

QUICK START

DevComFF 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 DevComFF 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 DevComFF:

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 DevComFF App

1. Copy the file "com.procomsol.devcomff.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 DevComFF License

Launch DevComFF by tapping the DevComFF 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 DevComFF 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.

Step 5: Connect the mobiLink communication interface

Connecting to a Foundation Fieldbus device requires special interface hardware to be attached to your computer. DevComFF only works with the MOBI-FF and MOBI-CMPLT modems available from ProComSol, Ltd and other sources. The modem should be connected and configured.

On initial start the App will prompt you for a FF modem to use. Make sure your modem is turned on and tap the "Scan for mobiLinks" button in DevComFF. Select your FF modem.

Step 6: Connect to the Foundation Fieldbus (FF) network

Connect the mobiLink to the FF network at the power hub or other dedicated FF access point for communicators.



Step 7: Live List

Click the New Device icon to start populating the Live List. The Live List shows all the FF devices connected to the segment powered by the Power Hub. Click on the device you wish to configure or view.

Step 8: Browse the Device

On initial start, DevComFF sends a command to the field device, establishes a connection, and learns its identity. Once DevComFF knows the device identity, it locates the device's DD in the library and loads it. From this point forward operation of DevComFF is determined by the DD provided by the device manufacturer.

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 9: 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 FF field device.

Step 10: 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 11: Exit

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



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1 INTRODUCTION

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

DevComFF 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	
FF	Foundation Fieldbus. The communication protocol.	
DD	Device Description File. This contains the device information.	
DDL	Device Description Language	
FCG	FieldComm Group, formerly the Fieldbus Foundation (FF)	
DevComFF	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.	
→ 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

DevComFF user manual is organized into the following sections:

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

1.4 Getting Help

If you need help or encounter problems when using DevComFF 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:

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



2 OVERVIEW OF DEVCOMFF

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. FF devices maintain a real-time database of process, configuration, identification, and diagnostic information. This information can be accessed using the FF Communications Protocol.

FF 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 FF 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.

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

DevComFF accesses and presents field device data based solely on its DD. No other files, information or custom drivers are required. DevComFF 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 FF field device,
- Provides a means to configure and view all the parameters related to FF field device, and
- Provides an option to view the detailed status and diagnostic capability of the device.

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



3 SYSTEM REQUIREMENTS

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

Mobile Device	Memory RAM: 1 GB Memory ROM: 2 GB Screen: 960x540 qHD	
SD Card	Optional	
FF 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 DEVCOMFF INSTALLATION

4.1 Prerequisites

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

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

4.2 Installing the DevComFF Application

4.2.1 DevComFF Application

To install the DevComFF application, perform the following steps:

Step	Action	
1	Copy the file "com.procomsol.devcomff.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.devcomff.apk".	
5	At the "Do you want to install this application?" select "Install".	

4.2.2 Activating DevComFF

DevComFF 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 DevComFF App. Accept the EULA (End User License Agreement). If you do not accept the App will close.





🖾 🗃 🛛 🕸 🕅 100% 🛢 18:54		
End User License Agreement		
LICENSED APPLICATION END USER LICENSE AGREEMENT PLEASE READ THIS AGREEMENT CAREFULLY. IT CONTAINS IMPORTANT TERMS THAT AFFECT YOU AND YOUR USE OF THE LICENSED APPLICATION AND THE SERVICES. YOU REPRESENT THAT YOU ARE ENTERING INTO THIS AGREEMENT IN THE COURSE OF CARRYING ON BUSINESS OR FOR BUSINESS PURPOSES (AND NOT AS A CONSUMER). IF YOU ARE ENTERING INTO THIS AGREEMENT ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE AUTHORITY TO BIND SUCH COMPANY OR ENTITY OTHE TERMS OF THIS AGREEMENT, IN WHICH CASE THE TERMS 'YOU' OR 'YOUR' SHALL ALSO REFER TO THE COMPANY OR ENTITY WHICH YOU REPRESENT OR ARE EMPLOYED BY, ITS AFFILIATES, AND EACH OF THEIR DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND REPRESENT ARE EMPLOYED BY, ITS AFFILIATES, AND EACH OF THEIR DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND REPRESENT OR ARE EMPLOYED BY, ITS AFFILIATES, AND EACH OF THEIR DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND REPRESENT OR ARE EMPLOYED BY, ITS AFFILIATES, AND EACH OF THEIR DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND REPRESENT OR ARE EMPLOYED BY, ITS AFFILIATES, AND EACH OF THEIR DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND REPRESENT OR ARE EMPLOYED BY, ITS AFFILIATES, AND EACH OF THE COMPANY OR COMDAIN THE TERMS OF THE LICENSED APPLICATION OR ACCESSING THE RELATED SERVICES, IFANY, YOU AGREE TO BE BOUND BY THE TERMS OF THEIS AGREEMENT ON YOUR OWN BEHALF AND, AS APPLICABLE, ON BHALF OF THE COMPANY OR ENTITY WHICH EMPLOYS YOU OR WHICH YOU REPRESENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, DO NOT INSTALL, COPY, OR USE THE LICENSED APPLICATION OR ANY OF THE SERVICES. PLEASE NOTE THAT, IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, YOU DO NOT AREE TO THE TERMS OF THIS AGREEMENT, YOU DO NOT AREE TO THE SERVICES, IF ANY. IF YOU DO NOT AREE TO THESE TERMS, ACCESS, OR USE THE SOFTWARE, AND PROMPTLY RETURN THE SOFTWARE WITH ALL ACCOMPANYING ITEMS TO YOUR PLACE OF PURCHASE FOR A FULL REFUND. This SOFTWARE IS LICENSED SOFTWARE OF THE SUFTWARE, AND PROMPT		

1 After the License Agreement is accepted, the Licensing window is shown:

p.		\$ 🔌 🖘 100% 🛢 18:55
Licensing	a	
License ID: Password:	Status: Demo expires in 10 days	
Email:		
	Order DevComFF Licens	e
Activa	te License Evaluati	on



Step	Action	
2	To activate your license: Enter the License ID and Password given in your license purchase. Also enter your Email address if you wish to receive update notifications. Then tap "Activate License". Once activated, this window will no longer 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 DevComFF License" and you will be sent to the DevComFF page on the ProComSol website.	

