger" icon
- 2 Window name
- 3 Device Status Icon
- 4 Device model of connected HART device
- 5 Tag name of connected HART device
- 6 DD loaded for connected HART device
- 7 Modem status
- 8 Communication indication
- 9 Back softkey for menu navigation
- 10 Menu title for current menu
- 11 Sub menu
- 12 Label
- 13 Data
- 14 Units
- 15 Commit, save edit changes to connected HART device
- 16 Cancel, return edit changes to original value

5.2.2 Navigating the Window Menus using the \equiv icon (aka "Hamburger")

DevCom has several windows with specialized information. Tap the Hamburger icon and the following Window appears, details in Section 6.5: Note that the red icon indicates the active Window when the Hamburger icon was tapped. This helps the user return to the previous window.

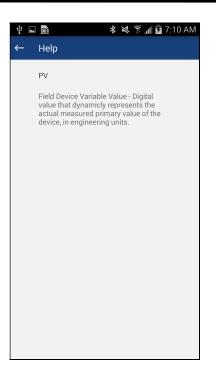


Menu	Explanation
DevCom	DevCom – App name
New Device	New Device - Connect to a new device or reconnect to the same device.
Device Explorer	Device Explorer – Main device window with device data
🔅 Settings	Settings – Launches Settings Window
Bluetooth Devices	Bluetooth Devices – Launches Bluetooth Selection Window. If using USB modem, then USB Window launched.
Document Device	Document Device – Launches the Document Device Window
🛃 Download Config	Download Config – Launches the Saved Configurations Window
ntext Calibration Check	Calibration Check - Launches the
늘 DD Library	Calibration Check Window
Licensing	DD Library – Launches the DD Library Window.
	Licensing – Launches the License Window.
i About	About – Shows copyright information, support information, and application Serial Number.
🗴 Exit	Exit - Exit DevCom.

5.2.3 Using the Help Menus

When you select a parameter label, a window will appear with information about the parameter. Below is an example:





5.2.4 Menu Color Scheme

DevCom application uses different colors to represent different elements of the application. The following table lists the colors and their meanings:

Color Example	Meaning
<menu name=""></menu>	Indicates a menu in the navigation tree
<label> <data> •</data></label>	Indicates an "Enumerated Variable" item (Note the triangle)
<label> <data></data></label>	Indicates a Read Only "Variable" item (Note the data background is gray)
<label> <data></data></label>	Indicates an Editable "Variable" item (Note the data background is white)
<method name=""></method>	Indicates a "Method" (Standard Operating Procedure) item
<edit display="" name=""></edit>	Indicates an "Edit Display" item



6 FUNCTIONS AND BASIC OPERATIONS

6.1 Overview

DevCom allows the user to monitor and configure a single device at a time in the field. Each device had a DD that determines what device information is present. A DD may contain any of the following parameters/elements:

<u>Variable</u>

A variable is defined as the data contained in the device (e.g. Device Firmware Version). There are three types of variables:

<u>Numeric</u> – Variable data consists of numbers <u>Text</u> – Variable data consists of text and/or numbers <u>Enumerated</u> – Variable data is from a list of valid data points.

The above variables are further definable as follows:

<u>Editable Variable</u> – It allows the operator to modify the value and download it to the device. <u>Non-Editable Variable</u> – It is a read-only data from the device.

Edit Display

This option is used to view a group of parameters. You can also modify a single parameter from this group, based on which other parameters of the device get altered.

For example, if the Engineering Unit of the device is modified, the corresponding Low Limits and High Limits change as per the Engineering Unit set.

Method / Standard Operating Procedure (SOP)

This option helps to perform various tests on the device for instance, Self Test and Loop Test. A Method or SOP is a series of steps that are executed in a sequence results in the completion of some device related tasks. When a method gets invoked, it gives various warning messages and options to the user, by which the user can thoroughly test the device. If a test is aborted by operator command at any stage of the sequence, the method invokes additional steps to bring the device back to its original state before the test.

6.2 Configuring Device Information

6.2.1 Overview

DevCom allows you to view and configure the field device parameters based on the device description (DD). The related variables are grouped under various menus of different levels as defined in the DD file. The following table describes the details about the device configuration:

Step	Action
1	Ensure that the application is running and communications have been established:



E Device Explorer Device Model: PR 5335 DD: /00006d/00ef/0101.fm8 Connected Online
DD: /00006d/00ef/0101.fm8 Connected *
Online
Device setup
PV 23.29 degC
Electr 23.30 degC
PV A0 6.10 mA
PV % rnge 13.10 %

2 There are three types of variables: Numeric, Text, and Enumerated. In turn these variables can be read/write and read only. Dynamic variables are also read only.
Following points describe how the device parameters represents their status when connected to DevCom: White Data Background: Modifiable Values
Gray Data Background: Read only Values
Data field with gray triangle: Enumerated data



Ý 🖬 📑	🛪 🕱 📶 💆 7:12 AM	
\equiv Device Explore	r 📼	
Device Model: PR 5335 DD: /00006d/00ef/0101.fr	Tag: T-1102 X n8 Connected X	
← Signa	l condition	
PV LRV	-180.0 degC	
PV URV	1372.0 degC	
PV unit	degC 🔹	
PV % rnge	13.11 %	
PV Damp	2.00 s	
Cancel	Commit	

4 The subsequent topics explain how to configure device parameters.



6.2.2 Variable Edit

To edit a parameter of the connected device, perform the following steps:

Step	Action				
1	Ensure that the a been established:		inning ar	nd comm	unications h
		ψ 🖬 🛄	ا ^{ار} اي الا	7:08 AM	
		Device Model: PR 5335 DD: /00006d/00ef/0101.fn	18	Tag: T-1102 🔊 Connected	
		C	nline		
		D	evice setup		
		PV	23.29	degC	
		Electr	23.30	degC	
		PV A0	6.10	mA	
		PV % rnge	13.10	%	
		Cancel	Cor	nmit	

2 Select the menu where the editable parameter is present as shown below. For this example we are editing PV Damp:



Ý 🖬 📑	* 📈 🄅	📶 😼 7:15 AM
\equiv Device	Explorer	
Device Model: DD: /00006d/0		Tag: T-1102 Connected \$
~	Basic setup	
Tag	T-1102	
	Range values	
	Sensor config	
PV Damp	2.00	s
Snsr s/n	C	I
Cano	cel Co	ommit

3 Select the variable data to edit it. The existing data will be highlighted and an appropriate soft keyboard will appear:



4 Make the changes to the parameter value, as required.



Step Action				
បំ			¥ ⋈ 🖗 새	1 🔁 7:18 AM
=	Device Ex	kplorer		
	evice Model: PF D: /00006d/00e			Tag: T-1102 🕇 Connected 🕇
+	_	Basic	setup	
Та	ag		T-1102	
		Rang	ge values	
		Sens	or config	
P	V Damp		1.0	s
	1	2	3	×
	4	5	6	Done
	7	8	9	
		0		

5 Use the Back key or "Done" button to remove the keyboard. Note that the changed variable data background is now Yellow and the "Commit" and "Cancel" buttons are also Yellow:

Tag T-110		
	2	
Range values		
Sensor config		
PV Damp 1.0	D s	
Snsr s/n	D	

6 Click on the "Commit" button to send the new value to the device. The buttons and data return to white when complete:



tep Action 🖞 🖬 🖿	* * *	🖥 7:21 AM
	e Explorer	
Device Model DD: /00006d	l: PR 5335 /00ef/0101.fm8	Tag: T-1102 🖈 Connected ≯
<i>←</i>	Basic setup	
Tag	T-1102	
	Range values	
	Sensor config	
PV Damp	1.00	S
Snsr s/n	0]
Car	ncel Con	nmit

7 For Enumerated variables, the process is very similar. Start by selecting the menu where the desired parameter is located:

÷	Signal condi	tion	
PV LRV		180.0	degC
PV URV	1	372.0	degC
PV unit		degC	•
PV % rnge		13.11	%
PV Damp		2.00	s

8 Select the variable data to edit it. A list will appear with the valid values to use:



Ý 🖬 📑		🕻 📕 11:30 AM
\equiv Device B	Explorer	
Device Model: F DD: /00006d/00		Tag: T-1102 Connected 🔊
	PV unit	
~	inH20	
PV LR\	inHg	gC
PV UR'	ftH20	gC
FV ON	mmH20	yc
PV uni	mmHg	
PV % ri	psi	
PV Dar	bar	
	mbar	
	g/Sqcm	
	ka/Saom	
	Cancel	
Canc		Commit

- 9 Select the value you wish to use.
- 10 Once selected, the list will disappear and the new value will be inserted into the data field. Note that the changed variable background is now Yellow and the "Commit" and "Cancel" buttons are also Yellow:

Ŷ 🖿 💼	;	* * 🔋 🖊	🖻 11:32 AM
\equiv Device	Explorer		
Device Model DD: /00006d/	PR 5335 00ef/0101.fm8		Tag: T-1102 Connected *
\leftarrow	Signal co	ondition	
PV LRV		-180.0	degC
PV URV		1372.0	degC
PV unit		degF	-
PV % rnge		13.04	%
PV Damp		1.00	s
Can	cel	Cor	nmit

11 Click on the "Commit" button to send the new value to the



Step	Action			
	device:			
		Ý 🖬 💼	* * ?.	💈 11:33 AM
		\equiv Device E	Explorer	
		Device Model: F DD: /00006d/00		Tag: T-1102 Connected 🕈
		<i>←</i>	Signal condition	
		PV LRV	-292.0	degF
		PV URV	2501.6	degF
		PV unit	degF	•
		PV % rnge	13.05	%
		PV Damp	1.00	s
		Canc	el Cor	nmit

6.2.3 Edit Display

The Edit Display is a variation on the Variable edit. An additional window helps the user view a group of parameters based on the DD. You can also modify a single parameter from this group. Parameters linked to the edited field will be updated automatically

To view and configure these variables, perform the following steps:

Step	Action
1	Ensure that the application is running and communications have been established:



	* * * *	7:08 AM
\equiv Device Explorer		÷
Device Model: PR 5335 DD: /00006d/00ef/0101.fm8		Tag: T-1102 ≱ Connected
Onli	ne	
Devic	ce setup	
PV	23.29	degC
Electr	23.30	degC
PV AO	6.10	mA
PV % rnge	13.10	%

2 Select the menu where the editable parameter is present as shown below. For this example we want to edit URV from the Range Values Edit Display:

\leftarrow	Basic setup	
Тад	T-1102	
	Range values	
	Sensor config	
PV Damp	2.00	s
Snsr s/n	0	

3 Once selected, the Edit Display looks like a regular menu as seen here:



Ý 🖬 🗐	* * * *	💈 11:37 AM	
\equiv Device Ex	xplorer		
Device Model: PF DD: /00006d/00e	1 5335 f/0101.fm8	Tag: T-1102 Connected 🕇	
←	Range values		
LSL	-292.0	degF	
USL	2501.6	degF	
PV LRV	-292.0	degF	
PV URV	2501.6	degF	
PV unit	degF	•	

4 Select the parameter you wish to edit from within the Edit Display box. The following dialog box appears on the screen:

DD: /00006d/	PR 5335 Tag: T-110 00ef/0101.fm8 Connecte)2 . ed '
←	Edit Together	
PV LRV	-292.0 degF	
PV URV	2501.6 degF	

- 5 Make the change to the value, as required.
- 6 Click on the "Commit" button to send the new value to the device.



6.2.4 Executing Methods or Standard Operating Procedures

Methods are defined in the DD file for the device that DevCom is connected to. You can select the Method and execute it for calibrating the device, trouble shooting, etc. Method execution leads you through a number of steps, like in a wizard.

A Few examples of methods include,

Set high and low range calibration points Calibrate the device Run the advanced diagnostic test procedure Execute tests to gather information on device operation.

To execute a Method, perform the following steps:

Action				
		s running a	nd comn	nunications have
	Ý 🖬 📑	* * *	👖 💆 7:08 AM	
	\equiv Device Exp	olorer	÷	
			Tag: T-1102 🔊 Connected	
		Online		
		Device setup		
	PV	23.29	degC	
	Electr	23.30	degC	
	PV A0	6.10	mA	
	PV % rnge	13.10	%	
	Cancel	Со	mmit	
	Ensure that the a	Ensure that the application is been established:	Ensure that the application is running a been established:	Ensure that the application is running and commutation been established:

2 Select the menu where the method is present and select the desired Method:



Step Action		
	v ■ * × §	11:41 AM
	\equiv Device Explorer	
	Device Model: PR 5335 DD: /00006d/00ef/0101.fm8	Tag: T-1102 X Connected
	← Diag/Service	
	Status	
	Loop test	
	Calibration	
	Write protection	on
	Read max/min	log
	Reset max/min	log
	Cancel	Commit

3 Below is an example of a Method window:

\$ 🖬 📑	* * *	🕻 🔎 🖬 11:44 AM
	Method	
	Loop test	
WARN-L	oop should be remo automatic control	oved from
	K button to continuu ion or Abort button method execution.	to abort
Help	Abort	Ok

4 Click "OK" to move to the next dialog in the Method sequence. Some methods require more user input such as selecting an enumerated value as below:



		Ý 🖬 🖩	* * *	🖌 😰 11:45 AM
			Method	
			Loop test	
			4mA	
			20mA	
			Other	
			End	
			Cancel	
		Help	Abort	Ok
5	Click "Abort"	to cancel the	e Method ex	xecution.
5				hat step of the Method. the device DD.

6.3 Calibrating HART Field Devices

Calibration of field devices and loop test are achieved by executing the Methods or Standard Operating Procedures that are specific to device. Methods are defined based on the test parameters specific to the device, providing information for the calibration of that device.

See the previous section for Method execution.

6.4 Viewing the Device Status

DevCom provides the user with the ability to monitor the device specific status of the device.

To view the device and status, perform the following steps:

Step	Action
1	Ensure that the application is running and communications have been established:



Ý 🖬 🖬	****	1 🔽 7:08 AM	
= Devic	e Explorer	e	
Device Mode DD: /00006d	l: PR 5335 l/00ef/0101.fm8	Tag: T-1102 Connected ≯	
	Online		
	Device setup		
PV	23.29	degC	
Electr	23.30	degC	
PV AO	6.10	mA	
PV % rnge	13.10	%	
PV % rnge	13.10	%	
Cal	ncel Co		

2 Select the Device Status icon. The following window is displayed:



The status byte is shown for each status point.

3 To see more details on which status point is active, select the status data. Here is a sample:



	Ý 🖬 🛄	* * ?	🖊 🖻 11:49 AM
	\equiv Device Ex	olorer	
	Device Model: PR DD: /00006d/00ef/		Tag: T-1102 Connected
		Sensor errors	
	←	sensor1	
	Sensor	sensor2	
	ADC er	CJC/electr	_
	Misc. e		
		Ok	
	Cancel		Commit
	Cancer		Johnnit
Click the Ba	ack hardware bu	tton to clo	se the Device Status
window. O	r you can tap the	$e \leftarrow \text{soft } k$	key.