4.2.3 Installing the DD Library

The DD Library is required for the App to function. Perform the following to perform the initial DD Library load to your device:

Step	Action
1	The following Window is shown after the Licensing Window:
	※ \\ 令 100% # 09:05
	DD Library Version: Missing
	DD Library Location: /storage/emulated/0/ProComSol/FF/Library
	Move to SD Card
	DD Library Error
	DD Library is not available
	Ok
	DD Library Update Available
	2021-04 Install
	Library Contents Add New DD File
	Tap "Ok" to continue.



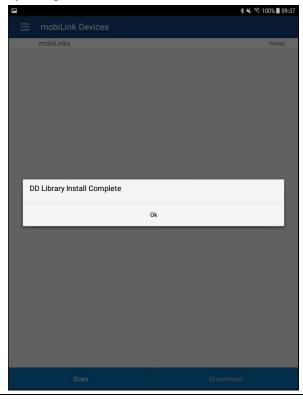
Step	Action		
2		📼 📃 DD Library	≉ ¥ েহি 100% ∎ 09:05
		DD	Library Version: Missing
		DD Library Location:	/storage/emulated/0/ProComSol/FF/Library
			Move to SD Card
		DD	Library Update Available
		2021-04	Install
		Library Content	s Add New DD File
	Tap "Ins	tall" to continue	·
3	The follo	owing screen wil	ll appear. Note that the full DD Librar

download takes about 15 minutes. Do not close this screen!



Step	Action				
		■ DD Library		* 🔌 🖘 100% 🖩 16	:16
		DD Library Location:	[sion: Missing ulated/0/ProComSol/FF/Library Move to SD Card	
			Install	ing	
		Library Contents		Add New DD File	

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





4.2.4 Selecting a FF Modem

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

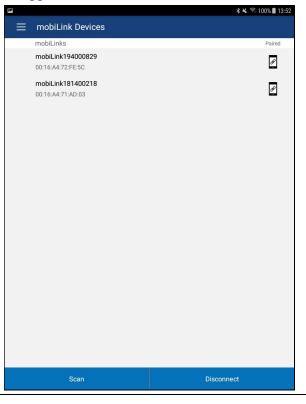
Step	Action
1	The following Window is shown after the initial DD Library install is complete:
	≅ \$ \ ^{\$} 100% ■ 13:52
	≡ mobiLink Devices
	mobiLinks Paired
	Scan Disconnect
2	Tap "Scan" to search for mobiLink devices within Bluetooth

range. This screen will show while the scan is in process:



Step Action			
P1		🕯 🔌 🗟 1009	6 🛙 09:38
	mobiLink Devices		
	mobiLinks	p or mobiLinks	ared

3 The next Window will show all available mobiLink devices after "Scan" was tapped.





Step	Action
6	Tap the desired mobiLink on the list. Once a mobiLink is selected and a successful connection is made, this Window will not appear again during start up.
	After selecting a mobiLink, communications with the FF segment will begin.

4.3 Connecting to the FF Network

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

Using the clips on the wires from the mobiLink, connect to the FF Power Hub or other dedicated FF communicator connection point.

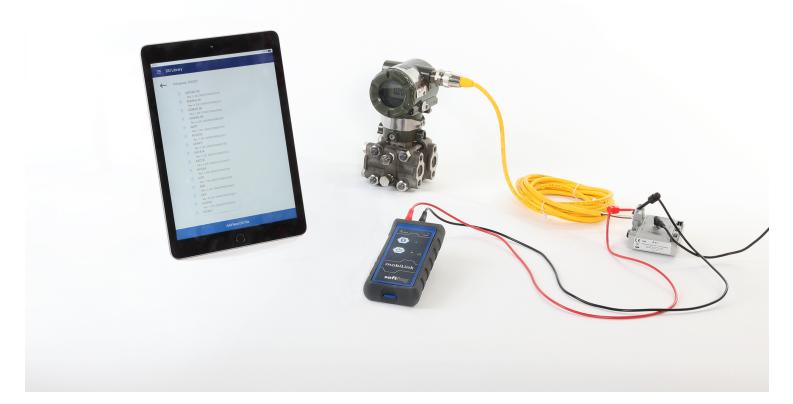


Figure 1 Typical DevComFF Hardware Setup



4.4 Uninstalling the DevComFF Application

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

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



5 USING DEVCOMFF

5.1 Starting DevComFF

Establish the physical connection between the field device and the FF Modem by connecting the FF leads to the FF power hub or dedicated FF communicator connection point in the segment. With the physical connection established, launch DevComFF by tapping the DevComFF icon on your device screen.

5.1.1 Live List

When first launching DevComFF, the App determines what devices are connected to the FF Segment. It polls address 0-247 and shows the results on the Live List.

Step	Action					
1	Start the DevComFF App. The App identifies the devices on the segment and displays them when found. For example:					
			10001104		🕷 🐔 🕄 100% 🛢 09:55	
		=	Live List			
		Ν	Address	Tag	Edit	
		0	33	R-0301-TEMP3	ф	
		1	26	FT106-1	¢	

From here you can tap the Tag of the device you want to connect to, or tap the Edit icon to edit the Address and Tag of the selected device.

Live List Updated

Update

5.1.2 Device Edit

When the Edit icon is tapped, details of the device are displayed and can be edited.

1 Details of the device are displayed and can be edited.



\equiv Device Details			\$ ¥ िः 1।	00% 🛢 09:56
Address	33			
Tag	R-0301-TEM	P3		
Device ID	0011510644	-EPM-TEMP-0x226B	B810	
Save			Back	

Make the required changes and then tap Save to make the changes permanent in the FF device. Tap Back to go back to the Live List. Note that DeviceID is read only.

5.1.3 Device Connect/Block List

When the Tag of the device you want to connect to is tapped, the App connects to that specific device, loads the proper DD file, and then displays menus and data based on the DD file loaded. The first menu displayed is a list of the blocks in the device.