6.5 Window Detailed Description

6.5.1 Settings

There are several Settings that may need to be changed by the user to perform a desired activity. Below is a description of what Settings are available:

Step	Action
1	Ensure that the application is running. Communications do NOT need to have been established.
2	Select \implies Settings from the main window. The Settings window is displayed:



Step Action		
	Ý 🖬 🖬 🕰	* 🔃 💐 🛜 ₊╢ 94% 🗳 2:01 PM
	\equiv Settings	
	Default Modem:	HART Modem 00:04:3D:20:11:66
		Reset
	HART Master:	 □ Primary Master ✓ Secondary Master
	Polling Address:	Polling Address 0
	DD Language:	System Language
	Cloud	Disabled
		Configure
	Modem Type	Bluetooth
	HART-IP	Configure
	s	ave Settings
Each Setting	is explained belo	OW.

6.5.1.1 Default Modem

This option allows the user to disconnect the modem. Tap "Reset" to clear the modem from App memory.

6.5.1.2 HART Master

This option allows the user to select Primary Master or Secondary Master for Multi-master systems.

Step	Action
1	Select desired HART Master.
2	Tap "Save Settings" If a new HART Master was selected the following message will be shown:



Step A	Action		
		ψ ⊑ ិ 🕰 🔸	฿ 🕅 💐 🛜 "∎ 93% 🗖 2:08 PM
		\equiv Settings	
		Default Modem:	HART Modem 00:04:3D:20:11:66
			Reset
		HART Master:	Primary Master
		Settings	-
		Settings Save reconnect to	ed, will now device
		- C	Ok
			Configure
		Modem Type	Bluetooth
		HART-IP	Configure
		Sa	ive Settings
3 7	Tap "OK" to retur	rn to the Dev	vice Explorer window.

6.5.1.3 Polling Address

This option allows the user to set the address to look for devices on Multi-drop networks. The default is address 0.

Step	Action
1	Tap the triangle next to the current Polling Address selection. A drop down list will appear with all the valid Polling Addresses. You may need to scroll to view the address you want.
2	Tap the desired Polling Address.
3	Tap "Save Settings". If a new Polling Address was selected the following message will be shown:



🜵 🖬 📠 🔺 🖹 💐 🍞 📶 93% 💆 2:08 PM
≡ Settings
Default Modem: HART Modem 00:04:3D:20:11:66
Reset
HART Master: Primary Master
Settings
Settings Saved, will now reconnect to device
Ok
Configure
Modem Type Bluetooth
HART-IP Configure
Save Settings
Tap "Ok" to

6.5.1.4 DD Language

This option allows the user to select which language the DD data will be presented. Note that all DD's do not have each of these languages. In this case, English will be used. Also note that only the DD data is affected (currently), DevCom specific items will always be English.

Step	Action
1	Tap the triangle next to the current DD Language. A drop down list will appear with all the valid DD Languages. You may need to scroll to view the language you want.
2	Tap the desired DD Language.
3	Tap "Save Settings". If a new DD Language was selected the following message will be shown:



Ý 🖬 🖻 🕰	* 🔃 💐 🛜 📶 93% 🛱 2:08 PM
\equiv Settings	
Default Modem:	HART Modem 00:04:3D:20:11:66
HART Master:	Reset
	ved, will now o device
- C	Ok
	Configure
Modem Type	Bluetooth
HART-IP	Configure
	Save Settings

4 Tap "Ok" to return to the Device Explorer window.

6.5.1.5 Cloud

This option allows the user to enable or disable the cloud features for this device. See Section 6.9 for Cloud details.

Step	Action
1	Tap the triangle next to the current Cloud setting. A drop down list will appear with the valid options.
2	Tap the desired selection. If "Enabled", then the Cloud Configure button becomes active. Tap this button to configure the Cloud User. See Section 6.9.1.
3	Note that it is not necessary to tap "Save Settings" for the Cloud setting.

6.5.1.6 Modem Type

This option allows the user to select which modem to use to connect to the HART Network. See Section 6.5.2.1 for Bluetooth, Section 6.5.2.2 for Bluetooth LE, Section 6.5.2.3 for USB, or Section 5.8 for HART-IP and the TCP/IP modem type.

Step	Action
1	Tap the triangle next to the current Modem. A drop down list will appear with all the valid Modem types.



Step Action	
	ψ ⊑ 🖻 Δ 🔹 🕅 🖄 🛱 📶 93% 🖾 2:15 PM Ξ Settings
	Default Modem: HART Modem 00:04:3D:20:11:66
	HART M. HART M. Bluetooth LE TCP/IP USB Polling A DD Lang Cloud Cloud
	Modem Type Bluetooth
	HART-IP Configure
	Save Settings

- 2 Tap the desired Modem Type. Note that some Android devices may not support Bluetooth LE. An error message will appear if this modem type is not supported. Also note that if TCP/IP selected, the HART-IP Configure button becomes active. Tap this button to configure HART-IP parameters. See Section 6.8.1.
- 3 Tap "Save Settings". If a new Modem Type was selected the following message will be shown:



Step Action	Ý 🖬 🖬 🕰	* 🔃 💐 🍞 📶 93% 🗳 2:08 PM
	\equiv Settings	
	Default Modem:	HART Modem 00:04:3D:20:11:66
		Reset
	HART Master:	Primary Master
	Settings	
	Settings Sa reconnect t	ved, will now o device
	- c	Ok
		Configure
	Modem Type	Bluetooth
	HART-IP	Configure
		Save Settings

6.5.1.7 HART-IP Setup

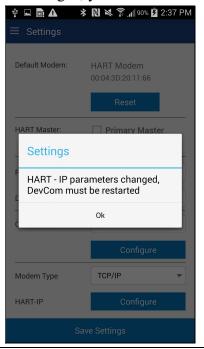
This option allows the user to select parameters for connecting to HART-IP supported device networks. See section 5.8 for HART-IP and the TCP/IP modem type.

Step	Action
1	Tap HART-IP "Configure" button to bring up the HART-IP Setup window.

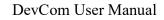


Step Action		
	Ý 🖬 🖻 🕰	⊁ 🔃 🖄 😭 📶 ୭۱% 🗖 2:29 PM
	≡ HART-I	P Setup
	IP Address	174.77.73.234
	Port	5094
	HART Address	0
	Save Set	ttings Back

- 2 Enter the required information to connect to your WirelessHART Gateway or HART-IP Multiplexer.
- 3 Tap "Back" to return to the Settings Window. You must Tap "Save Settings" on this window to save the data. If the HART-IP parameters where changed, you will receive this message:



4 Tap "Ok" and the DevCom App will restart with the new





Step	Action
	HART-IP settings.

6.5.2 Bluetooth/Bluetooth LE/USB Devices

This window allows the user to view the current modem or to change what modem to use for communications. Each Window type will be discussed

6.5.2.1 Bluetooth

Step	Action
1	The Window will show all available Bluetooth devices with the current selected modem highlighted and/or marked with the Bluetooth icon.
	1t 🗆 📾 🔹 🛠 😒 🗇 d 🖪 5-51 AM

ψ	🗆 💼 🖻	*	Å,	ا لہ €	۶ ۶	51 AI	M
≡	Bluetooth Devices						
	Device					Paire	d
*	HART Modem 00:04:3E:08:BB:CD						
	JBETTS 00:02:72:1D:F4:21						
	MARKETING 00:02:72:15:46:FB						
	JADWIN7 4C:80:93:9E:F5:65						
	Scan		Di	scor	nne	ct	

- 2 Tapping the current HART Modem will restart the connection.
- 3 Tapping "Scan" will look for nearby Bluetooth devices.
- 4 Tapping "Disconnect" will remove the connection to the current HART Modem.

6.5.2.2 Bluetooth LE (Bluetooth Low Energy)

Step Action

1 The Window will show all available Bluetooth LE devices with the current selected modem highlighted and/or marked with the Bluetooth icon.



Step	Action			
			র ঝ জি 100% ∎ 13:29	
		Bluetooth Devices	Battery Level	
		DEVICES	battery Level	
		HART Modem BLE CC:78:AB:18:A3:82		
		Scan	Disconnect	
2	Tapping the cu	rrent HART Mod	lem will restart the conne	ction.
3	Tapping "Scan	" will look for ne	arby Bluetooth devices.	
4	Tapping "Disc HART Modem		ove the connection to the	current

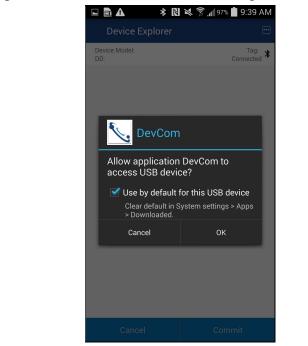
6.5.2.3 USB

Step	Action
1	The Window will show the USB device with the current selected modem highlighted and/or marked with the USB icon.
	modern nignignied and/or marked with the USB icon.



Step	Action		
		 ■ ▲ * N ≤ ? 97% ■ 9:40 AM ■ USB Devices Devices 	
		HM-USB-ISO	
		Scan	

- 2 Tapping the current USB Modem will restart the connection.
- 3 When the USB modem is first accessed by DevCom, you will be prompted to allow the USB connection. Tap "Ok".





6.5.3 Document Device

HART Device configurations can be saved to memory as a comma delimited text file and formatted PDF file to document the device.

To save device configurations to disk, perform the following steps:

	been established:		* * *	7:08 AM	
		🜵 🗖 🖻 🗮 🗮 🖿		7:08 AM	
		Device Model: PR 5335 DD: /00006d/00ef/0101.f		Tag: T-1102 Connected ≯	
		(Dnline		
			evice setup		
		PV	23.29	degC	
		Electr	23.30	degC	
		PV AO	6.10	mA	
		PV % rnge	13.10	%	
		Cancel	Cor	nmit	

² Select \Longrightarrow **Document Device** from the main window. The Document Device window is displayed:



Step	Action
	ψ □ ★ ≤ ■ Document Device
	File Location: /ProComSol/T-1102_1106
	Technician:
	Notes:
	Header:
	Footer:
	Save Configuration
3	The default directory is \ProComSol. The default file name is Tag_Date_Time. The filename can be changed by the user. Edit the directory and filename as needed.
4	Enter Notes in the Notes field if desired. Enter Technician name in the Technician field if desired.
5	Enter Header and Footer information for the PDF file if desired.

6	Tap the "Save Configuration" button to save device
	configuration to text file and pdf file.

7 When complete, the pdf file will be displayed. You may need to select which App you want to use to display the file.

6.5.4 Download Config

The saved HART Device configurations can be viewed and even downloaded to other devices. If using Cloud functionality, also see Section 6.9.5.

To view saved device configurations, perform the following steps:

Step	Action
1	Select \implies Download Config from the main window. The Saved Configurations window is displayed:



Step	Action					
		∲ ⊾ ₿ i		. 🛜 , 🛛 85% 🗾 4	10 PM	
			d Configuration			
		N Tag	Model	Date	Loc	
		00 TEST	EJA	2018-06-21		
		01 TESTPR	PR 5437/6437	2020-02-05		
		Ma	nage	Browse		
	_					
	The Licon me	ans the c	configurat	ion file i	s stored local	ly on the
	device.					
2	The saved config	puration	s are show	n in the	order they we	ere
-	created. You ca					
<u></u>						
3	Tap a configurat				-	
	configuration is displayed:	lapped,	the Config	guration	Jetan windo	w IS



÷ 🗖	ا الله الله الله الله الله الله الله ال
≡ Con	figuration Detail
← Cont	figuration 1: T-1102 (2016-08-10)
Tag:	T-1102
Long Tag	j: AOG 2015
Device:	PR 5335
File Nam	e: /storage/emulated/0/ProComS
Date:	2016-08-10
Notes:	
	View Write

6.5.4.1 View Saved Configuration

Step	Action
1	From the Configuration Detail window, tap "View".
2	The PDF file for the saved configuration is shown using the Android device PDF viewer:



	ψ. Ε	* 12	🗊 📶 💆 4:11 AM
	← 🚥 T-11	02_201 🤇	२ 🛕 :
		Device Configuration File, Rev 2.0	
	File: /storage/emulated/UProCom Tag: T-1102 LongTagNtg, AOG 2015 Model: PR 5335 DD: /00066/004/101.1m8 Date (sysy-mm-dd): 2016-08-10 Time (trum:sc): 06:29:13 AM Tech: Notes:	SoUT-1102_20160610_062911	
	Yunuba Yunuba Yunu Yunu Yunu A Chen Yunu Yunu Yunu Yunu Yunu Yunu Yunu Yun	Value 4eg2 4eg2 16 abo 16 abo 17.9 400 17.9 400 17.9 400 17.9 400 17.9 400 17.9 400 17.9 400 19.0	Units dago ny dago sago sago sago dago dago mA mA mA mA
			Page 1
		Device Configuration File, Rev 2.0	
	Variable Deri id Poil lackfr Tag Message Descriptor Date	Value 1106744 0 T-1102 AOG 2015 ARG 05/17/2015	Units
Tap the "Back"	Tag Message Descriptor Date	T-1102 AOG 2015 ARG 05/17/2015	

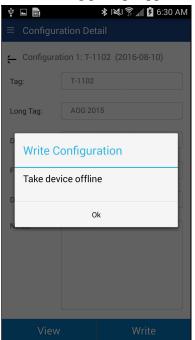
6.5.4.2 Configuration Write

Step	Action
1	Ensure that the application is running and communications have been established.
2	From the Configuration Detail window, tap "Write". The following Prompt is displayed:



Step	Action						
			Configurat		💐 🛜 📶 💆 6:30	AM	
		÷	. Configuratio	on 1: T-1102	(2016-08-10)		
		Та	ag:	T-1102			
		Lo	ong Tag:	AOG 2015			
		D	Write Co	onfiguratio	'n		
		F	Write Cont	figuration?			
		N	No		Yes		

- 3 Tap "Yes" to continue or No to go back to the Configuration Detail window.
- 4 If "Yes", tapped, the following prompt appears:



This alerts the user that a configuration change can upset the process and the device should not be connected to the process.

5 Tap "Ok" when device is not connected to the process.



Step	Action				
6	When the configuration write is complete, the following promp will be displayed:				
	Ŷ 🖬 🖩	ا¥ا 🗊 🖌 🚺 6:30 AM			
	\equiv Device Explorer				
	Device Model: PR 5335 DD: /00006d/00ef/0101.fm8	Tag: T-1102 * Connected			
	Onlin	e			
	Device	setup			
	PV	150.20 degC			

Download Successful

Ok

-17.59

Also note that the connection to the device has been reinitialized in order to refresh the data in the App memory.

6.5.4.3 Configuration Browse

This function allows the user to bring configurations saved from another source into their device. The other source can be other DevComDroid users or even DevCom2000 users.

Step	Action
1	Copy the zzz.pdf, zzz.dc, and zzz.txt (where zzz is the configuration root file name) files to the Android device. The recommended directory is the /Download directory
2	Select \implies Download Config from the main window. The Saved Configurations window is displayed:



Step	Action				
			▲ * ℕ ≈		10 PM
		≡ Save	ed Configuration	S	
		N Tag	Model	Date	Loc
		00 TEST	EJA	2018-06-21	
		01 TESTPF	PR 5437/6437	2020-02-05	
		IVI	anage	Browse	
3	Tap "Browse".		owse windo	ow is dis	
3	Tap "Browse".	The Bro	owse windo		
3	Tap "Browse".	The Bro	owse windo	ow is dis	
3	Tap "Browse".	The Brov ♥♥■ ≡ Brov	owse windo	ow is dis	1:42 AM
	Tap "Browse".	The Bro Pa	owse windo • • • * vse	ow is dis	:42 AM
	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
3	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
3	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
3	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
3	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
3	Tap "Browse".	The Bro Pa	owse windo • • • * vse th: /storage/emula	ow is dis	:42 AM
3	Tap "Browse".	The Brov ≡ Brov ← Pa ■	owse windo • • • * vse th: /storage/emula	ow is dis	t <mark>:42 AM</mark>

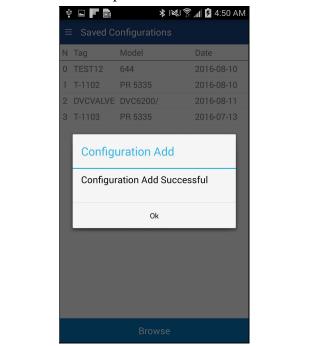
This window will just show the .pdf files. You can navigate to other directories using the Back key.