1 An example of a block list. Note that each device type will have a different list based on its DD file.



\equiv Device Explorer		* ≼ জি 100% ∎ 09:56
Device Model: 644 DD: /001151/0644/0201.ffo		Tag: R-0301-TEMP3 Connected
	Available Blocks	
	Resource Block 2	
	Sensor Transducer Block	
	Transducer Block	
	Analog Input	
	Analog Input	
	PID Control	
Cancel		Commit

From here, tap on the block you wish to expand or perform other tasks as needed.

5.2 Getting Familiarized with DevComFF

5.2.1 The Device Explorer Window Fields

The DevComFF 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:



		🖇 🔌 🧊 100% 🛢 09:57
Device Ex	xplorer ②	3 📼
Device Model: 644 DD: /001151/0644		ig: R-0301-TEMP3 Connected (8)
	Resource Block 2 🗐	
← 🧐	Parameters 🔟	
Static Revision	59 13	
Tag Description	0x30,0x78,0x32,0x30,0x2C,0x30,0x78,0x32,0x30,(
Strategy	0	
Alert Key	0	
Block Mode . Target	0x0080	14
Block Mode . Actual	0x0080	
Block Mode . Permitted	0x0088	۰
Block Mode . Normal	0x0008	
Block Error	0x8008	
(<u>1</u> 5) C	ancel (16) Com	mit



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

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

DevComFF 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
	DevComFF – App name
DevComFF	Live List - List of FF devices found on the segment.
Live List	Block List - List of Blocks found on the connected FF device.
Block List	Device Explorer – Main device window with device data
Device Explorer	Settings – Launches Settings Window
Settings	mobiLink Devices – Launches mobiLink Selection Window.
mobiLink Devices Document Device	Document Device – Launches the Document Device Window
Download Config	Download Config – Launches the Saved Configurations Window
🔊 Calibration Check	Calibration Check - Launches the Calibration Check Window
DD Library	DD Library – Launches the DD Library Window.
Licensing	Licensing – Launches the License Window.
(i) About	About – Shows copyright information, support information, and update
Exit	information.
	Exit - Exit DevComFF.

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:



← Help Tag Description The user description of the intended application of the block.	ħ		🖇 🔌 🗟 100% 🛢 09:59
	Ļ	Help	
The user description of the intended application of the block.		Tag Description	
		The user description of the intended application of the block.	

5.2.4 Menu Color Scheme

DevComFF 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

DevComFF 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

DevComFF 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:



Step	Action			
		Device Explorer	*	🔌 😤 100% 🛢 09:56
		Device Explorer Device Model: 644 DD: /001151/0644/0201.ffo	Tag: R-C	D301-TEMP3 Connected
		Availab	le Blocks	
		Resource	ce Block 2	
		Sensor Trai	nsducer Block	
		Transdo	ucer Block	
		Analo	og Input	
		Analo	og Input	
		PID	Control	
		Cancel		

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 DevComFF:
White Data Background: Modifiable Values
Gray Data Background: Read only Values
Data field with gray triangle: Enumerated data



(F		ቆ 🔌 😚 100% 🛢 09:57
\equiv Device E	xplorer	
Device Model: 644 DD: /001151/0644		Tag: R-0301-TEMP3 Connected
	Resource Block 2	
\leftarrow	Parameters	
Static Revision	59	
Tag Description	0x30,0x78,0x32,0x30,0x2C,0x30,0x78,0x32,0x3	30,(
Strategy	0	
Alert Key	0	
Block Mode . Target	0x0080	
Block Mode . Actual	0x0080	
Block Mode . Permitted	0x0088	
Block Mode . Normal	0x0008	
Block Error	0x8008	
С	Cancel C	ommit

- 3 Select the parameter and configure the values, as required.
- 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:

	(P)	∦ 🔌 🗟 100% 🖺 09:56
	\equiv Device Explorer	
	Device Model: 644 DD: /001151/0644/0201.ffo	Tag: R-0301-TEMP3 Connected
	Available Blo	ocks
	Resource Block	:2
	Sensor Transducer	Block
	Transducer Bloc	ck
	Analog Input	
	Analog Input	
	PID Control	

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



(F		🖇 🔌 🗟 100% 🛢 11:33
	xplorer	
Device Model: 644 DD: /001151/0644		Tag: R-0301-TEMP3 Connected
	Sensor Transducer Block	
\leftarrow	Parameters	
Sensor Calibration Method	factory trim standard calibration	•
Sensor Calibration Location	Cal Lab 2	
Sensor Calibration Date	09/28/2001 Fri 00:00:00.000	
Sensor Calibration Who	jdobos	
Sensor Connection	3-wire	•
Secondary Value . Status	Bad::OutOfService:NotLimited	
Secondary Value . Value	29.13	deg C
Secondary Value Unit	deg C	
С		

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



Step Action

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:

Device Model: 644 DD: /001151/0644		Tag: R-0301-TEMP3 Connected	k
←	Sensor Transducer Block Parameters		
Sensor Calibration Date	09/28/2001 Fri 00:00:00.000		
Sensor Calibration Who	jdobos		
Sensor Connection	2-wire	•	
Secondary Value . Status	Bad::OutOfService:NotLimited		
Secondary Value . Value	29.13	deg C	
Secondary Value Unit	deg C		
Secondary value range . EU at 100%	100.00		
Secondary value range . EU at 0%	-60.00		

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



Step Acti			
	E Device E	xplorer	* 🛰 🗟 100% 🛢 11:35
	Device Model: 64 DD: /001151/064		Tag: R-0301-TEMP3 Connected
		Sensor Transducer Block	
	\leftarrow	Parameters	
	Sensor Calibration Date	09/28/2001 Fri 00:00:00.000	
	Sensor Calibration Who	jdobos	
	Sensor Connection	2-wire	•
	Secondary Value . Status	Bad::OutOfService:NotLimited	
	Secondary Value . Value	29.13	deg C
	Secondary Value Unit	deg C	
	Secondary value range . EU at 100%	100.00	
	Secondary value range . EU at 0%	-60.00	
		Cancel C	Commit