4 Select the desired configuration to add to the device. Once selected the Add Selected button becomes active:



Step Action	
	♥ ¥ 🖬 F 🗟 🕸 🕸 💱 🛣 🛱 4:45 AM
	≡ Browse
	- Path: /storage/emulated/0/Download
	T-1103 _20160713_103416.pdf
	Cancel Add Selected

5 Tap "Add Selected", and the following prompt appears when the Configuration Add is complete:



6.5.5 Calibration Check (Cal Check)

Calibration Check is feature that with an external calibrator, turns the DevCom App into a documenting Calibrator. It is a simple check to see if the HART device measurement results match the input value. The user picks the



number of points to check between the LRV (Lower Range Value) and the URV (Upper Range Value). The results are stored for later analysis.

Step	Action
1	Select = → Calibration Check from the main window. The list of performed Cal Checks is displayed:
	N Tag Model Date As?
	0 T-2001 248 Temp 2020-02-06 Found
	New Calibration Check
2	From here you can view previous Calibration Checks or create a

new one. Tap "New Calibration Check" to start a new one.



Step	Action	
	Ý 🖬 💔 🖻 🕰	
	😑 Define Ca	libration Check
	File Location:	/ProComSol/T-2001_2020020€
	Technician:	
	Notes:	
	LRV:	-50.00 degF
	URV:	122.00 degF
	# of Points	3
		Start Cal Check
3	•	oComSol. The default file name is ame can be changed by the user. Edit as needed.
4	•	eld if desired. Enter Technician name
5	URV and LRV are read fro Read only.	m the connected device. These are
6		mber of calibration check points you and including) the LRV and URV
7	Tap "Start Cal Check" to be	egin.

8 The Cal Check now steps through each point telling the user what value to apply to the HART device using an external calibrator.



Step Action		
	Ψ ⊑\$ Δ * N ≈ ?	94% 🗗 2:06 PM
	\equiv Calibration Check	
	Device Model: 248 Temp DD: /000026/003b/0201.fm8	Tag: T-2001 Connected
	Point 1 of 3	3
	Apply -50.00 d	legF
	PV = 75.38 de	
	AO = 15.66 n	nA
	Quit	Save

- 9 Tap "Save" to move to the next calibration point. Apply the new input value and keep repeating until all points are saved.
- 10 After the last point is saved, the user is asked if this is an "As Found" or an "As Left" calibration check.



Tap the appropriate response and the Cal Check is Done.

11 To view the results, tap the desired Cal Check record in the

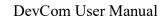


Step	Action					
	Calibration Ch	eck windo	w.			
		Ý 🖬 😽 🛙	∆ * N	🖄 🛜 📶 94% 🖥	2:11 PM	
			ation Check			
		N Tag	Model	Date	As?	
		0 T-2001	248 Temp	2020-02-06	Found	
			New Calibra	tion Check		

12 A Calibration Check Detail window is shown.

	on Check Detail
	n Check 0: T-2001 (2020-02-06)
As	Found
Tag:	T-2001
Long Tag:	TEST 7
5 5	
Device:	248 Temp
File Name:	/storage/emulated/0/ProComSol/
Date:	2020-02-06
Notes:	
	View

13 Tap "View" to see the Cal Check Results.





Step Action					
	₽		№ 🖄 🔊 🛯	1% 💆 2:15 PM	
	≡ c	alibration Ch	eck Results		
	Point	Expected	Read	Error	
	PV				
	1 2 3	-50.00 degF 36.00 degF 122.00 degF	77.04 degF 77.10 degF 77.13 degF	73.86% 23.90% 26.09%	
	AO 1 2 3	4.000 mA 12.000 mA 20.000 mA	15.82 mA 15.82 mA 15.83 mA	73.88% 23.88% 26.06%	
			Back		
Note that Error is	s % o	f scale.			

6.5.6 DD Library

This window allows the user to move the DD Library to the SD Card (if available), view the library contents, and even add new DD files to the library.

6.5.5.1 Move DD Library

Step	Action
1	Ensure that the application is running. Communications do NOT need to have been established.
2	Select \implies > DD Library . The DD Library Window is displayed:

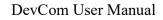


Step	Action				
		Ý 🖬 🖬 🕰		🕈 📶 79% 🗾 4:42 PN	Λ
		\equiv DD Library	'		
		DD Libra	ary Version	: 2019-03	
		DD Library Location:	/storage/em	ulated/0/ProCom	
			Move	to SD Card	
		DD L	ibrary Up t	o Date	
		Library Conte	ents _/	dd New DD File	

3 Tap "Move to SD Card" to move the library from the main memory to the SD Card. This button will be shown if an SD Card is available.

6.5.5.2 View DD Library

Step	Action
1	Ensure that the application is running. Communications do NOT need to have been established.
2	Select $\implies \rightarrow$ DD Library. The DD Library Window is displayed:





Step	Action
	ψ ψ □ DD Library
	DD Library Version: 2015-04
	DD Library Location: /storage/emulated/0/ProC Set New Location
	Library Contents Add New DD File
3	Tap "Library Contents" The following Window is displayed:
	ψ □ ψ □
	/storage/emulated/0/ProComSol/Library
	ABB, 000012
	ABB, 000016
	ABB, 00001a
	ACCUTECH, 00005e
	Actaris Neptune, 000028
	Action Instruments, 000089
	AGAR, 0000af
	Amer. Level Instr., 0000b2

Ametek, 000003

The list of manufacturers is shown in alphabetic order.

Analytical Technology Inc., 00009f

Add New DD File

Select a manufacture and the list of devices for that manufacturer

4

are displayed:



Step Action		
	ψ ■ ■ ●	
	 ✓ Ametek, 000003 MEWTHERMOX Rev: 1, DD: 000003\0004\01\01 NEWTHERMOX Rev: 2, DD: 000003\0004\02\01 NEWTHERMOX Rev: 3, DD: 000003\0004\03\01 	
	Add New DD File	

6.5.5.3 Add File to DD Library

Step	Action
1	Ensure that the application is running. Communications do NOT need to have been established.
2	Select $\implies \rightarrow$ DD Library. The DD Library Window is displayed:



Step Action	
	ψ 🖬 🖬 🛦 🛛 🕸 🛜 ୷∥ 79% 🖬 4:42 PM
	≡ DD Library
	DD Library Version: 2019-03
	Location:
	Move to SD Card
	DD Library Up to Date
	Library Contents Add New DD File

3 Tap "Add New DD File" The following file selection Window is displayed:



Use the <- key to navigate the device file structure until you find the file you would like to add.

4 Once the desired file is found, select it to activate the "Add Selected" Button.



Step Action	
	박 🖬 💼 👛 🔹 📚 🛜 개 🖸 5:26 AM
	\equiv DD File Select
	Path: /storage/emulated/0/Download
	📄 0101.fm8
	Cancel Add Selected
Tap "Add Sel	ected" to add the file to the DD Library.

6.5.7 Licensing

The user may need to review license status to get the number of days left in the evaluation for example. This window shows License details.