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

E.		🗚 🔌 🗟 100% 🛢 11:35
Device Ex	xplorer	₿
Device Model: 644 DD: /001151/0644		Tag: R-0301-TEMP3 Connected
\leftarrow	Sensor Transducer Block Parameters	
Sensor Calibration Date	09/28/2001 Fri 00:00:00.000	
Sensor Calibration Who	jdobos	
Sensor Connection	3-wire	•
Secondary Value . Status	Bad::OutOfService:NotLimited	
Secondary Value . Value	29.13	deg C
Secondary Value Unit	deg C	
Secondary value range . EU at 100%	100.00	
Secondary value range . EU at 0%	-60.00	
С	ancel C	commit



Step	Action		
8	Select the variable d valid values to use:	ata to edit it. A list will	l appear with the
		plorer	
	Device Model: 644 DD: /001151/0644		Tag: R-0301-TEMP3 Connected
	~	Sensor Transducer Block Parameters	
	Sensor Calibration Dat	Sensor Connection	
	Sensor Calibration Wh	2-wire 3-wire	
	Sensor Connection	4-wire none	
	Secondary Value . Status		
	Secondary Value , Value		eg C
	Secondary Val Unit	Cancel	
	Secondary value range . EU at 100%	100.00	
	Secondary value range . EU at 0%	-60.00	
	c	ancel Cor	nmit
0		• 1 4	

- 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:



Step	Action
------	--------

Device Ex	kplorer	≴ 🔌 🗟 100% 🖩 1	
Device Model: 644 DD: /001151/0644		Tag: R-0301-TEMP3 Connected	*)
←	Sensor Transducer Block Parameters		
Sensor Calibration Date	09/28/2001 Fri 00:00:00.000		
Sensor Calibration Who	jdobos		
Sensor Connection	2-wire	•	
Secondary Value . Status	Bad::OutOfService:NotLimited		
Secondary Value . Value	29.13	deg C	
Secondary Value Unit	deg C		
Secondary value range . EU at 100%	100.00		
Secondary value range . EU at 0%	-60.00		
0	ancel	Commit	

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

£		∦ 🔌 🗟 100% 🛢 11:35			
⊟ Device Ex	Device Explorer				
Device Model: 644 DD: /001151/0644		Tag: R-0301-TEMP3 Connected			
\leftarrow	Sensor Transducer Block Parameters				
Sensor Calibration Date	09/28/2001 Fri 00:00:00.000				
Sensor Calibration Who	jdobos				
Sensor Connection	2-wire	•			
Secondary Value . Status	Bad::OutOfService:NotLimited				
Secondary Value . Value	29.13	deg C			
Secondary Value Unit	deg C				
Secondary value range . EU at 100%	100.00				
Secondary value range . EU at 0%	-60.00				
C	ancel C	Commit			



6.2.3 Executing Methods or Standard Operating Procedures

Methods are defined in the DD file for the device that DevComFF 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:

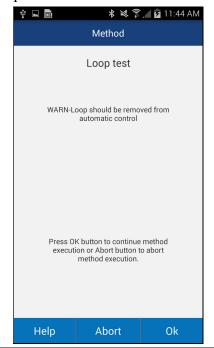
Step	Action			
1	Ensure that the been established	application is running and	d communicati	ons have
		Device Explorer	\$ 🔌 🗟 100% 🖩 09:56	
		Model: 644 D1151/0644/0201.ffo	Tag: R-0301-TEMP3 Connected	
		Available Blocks		
		Resource Block 2 Sensor Transducer Block		
		Transducer Block		
		Analog Input		
		Analog Input		
		PID Control		
		Cancel	Commit	

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



Step	Action		
		Device Explorer	≉ 🔌 🕏 100% 🛢 11:30
		Device Model: 644	
		DD: /001151/0644/0201.ffo	Tag: R-0301-TEMP3 Connected
		← Sensor Trans	
		Sensor Inp	out Trim
		Set Trim F	actory
		Set Sensor/Type	Connections
		Display Sensor	Connections
		Cancel	Commit

3 Below is an example of a Method window:



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:



		Ŷ 🖬 📑	* * *	11:45 AM
			Method	
			Loop test	
			4mA	
			20mA	
			Other	
			End	
			Cancel	
		Liele	About	
		Help	Abort	Ok
5	Click "Abort" to	cancel the	e Method ex	xecution.
5	Click "Help" to get specific help for that step of the Method. This Help information is provided by the device DD.			

6.3 Calibrating FF 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

DevComFF 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:



Step	Action		
		Device Explorer	* 🗙 🖘 100% 🖩 09:56
		Device Model: 644 DD: /001151/0644/0201.ffo	Tag: R-0301-TEMP3
		Availab	le Blocks
		Resource	ce Block 2
		Sensor Trai	nsducer Block
		Transdo	Jcer Block
		Analo	og Input
		Analo	og Input
		PID	Control
		Cancel	Commit
		Gancer	Commut

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

		🗚 🔌 🗟 100%।
	Block Status	
N	Block Name	Status
0	Resource Block 2 (1000)	OutOfService,SimulationActive
1	Sensor Transducer Block (1100)	OutOfService
2	Transducer Block (1200)	OutOfService
3	Analog Input (1300)	OutOfService
4	Analog Input (1400)	None
5	PID Control (1500)	None
	Back	



Step	Action
	The status text is shown for block.
3	Tap the Back button to close the Device Status window.

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		at the application is I to have been esta	s running. Communications do blished.		
2		ect $\equiv \rightarrow$ Settings from the main window. The Settings dow is displayed:			
		A	≉ 🔌 জি 100% 🖩 13:51		
		\equiv Settings			
		Default Modem:	mL194000829_BLE 00:16:A4:72:FE:5C		
			Remove		
		Slot Time (1 to 4095)	8		
		Max Response Delay (1 to 11)	10		
		Min InterPDU Delay	16		
		First Unpolled Address	128		
		Last Unpolled Address	247		
		Polling Range	17 to 127, 248 to 255		
		Cloud	Enabled Configure		
			Save Settings		
	Each Setti	ng is explained be	low.		