Step	Action
1	Ensure that the application is running. Communications do NOT need to have been established.
2	Select \implies \rightarrow Licensing. The Licensing Window is displayed:



Step Action	
	ψ 🖬 🖻 🛛 🔻 💐 🋜 📶 💆 6:11 AM
	≡ Licensing
	Status: Licensed Registered To: yourname@yourcompany License ID: 61741879
	License Check-In
This image she	ows an Activated license.

This image shows an Activated license.

3 Tap the "License Check-In" to send the license back to our server. It can then be used on another Android device. This makes sharing licenses easy and convenient.

6.5.8 About

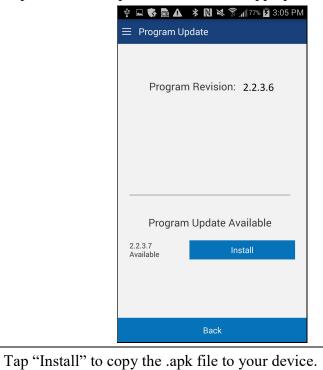
This window summarizes revision status and provides support contact information for the DevCom App:

Step	Action
1	Ensure that the application is running. Communications do NOT need to have been established.
2	Select \implies About from the main window. The About window is displayed:



Step Action		
	Ψ 🕏 ⊑ 🖬 🔺 🕷	💐 🗊 📶 76% 🗗 2:54 PM
	\equiv About	
	Dev	Com
	Program Rev	ision: 2.2.3.8
	DD Library Ve	sion: 2019-03
	Copyright © 2016-2	019 ProComSol, Ltd
	This is a product of Pr contains FCG SDC-62 SDC-625 technology is FieldComm Group (FC Blvd., Suite 1-120, Aus may not be adopted, c modified, licensed, sul resold other than unde FCG.	i technology. The FCG cowned by the G), 9430 Research tin, TX 78759, and opied, reproduced, licensed, sold, or
	Phone: 216	5.221.1550
	web: www.pr	ocomsol.com
	Send Email to Tech Support	Check for Updates

- 3 Tap "Send email to Tech Support" to bring up your Email App which you can then send to ProComSol to get help for your issue.
- 4 Tap "Check for Updates" to see if an App update is available.



5



6.6 PC Interface to Mobile Device

The Windows Explorer program is a convenient way to copy configuration files back to the PC for archiving and storage. The Android device looks like a disk to the Windows file system. Below is an example screen shot:

ganize 🔻				
🛫 Quality (\\PCSSERVER1) (Q:)	▲ Name	Туре	Size	Modified
MAINDATA (\\PCSSERVER1) (Y:)	T-104Apdfinput.txt	Text Document	2 KB	9/8/2014 10:18 PM
🙀 Company (\\PCSSERVER1) (Z:)	T-104A.txt	Text Document	2 KB	9/8/2014 10:18 PM
🎯 Roxio Burn Disc Viewer	T-104A.pdf	Adobe Acrobat Document	5 KB	9/8/2014 10:18 PM
SAMSUNG-SGH-I537	DU V D D.pdf	Adobe Acrobat Document	8 KB	8/29/2014 11:09 AM
and Card	DU V D Dpdfinput.txt	Text Document	5 KB	8/29/2014 11:09 AIV
in Phone	DU V D D.txt	Text Document	4 KB	8/29/2014 11:09 AM
鷆 Alarms	DUger.pdf	Adobe Acrobat Document	4 KB	8/29/2014 11:09 Alv 8/29/2014 9:35 AM
🍌 AllsharePlayLog	DUgerpdfinput.txt	Text Document	5 KB	8/29/2014 9:35 AM
퉬 Android	DUger.bt	Text Document	4 KB	8/29/2014 9:35 AM
Jacob Application	DUtest.pdf	Adobe Acrobat Document	4 KB	8/29/2014 9:35 AM
퉬 ATT Locker	DUtestpdfinput.txt	Text Document	4 KB	8/29/2014 9:28 AM
퉬 DCIM	DUtest.bd	Text Document	4 KB	8/29/2014 9:28 AM
퉬 Documents	Library	File folder	4 ND	8/5/2014 9:28 AM 8/5/2014 4:25 PM
퉬 Download	Ju Library	File folder		8/5/2014 4:25 PIVI
🎍 metaio				
J Movies				
Music				
Notifications				
Pictures				
Playlists				
Podcasts				
ProComSol				
Library				
🛺 Ringtones				
Samsung				

The default location for the saved configuration files is the directory "\ProComSol". Simply highlight the desired files and copy to your PC. Once on the PC, they can be viewed or imported to many different software packages.

6.7 DD Library Updates

The DD Library is update approximately four times per year. There are new devices added and current DDs updated. Note that a DD Library update will NOT affect DDs that you added yourself. Users who provide their Email address to ProComSol will be notified when DD Library Updates are available. The Email will provide detailed instructions on how to obtain the update.

The DevCom App also notifies the user of an update with a "Push Notification" from our server. Also, simply go to the DD Library window to see if an update is available as shown below:

Step	Action
1	Ensure that the application is running. Communications do NOT need to have been established.
2	Select $\implies \rightarrow$ DD Library. The DD Library Window is displayed:



Step Action	
	ψ 🖬 🐝 🖬 🕰 🗚 🕅 💐 🛜 ₄∥ 94% Ϋ 2:25 PM
	\equiv DD Library
	DD Library Version: 2019-02 DD Library Location: /storage/emulated/0/ProComs Move to SD Card
	DD Library Update Available
	2019-03 Install
	Library Contents Add New DD File

The App contacts the ProComSol server to see if a newer version is available and shows an Install button if yes. Tap the "Install" button to begin download and installation of the DD Library Update.

3 A progress bar shows the status of the update. Speed depends on the quality of your internet connection. Do not close this screen during an update!

	▲ * ℕ № 斎 "∥ 92% 2 2:47 F ry	PN
DD Libi	ary Version: 2019-02	
DD Library Location:	/storage/emulated/0/ProCom	
	Move to SD Card	
	Installing	
Library Con	tents Add New DD File	



Step	Action
4	The user is notified when the download and install is complete.
	CD Library DD Library Version: 2019-03 DD Library /storage/emulated/0/ProComt Move to SD Card Install complete
	Library Contents Add New DD File

6.8 HART-IP Interface

6.8.1 Setup

DevCom allows you to connect to your WirelessHART network using HART-IP over an Ethernet connection to the networks WirelessHART Gateway. Once connected to a device, DevCom behaves just like connected via a modem. You can view data, edit parameters, etc. Below is the procedure for setting DevCom to use HART-IP and for connecting to a HART device:

Step	Action
1	Go to the Settings Window and change the "Modem Type" to "TCP/IP":



Step	Action			
		Ý 🖬 🖻 🕰	* 🛯 🔌 🎓 📶 79% 🖬 4	:47 PM
		\equiv Settings		
		Default Modem:	HART Modem 00:04:3D:20:11:66	
			00.04.3D.20.11.00	
			Reset	
		HART Master:	Primary Master	
			🗹 Secondary Mast	ter
		Polling Address:	Polling Address 0	•
		DD Language:	System Language	•
		Cloud	Disabled	•
			Configure	
		Modem Type	TCP/IP	•
		HART-IP	Configure	
		5	Save Settings	

2 The HART-IP Configuration button is now active. Tap it to bring up the HART-IP setup window.

IP Address	174.77.73.23	4	
Port	5094		
HART Address	0		
Save Settings		Back	

The default network IP address is the ProComSol demo WirelessHART network. It is used to demonstrate the HART-IP features of the DevCom App.

4 Make the necessary edits for your WirelessHART Gateway and

3



Step	Action				
	tap "Save Settings".				
5	Note that if changes were made to the HART-IP settings, you will need to restart DevCom.				
	ψ 🖬 🖻 🛦 🛛 🕸 🕅 🖄 🛱 2:37 PM				
	\equiv Settings				
	Default Modem: HART Modem 00:04:3D:20:11:66				

HART - IP parameters changed, DevCom must be restarted

Ok

TCP/IP

Settings

Modem Type HART-IP

6.8.2 Connecting to a Device

Once the connection to the WirelessHART Gateway is configured, restart DevCom. The App will then connect to the WirelessHART Gateway and retrieve network hierarchy information. This section describes how to then connect to the desired device.