6.5.1.1 Default Modem

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

6.5.1.2 Slot Time

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This option allows the user to select the Slot Time. Valid range is 1 to 4095.

6.5.1.3 Max Response Delay

This option allows the user to set the Maximum Response Delay. Valid range is 1 to 11.

6.5.1.4 Min InterPDU Delay

This option allows the user to select the Minimum InterPDU Delay. Valid range is xx to yy.

6.5.1.5 First Unpolled Address

This option allows the user to select the range of addresses polled when looking for devices on the FF segment. Valid range is xx to yy.

6.5.1.6 Last Unpolled Address

This option allows the user to select the range of addresses polled when looking for devices on the FF segment. Valid range is xx to yy.

6.5.1.7 Polling Range

This is a notification showing the user the address range that will be polled. It is based on the First and Last Unpolled Address settings.

6.5.1.8 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" to save the Cloud setting.

6.5.2 mobiLink Devices

This window allows the user to view the current modem or to change what modem to use for communications.

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



Step	Action			
	P		🕯 🔌 🗟 100% 🗎	13:52
		\equiv mobiLink Devices		
		mobiLinks	Paire	ed
		* mobiLink194000829 00:16:A4:72:FE:5C	Ø	
		mobiLink181400218	Ø	
		00:16:A4:71:AD:03	Ø	
		Scan	Disconnect	
2	Tanning th	e currently selected	mobiLink will restart	the
<u>_</u>	connection			
3	Tapping "S	Scan" will look for i	nearby mobiLink device	ces using
	Bluetooth.			_
1	Tonnin ~ "T	Viacoma of? will	nove the compaction to	the arrest
4	mobiLink.	Jisconnect will rer	nove the connection to	ine curren

6.5.3 Document Device

FF 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:

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



Step	Action			
		Device Explorer	¥ ¥ रू 100% ∎ 09:56 	
		Device Model: 644 DD: /001151/0644/0201.ffo	Tag: R-0301-TEMP3 Connected	
			le Blocks	
		Resour		
		Sensor Tra	nsducer Block	
		Transdo	Jcer Block	
		Analo	og Input	
		Analo	og Input	
		PID	Control	
		Cancel	Commit	

2 Select $\implies \rightarrow$ Document Device from the main window. The Document Device window is displayed:

P	🗚 🔌 🕤 100% 🖥 13:54
\equiv Document Device	
File Location:	/ProComSol/FT106-1_20220614_135257
Technician:	
Notes:	
Header:	
Footer:	
	Save Configuration



Step	Action
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 PDF file.

6.5.4 Download Config

The saved FF 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:

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

£.				🗚 🔌 🕾 100% 🛢 13:5
	\equiv Saved Conf	igurations		
Ν	Tag	Model	Date	Location
00	R-0301-TEMP3	644	2022-06-08	
	Mana	ge	Brows	e



Step	Action
	The icon means the configuration file is stored locally on the device.
2	The saved configurations are shown in the order they were created. You can scroll up and down the list if necessary.

3 Tap a configuration to view details of the configuration. When a configuration is tapped, the Configuration Detail window is displayed:

P	\$ 🔌 🗟 100% 🖩 13::
\equiv Configuration Det	ail
Configuration 00: R-030	01-TEMP3 (2022-06-08)
Tag:	R-0301-TEMP3
DeviceID	0011510644-EPM-TEMP-0x226BB810
Device:	644
File Name:	R-0301-TEMP3_20220608_094325
Date:	2022-06-08
Notes:	share test 2
View	Download

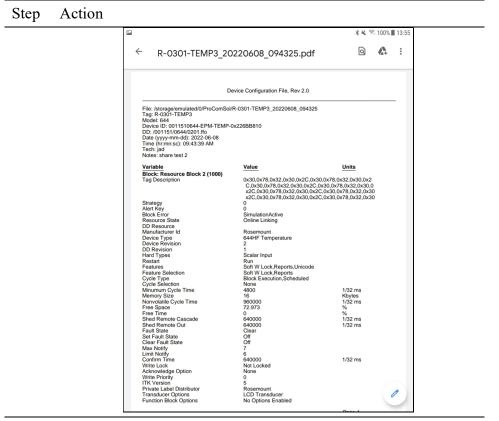
This window shows the details of the saved configuration.

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 App:







3 Tap the "Back" key to dismiss

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				
		Configuration Det	ail	* ¥ জ 100%	13:55
		Configuration 00: R-030	01-TEMP3 (202	2-06-08)	
		Tag:	R-0301-TEM	P3	
		DeviceID	0011510644	-EPM-TEMP-0x226BB810	
		Device:	644		
		Download Config			
		Download Config?			
		No		Yes	
		Notes:	share test 2		
		View			

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



Step	Action		
		□ Ξ Configurat	* ୯ জ 100% ॥ 13: ation Detail
		Configuration	n 00: R-0301-TEMP3 (2022-06-08)
		Tag:	R-0301-TEMP3
		DeviceID	0011510644-EPM-TEMP-0x226BB810
		Device:	644
		Download C	Config
		Disconnect the	e device from the control system
			Ok
		Notes:	share test 2
			Tou Doublad

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.
- 6 When the configuration write is complete, the following prompt will be displayed:



Step	Action		
		≅ 0 ∞	\$ ¥ रू 100% ∎ 11:30
		Device Model: 644 DD: /001151/0644/0201.ffo	Tag: R-0301-TEMP3 Connected
		Available B	
		Resource Blo	ck 2
		Sensor Transduc	er Block
		Download Configuration	
		Download Successful	
		Ok	
		PID Contro	JI IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
		Cancel	Commit
	Tap "Ok	" to dismiss.	

6.5.4.3 Configuration Browse

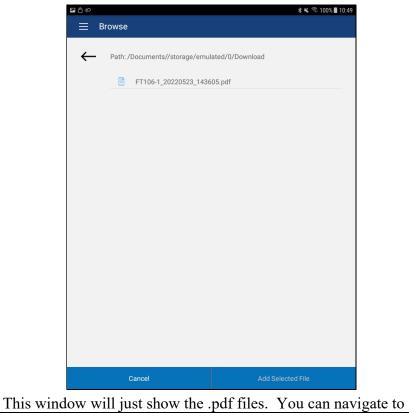
This function allows the user to bring configurations saved from another source into their device. The other source can be other DevComFFDroid users or even DevComFF2000 users.

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				
					* 🔌 🕾 100% 🖩 13:54
		\equiv Saved Con	figurations		
		N Tag	Model	Date	Location
		00 R-0301-TEMP3	644	2022-06-08	
		Man	age	Browse	

3 Tap "Browse". The Browse window is displayed:





Step	Action			
	other directories using the Back key.			
4	other directories using the Back Key. Select the desired configuration to add to the device. Once selected, the "Add Selected" button becomes active:			
	Cancel Add Selected File			
5	Tap "Add Selected", and the following prompt appears whe	n the		

Configuration Add is complete:



Step	Action				
		ې			∦ 🔌 🕾 100% 🛢 11:14
		\equiv Saved Cont			
		N Tag	Model	Date	Location
		00 R-0301-TEMP3	644	2022-06-08	
		01 FT106-1	EJA (Software Download)	2022-05-23	
			_		
		Configuration	n Add		
		Configuration Ac	dd Successful		
			Ok		- 8
			Űĸ		_
		Maria		Decus	

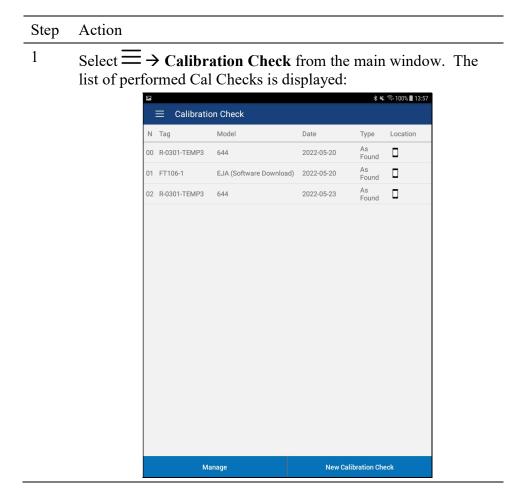
6 The added configuration now appears in the Saved Configuration list and can be viewed, downloaded, etc.

	ġ, ¢			∦ 📽 🗟 100% 🛢 11:14
	Saved Config	urations		
Ν	Tag	Model	Date	Location
00	R-0301-TEMP3	644	2022-06-08	
01	FT106-1	EJA (Software Download)	2022-05-23	
	Managar		Durante	
	Manage		Browse	



6.5.5 Calibration Check (Cal Check)

Calibration Check is feature that with an external calibrator, turns the DevComFF App into a Documenting Calibrator. It is a simple process to see if the FF 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.



6.5.5.1 View Saved Cal Checks

To view saved Cal Checks, perform the following steps:

Step	Action
1	Tap the Cal Check of interest from the list of Cal Checks
2	The window below appears:



Step	Action				
		° ▲ ≫	Detail	≵ 🔌 🕾 100% 🖩 09:12	
		Calibration Check 02: R	-0301-TEMP3 (2022-05-23)		
		Туре	As Found		
		Tag:	R-0301-TEMP3		
		Device ID	0011510644-EPM-TEMP-0x226BB810		
		Device:	644		
		File Name:	R-0301-TEMP3_20220523_142221		
		Date:	2022-05-23		
		Notes:	share test 2		
		View	Delet	•	

This window shows the details of the saved Cal Check.

3 Tap "View" to get the results of the Cal Check.

🖻 🕆 📥			🗚 🔌 🗟 100% 🛢 09:1
III	Calibration Check	Results	
Point	Expected	Read	Error
	DV: Sonoo	Transducer Block: Primary	Value Value
	PV. Sensor	Transducer block. Primary	y value.value
1 2 3	20.00 deg C 185.00 deg C 350.00 deg C	0.00 deg C 0.00 deg C 0.00 deg C	6.06% 56.06% 106.06%
		Calibration Type: As	Found
		Canoration Type. As	Found
	View PDF		Back

4



Step	Action							
	Cal Check	resu	lts.					
5	Tap "Viev	v PDI	F" to v	iew the	cal Check re	sults F	PDF	F File.
		🖬 🕆 📥				***	ै 100%	09:13
		÷	R-0301-TE	MP3_2022	0523_142221.pdf	۵	& +	*
		_		Device	Calibration Check: Rev 1.0			
		Tag: R Model: Device DD: /0 Date (y Time (i Tech: j Notes: PV: Se URV: 2 LRV: 2 Numbe Calibra	-0301-TEMP3 644 ID: 0011510644/0201 ryyy-mm-dd): 202 hrmn:sc): 02:22:4 ad share test 2 nsor Transducer 550 deg C 0 deg C or of Points: 3	EPM-TEMP-0x224 .ffo 2:05-23 I5 PM Block: Primary Val				
		Point	PV Expected	PV Read	PV Error			_
		1 2 3	20.00 deg C 185.00 deg C 350.00 deg C	0.00 deg C 0.00 deg C 0.00 deg C	6.06% 56.06% 106.06%			
			I certify that this I further certify t	electronic signatu hat I performed the propriate procedure	re is the legal equivalent to my hand w Calibration Check on the Indicated d s.	vritten signature ate and that I		
								•

6.5.5.2 Create a New Cal Checks

To create a new Cal Checks, perform the following steps:

Step	Action
1	From the Calibration Check Window, tap "New Calibration Check"
2	The window below appears. Enter the appropriate data.





Step	Action		
		Define Calib	≵ ঋ জি 100% ∎ 13:57 pration Check
		File Location:	/ProComSol/FT106-1_20220614_135724
		Technician:	jad
		Notes:	
		Parameter:	Resource Block 2 (1000): Free Space
		LRV:	20 %
		URV:	350 %
		Number of Points:	
		Calibrator	Tegam 948A, SN: 5226955-0002, Cal Due: 12/23/2023
			Calibrator
			Start Cal Check
3	Tag_Date	_Time. The	is /ProComSol. The default file na filename can be changed by the u ame as needed.