Step	Action
1	Once the network hierarchy information is retrieved, it is displayed in the Gateway Network window. Note that the example below if for the ProComSol Demo network and that your network will look different:



Step Action	
	ψ 💼 🖬 🛤 😕 🗱 📚 👘 💆 12:53 AM
	wihartgw
	BLT-1001: BULLET
	T-110: WIRELESS 648x
	T-301 648 WirelessHART
	TH-1020: THUMB
	📳 wihartgw
	Scan Network

Item description:

Wihartgw – is the Tag for the WirelessHART Gateway BLT-1001:BULLET and others are devices on the WirelessHART network that have sub devices.

- 2 Tap "Scan Network" if you want to refresh the Gateway Network window.
- 3 Tap a device to show the sub-devices connected to it. Note that native WirelessHART devices will have itself as a sub-device. Below is the screen that shows after BLT-1001:BULLET is tapped. Again this is on the ProComSol Demo network:



tep	Action
	¥ ■ ► × × ? ? , 1 2 12:56 AM
	≡ Gateway Network
	← BLT-1001: BULLET
	BLT-1001: BULLET
	P-1011: 3095
	冒 T-104: TMT162
	Scan Network
	Item description:
	BLT-1001:BULLET – is the root device
	P-1011: 3095 and others are the sub-devices connected to the
	root device.
	Tap any of the sub-devices to connect to that device. The
	display then looks just like a modem connected device. The
	only difference is that the Bluetooth Activity icon is now the Wireless Activity icon as seen here:



	🜵 🖩 🕨 🤻 🗱 💱 🎲 📶 🖬 1:01 AM
	\equiv Device Explorer \bigcirc
	Device Model: 3095MV Tag: P-1011 (1) DD: /000026/0016/0203.fm8 Connected
	← Device setup
	Process variables
	Diag/Service
	Basic setup
	Detailed setup
	Review
	Cancel Commit

5 You are now connected to the device and can perform any DevCom function you like as if you were connected locally through a modem.

6.9 Cloud

6.9.1 User Setup

DevCom allows you to create a Cloud account on the ProComSol server. You can then store your device configuration data in a safe, secure, off-site server. This protects your data and allows you to share your configuration with your team members. Team members must join a Group in order to share data with other Group members. To get started you need to purchase a Cloud Subscription. Then you create your User Account and Create or Join existing Groups as needed. To get started, go to the Settings window.

Step	Action
1	Go to the Settings Window and change Cloud from Disabled to Enabled:



Step	Action		
		Ý 🖬 🖻 🕰	🖹 🔌 🍞 📶 79% 💆 4:56 PM
		\equiv Settings	
		Default Modem:	HART Modem 00:04:3D:20:11:66
		HART Master:	Reset
		Polling Address:	Polling Address 0
		DD Language:	System Language 🔹
		Cloud	Enabled
		Modem Type	Configure Bluetooth 🔹
		HART-IP	Configure
		ç	Save Settings

This will enable the "Configure" button.

2 Tap "Configure" to bring up the User Information Window.

♥ 🖬 🖬 🗚 ☰ User Info	* 🔃 💐 🛜 ₁ 79% 🖬 4:57 PM prmation
← Back to Se	ttings
Email Address	
Password	
Local Copy	Enabled
Group Name	
	Group Management
Subscription Status	None
Subscription End	
	Purchase Subscription
	User Logged Out
Create	e Login

3 Enter your email address and a password. Decide whether you want a local copy of your configuration data stored on this device or that you just want the data to go to the Cloud only. Set "Local Copy" appropriately. Then tap "Create" to create your account. Below shows a successful account creation:



Step Action	
	ψ 🖬 📠 🏕 🖹 💐 ទ៊ 📶 100% 🖬 10145 AM
	User Information
	← Back to Settings
	Email Address sandbox3@procomsol.com
	Password xxxxx
	Local Copy Enabled
	Group Name None
	Group Management
	Subscription Active
	Subscription 2020-02-16
	User Logged In
	Update User Logout

6.9.2 Group Create

Once you create your user account you can create a new Group for sharing your configurations or you can join an existing Group. If you Create a Group, you are the Admin for that Group. This allows you to invite team member, approve team members that request to join, and to manage Group membership going forward. To setup or manage Groups, tap the "Group" button. The Group Information window then appears.

Step	Action	_
1	Tap "Group Management" to bring up the Group Information window.	_



Step	Action				
		🕀 Ý 🕏 🗖	* 🛛 🛛	🛜 📶 100% 🖻 10	D:47 AM
		\equiv Group In	formation		
		← Back to Us	ser Informati	ion	
		Group Name	None		
		Create N	lew	Join Existi	ng

From here you can Create a new Group as an Administrator, or Join an existing Group.

2 Tap "Create New" to create a new Group.

	1				
⊕∳ ⊑ ∳ ≯ℕ`	💐 🛜 📶 100% 🛃 10:51 AM				
\equiv Group Information	on				
← Group Manag	ement				
^G Enter Group Nan	ne to create				
Utilities					
Cancel	Ok				
_	_				
Utilities					
1 2 3 4 5	6 7 8 9 0				
qwertyuiop					
a s d f	g h j k l				
↑ z x c v b n m ≪					
Sym	ish(US)				

Type a new Group Name in the box and tap "Ok" to create.

3 After the Group Creation Success message, the window now looks like below. From here you can View the other group members or Leave the Group.



Step	Action			
		🕂 🖬 🗲 🕂 🕂 🕂 🕂 🕂 🕂		, 1 100% <mark>∳</mark> 10:56 AM
			ser Information	1
		Group Name	Utilities	
		View Men	nbers	Leave Group

4 Tap "View Members" to see the members in this Group.

	हे 📶 100% 🔽 10:59 AN
N User	Cfgs Trds St Pnd
10 sandbox3@procomsol.com	0 0 En No
Invite User	Back

Columns Explained for this Admin User:

N - Simple index of members

User - The email address of the user

Cfgs (Configurations) - Number of Configurations this user has on the cloud.

Trds (Trends)- Number of Trends this user has on the cloud.



Step	Action
	Trends is an upcoming feature.
	St (State)- The State of this user. En is Enabled, and Ds is Disabled.
	Pnd (Pending)- The Group Join state of this user, known as Pending. If Yes, the user has requested to join this group and the Amin needs to Accept or no.
	Note that the above screen is for the Admin of this Group. If not the admin, the logged-in user can only see N, User, Cfgs, and Trds data.

6.9.3 Group Join, Admin Invite

The Admin for a group can invite other users to join. Once invited, the user will have to log-in and accept the invitation in order to have Group access. This section describes this process. Note that this logged-in user is an Admin for his Group.

Step	Action					
1	The Admin user logs in and Taps the "Group Management" button to get to the Group Information window.					
	← Back to User Information Group Name Utilities					
	View Members Leave Group					
	From here you can Create a new Group as an Administrator, or Join and existing Group.					

2 Tap "View Members" to see the members in this Group. The User Management window appears.



tep Action	œ∳⊾ \$ ≉N≷ [*]	🖥 📶 100% 🛃 10:59 AM	
	≡ User Management		
	N User	Cfgs Trds St Pnd	
	00 sandbox3@procomsol.com	0 0 En No	
	Invite User	Back	

Tap "Invite User" to invite a user to join the group.