- 4 Enter Notes in the Notes field if desired. Enter Technician name in the Technician field if desired.
- 5 Select the parameter to check from the drop down list. The parameter is shown with the Block name, Block address, and parameter name. The list only shows the dynamic parameters from the device DD.
- 6 Manually enter the URV and LRV data. The units are read from the DD for the selected parameter and are read only.
- 7 Number of Points is the number of calibration check points you wish to examine between (and including) the LRV and URV values.
- 8 The Calibrator data shown is the last selected calibrator. To select a different calibrator, edit an existing calibrator, or to create a new calibrator, tap the "Calibrator" button. See section x.x.x for details.
- 9 Tap "Start Cal Check" to begin.
- 10 The Cal Check now steps through each point telling the user



Step Action

what value to apply to the FF device using an external calibrator.

FF		🖇 🔌 🗟 100% 🖿	13:59
\equiv Calibration Check			
Device Model: EJA (Software Download) /LC1 DD: /594543/0008/0105.ffo		Tag: FT106-1 Connected	*)
Point	1 of 3		
Apply	20 GPM		
PV =	0 GPM		
Quit		Save	

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





Step	Action			
		■ E Calibration Check	\$ 🔌 জি 100%।	14:04
		Device Model: EJA (Software Download) /LC1 DD: /594543/0008/0105.ffo	Tag: FT106-1 Connected	*
		Point	3 of 3	
		Apply 350.	0000 GPM	
		Calibration Type		T
		What type of Calibration Check?		
		As Found	As Left	
		Quit	Save	
	Tap the a	appropriate response.		

13 The user is then asked to sign the calibration report electronically. The signing statement is shown and the user enters their electronic signature text in the edit box.



Step	Action			
		■ ▲ 🗅	ıre	≉ 🔌 😤 100% 🛢 09:35
		Electro	nic Signat	ture Agreement
		electronically. You agree your E handwritten signature on this C or other third party verification is	lectronic Signatu alibration Report s necessary to va	" button, you are signing this Calibration Report re is the legal equivalent of your manual/ You also agree that no certification authority alidate your Electronic Signature, and that the n will not in any way affect the enforceability of
		Name	Dobos	
		I Accept		Cancel

12 A Calibration Check PDF report is then shown.

				** =	100%	09
-	FT106-1_2	20220615_	093422.pdf	Q	A +	:
		Devi	ice Calibration Check: Rev 1.0			_
Tag: F Model: Device DD: /59 Date (y Time (I Tech: Notes: PV: An URV: 3 LRV: 2	T106-1 EJA (Software ID: 594543000 94543/0008/01(/yyy-mm-dd): 2(hr:mn:sc): 09:34 alog Input (400 350 GPM 0 GPM	Download) /LC1 8J0016034 05.ffo 022-06-15	1106-1_20220615_093422 2.Value			
Numbe	er of Points: 3		0002, Cal Due: 12/23/2023			
Point	PV Expected	PV Read	PV Error			_
1 2 3	20 GPM 185 GPM 350 GPM	0 GPM 0 GPM 0 GPM	6.06% 56.06% 106.06%			
	I further certify followed the a	nis electronic signa y that I performed ppropriate proced bbos 2022-06-15	ature is the legal equivalent to my hand w the Calibration Check on the indicated d jures.	rritten signature. ate and that I		

Click the <- icon to dismiss the PDF file.



Step Action

13 The Cal Check finish indication is shown if successful.

≡			* 🔌 🖘 100% 🛢 09:38
	Calibration Ch		
Point	Expected	Read	Error
	PV	: Analog Input (4000): Process Valu	ue.Value
1	20 GPM	0 GPM	6.06%
2 3	185 GPM	0 GPM	56.06%
3	350 GPM	0 GPM	106.06%
Ca	alibration Check		
	indiation oneok		
Ca	alibration Check C	omplete	
	indiation check c	ompiete	
		Ok	
╘			
Ì			
Ì			
		Collector Tra	and
		Calibration Type: As Fo	und
	View PDF		und Back

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

∎ ≜ •	Calibration Ch	eck Results	∦ 🕷 😤 100% 🖩 09:30
Point	Expected	Read	Error
	PV:	Analog Input (4000): Process V	/alue.Value
1 2 3	20 GPM 185 GPM 350 GPM	0 GPM 0 GPM 0 GPM	6.06% 56.06% 106.06%
		Calibration Type: As	Found
	View PDF		Back



Step Action

Note that Error is % of scale.

6.5.5.3 Cal Check Calibrator

This section describes how to select, edit, or create a Calibrator that is recorded as part of the Cal Check Calibration report.

Step	Action						
1	Tap the "Calibrator" button on the Cal Check Window.						
2	The wind	The window below appears:					
					∦ 🔌 🗟 100% 🛢 13:58		
		N Manufacturer	Model	Serial Number	Expiration Date		
		0 fluke	789	1234	3/1/2022		
		1 beemex 2 fluke	567 754	2222 546789	2/3/22		
		3 beemex	123	999	12/23/21		
		4 meriam	1234	999990	12/23/21		
		5 Tegam	948A	5226955-0002	12/23/2023		
		New Calib	orator		Back		

This window shows s list of the saved Calibrators.

3 Tap the desired Calibrator to use or to edit. The Calibrator Detail window appears.





Step	Action			
			ঃ খ . © 100% ∎ 13 ;	:59
		← Manufacturer	Tegam	
		Model	948A	
		Serial Number	5226955-0002	
		Expiration Date	12/23/2023	
		Edit	Use	

Tap "Edit" to change the information. Or tap "Use" if this is the calibrator you are using to perform the Cal Check.

4 If "Edit" was tapped, a blank Calibrator screen appears. Enter the appropriate information.



Step	Action				
		 Calibrator Details 	,	՝ 🕷 🗟 100% 🖥 13:58	
		\leftarrow			
		Manufacturer			
		Model			
		Serial Number			
		Genarivaniber			
		Expiration Date			
		Save		Delete	
		Save		Delete	

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.