3 Enter the email address of the user you wish to invite. Note that the user does not yet need to be created.

æ	† - 5 * N i	💲 📶 100% 🖥 11:14 AM
	User Managemei	nt
N 00	User Manager	ment
	Enter email addre invite	ess of user to
	quality@procoms	ol.com
	Cancel	Ok
	, the	
1	2 3 4 5	6 7 8 9 0
q	wert	y u i o p
	a s d f	g ĥ j k l
1		v b n m 💌
S	ym 🔮 Engli	sh(US) . Done

Tap "Ok" when done.

4 An email is sent to the user to prompt him to create an account and join this Group.



Step	Action	
		🚭 🖞 🖬 🔖 🔿 🐮 🕅 💐 🛜 📶 100% 💆 11:17 AM
		\equiv User Management
		N User Cfgs Trds St Pnd
		00 sandbox3@procomsol.com 0 0 En No User Management
		Invite email sent to quality@procomsol.com
		Ok
		Invite User Back

Now the Admin waits until the invited user acknowledges the invite.

5 The invited user logs in to their Cloud account and will now see a membership request message.

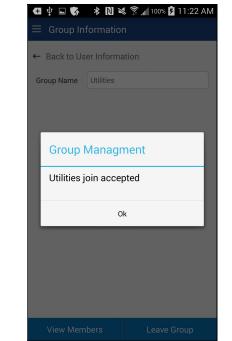
🛨 🜵 🖬 🕏 🗮 User Info	* 🔃 💐 🗊 📶 100% 🖻 11:19
0Sel III10	innation
← Back to Set	ttings
Email Address	quality@procomsol.com
Password	procom
Local Copy	Enabled
Group Name	Group Membership Requested
	Group Management
Subscription Status	Active
Subscription End	2020-02-16
	User Logged In
Update U	ser Logout

6 The user taps "Group Management" to get details on this invite.



Step	Action			
			* 🛯 🏹 🎘 100	11:21 AM 💈
		≡ Group Ir	formation	
		← Back to Us	ser Information	
		Group Name	Utilities	
			Join requested	
		Accep	ot	

7 Tap "Accept" to join the group. If successful, the window below is shown:



8 Now the user can View the other members in this group.



Step Action		
	← Back to User Information	
	Group Name Utilities	
	View Members Leave Group	

9 Tap "View Members" now shows a slightly different window since this user is NOT an admin.

ΝL
00 q 01 s

6.9.4 Group Join, User Request

The other way a user can join a Group is by requesting membership. Once requested the Admin must approve the join request. This section describes this process. Note that this logged-in user is NOT an Admin for his Group.



Step	Action							
1	The non-Admin user logs in and taps the "Group Management" button to get to the Group Information window.							
	 							
	← Back to User Information							
	Group Name None							
	Create New Join Existing							

Tap "Join Existing" to join an existing Group.

2 Enter the Group Name in the prompt.

(l 🜵 🖬 🎲 🎟 🗚 Ň : Group Informatio	💐 🛜 📶 99% 📴 11:43 AM n					
~	Group Manage	ement					
G	G Enter Group Name to Join						
	Utilities						
	Cancel	Ok					
U	tilities						
1	2 3 4 5	6 7 8 9 0					
q	wert	y u i o p					
	a s d f	j ĥ j k l					
1		/ b n m 💌					
Sy	/m 🔮 Englis						

Tap "Ok" when done.

3 If the Group exists, you will see a success message.



tep Action	
	ψ 🖬 🚯 🛋 🔻 🔃 💐 🛜 ₄∥ 99% 🖬 11:45 AM
	← Back to Settings
	Email Address ddlibrarian@procomsol.com
	Password procom
	Local Copy Enabled
	G Group Managment
	Utilities join requested
	Ok
	Subscription Active
	Subscription 2020-02-16
	User Logged In
	Update User Logout

Now this user must wait until the Admin acknowledges the Join request.

4 The Admin user logs in and goes to the User Management window by tapping Group Management->View Members. The requesting user is now shown in the list with Pnd (Pending) set to Yes.

ų	? 🖬 🕏 🖻 🗛 🔻 Ŋ 🛸 1	^و ۱. 🕄	9% 🗲	11:	49 AM					
	≡ User Management									
N 1		06	Teste	01	Dural					
	User		Trds							
	quality@procomsol.com	3	0		No					
	sandbox3@procomsol.com	0	0		No					
02	ddlibrarian@procomsol.com	1	0	En	Yes					
	Invite User		Bacl	k						

The Admin taps the new user to bring up the Group Information



Step	Action			
	window.			
5		v I I I I I I I I I I I I I I I I I I I	🋦 🕅 🔌 🖗 🥼 99% 🗗 11:51 AM Information	
		← Back to U	ser List	
		Group Name	Utilities	
		User Name	ddlibrarian@procomsol.com	
			Disable	
			Remove User from Group	
			Accept into Group	
			Back	

<u>Disable</u> - The user cannot log-in.

<u>Remove User from Group</u> - The user is removed from the Group but can still log-in to see their own data.

<u>Accept into Group</u> - User has asked to join this group. The Admin decides if this user should join.

In our use case here, Accept the join request from this user. Tap "Accept into Group".

6 If successful, the prompt below is shown.



Step	Action	
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		← Back to User List
		Group Name Utilities
		User Name ddlibrarian@procomsol.com
		Group Admin
		User ddlibrarian@procomsol.com accepted into Utilities
		Ok
		Back
-	T1 D 1 (D 1)	N
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6.9.5 Cloud and Saved Configurations

Once the user is created and joins a Group, he now has access to all the configurations saved by the Group members. These will now show in the Download Config window along with the user's own saved configurations. The Saved Configurations window now has more information and functions. This section describes the new information and functions.



Tap the "Down menu to bring u		•				0
sample.			8 (m P 1)	01 514		
		∎ 🗛 🖇 🔃 🛤 ′ I Configuration		2:01 PM		
	N Tag	Model	Date	Loc		
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	01 TESTPR	PR 5437/6437	2020-01-13	-		
	02 TEST	EJA	2018-06-21			
	03 TESTPR	PR 5437/6437	2020-02-05			
	Ма	nage	Browse			
The icons in the				ive spec	ial mean	ings:
-		cation) co	lumn ha	-	ial mean	ings:
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		01 TESTPR	PR 5437/6437	2020-01-13	X+
		02 TEST	EJA	2018-06-21	x
		03 TESTPR	PR 5437/6437	2020-02-05	Xt
		Se	lect	All	

The icons in the Fcn (Function) column have special meanings and are active buttons

X Delete the configuration

Download the configuration from the Cloud to the local device

1 Upload the configuration from the local device to the Cloud If the configuration does not have the Upload or Download icon it means the configuration is already in both locations.

3 Tap "All" to perform an operation on all configurations that qualify. You will be asked what operation to perform:



Step	Action				
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		\equiv Save	d Configuration		
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		01 TESTPR 02 TEST 03 TESTPf	PR 5437/6437 Select opera Upload All Download All Delete All	2020-01-13 ation	X + X X
			Cancel		

Select the operation you wish to perform and all configurations that qualify for that operation will have it performed on them.

4 To return to the normal Saved Configuration window display, tap "Select".

	E Saved	Configuration	s	
Ν	Tag	Model	Date	Loc
00		PR 5437/6437	2020-01-11	-
01	TESTPR	PR 5437/6437	2020-01-13	-
02	TEST	EJA	2018-06-21	
03	TESTPR	PR 5437/6437	2020-02-05	
	Mar	nage	Browse	



Appendix A

Troubleshooting Guide

Problem: Will not communicate

Hardware Check:

Verify the following:

- 1. Paired to correct HART Modem
- 2. Loop power supply is on.
- 3. Loop resistance between 250 ohms and 1Kohms.
- 4. Loop current within HART limits.
- 5. If multi drop configuration, all transmitters in loop have unique addresses.
- 6. HART interface hardware connected across loop resistor or across transmitter terminals.



Appendix B

Contact Information

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