6.5.6.1 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				
		DD Library		🖇 🔌 🗟 100% 🛢	13:48
		DD	Library Vers	ion: 2021-04	
		DD Library Location:	/storage/emu	ulated/0/ProComSol/FF/Library]
				Move to SD Card	
			DD Library U	p to Date	
		Library Content	s	Add 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.

6.5.6.2 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				
				* % কি 100'	6 🗎 13:48
		DD Library		sion: 2021-04 nulated/0/ProComSol/FF/Library Move to SD Card	
			DD Library	Up to Date	-
		Library Content		Add New DD File	

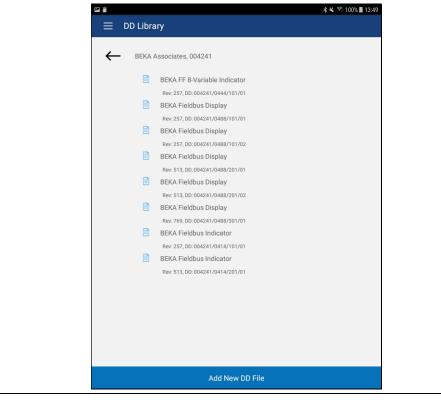
3 Tap "Library Contents" The following Window is displayed:



The list of manufacturers is shown in alphabetic order.



Step	Action
4	Select a manufacture and the list of devices for that manufacturer are displayed:



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:



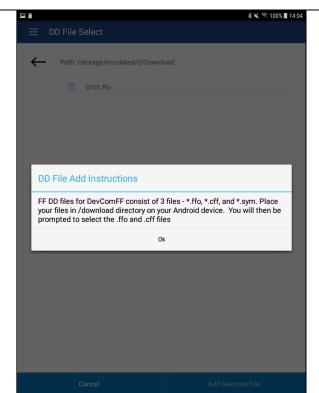
Step	Action				
		■ 🖼 DD Library		≉ 🔍 😚 100% 🛢 13:48	
		DD I		rsion: 2021-04 nulated/0/ProComSol/FF/Library Move to SD Card	
		C	D Library	Up to Date	
		Library Contents		Add New DD File	

3 Tap "Add New DD File" The following instruction message is shown:

"FF DD files for DevComFF consist of 3 files - *.ffo, *.cff, and *.sym. Place your files in /download directory on your Android device. You will then be prompted to select the .ffo and .cff files"





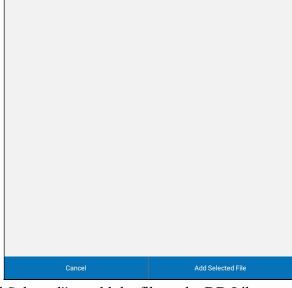


3 Tap "Ok" to continue. The following file selection Window displays the .ffo files found in this library.





Step	Action
	Use the <- key to navigate the Android 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.
	DD File Select Path: /storage/emulated/0/Download
	C 0101.ffo



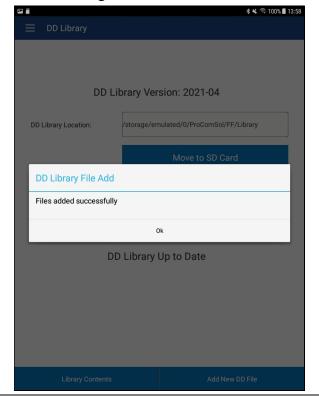
Tap "Add Selected" to add the file to the DD Library.

5 Repeat the same process for the .cff file:



Step	Action			
		■ ■ DD File Select	🕯 🔌 🗟 100% 🛢 13:57	
		Path: /storage/emulated/0/Dov	vnload	
		010101.cff		
		Cancel	Add Selected File	

6 You will see the message below if successful.





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 → Licensing. The Licensing Window is displayed:
3	Tap the "License Check-In" to send the license back to our server. It can then be used on another Android device. This

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 DevComFF 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



Step	Action			
	is displayed:			
		ψ ÿ⊑ m Δ ≉ Ν	💐 🗊 📶 76% 🔽 2:54 PM	
		\equiv About		
		Dev	Com	
		Program Rev	ision: 2.2.3.8	
		DD Library Ve	rsion: 2019-03	
		Copyright © 2016-2	019 ProComSol, Ltd	
		This is a product of Pr contains FCG SDC-624 SDC-625 technology is FieldComm Group (FC Blvd., Suite 1-120, Aus may not be adopted, c modified, licensed, sub resold other than unde FCG.	i technology. The FCG : owned 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.

-	ψ 🖬 🚱 💼 🛕 🔌 🕅 💐 🛜 📶 77% 🙆 3:05 PM Ξ Program Update
	Program Revision: 2.2.3.6
	Program Update Available
	2.2.3.7 Available Install
	Back
Tap "Install" to co	opy the .apk file to your device

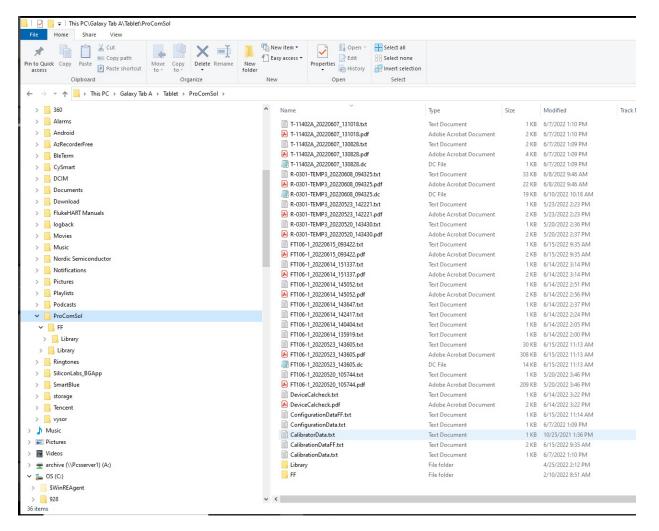
MAN-1056 06/14/2022

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:



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 DevComFF 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	—

² Select $\implies \rightarrow$ **DD** Library. The DD Library Window is displayed:

	🗚 🔌 🗟 100% 🛢 15:17
\equiv DD Library	
	orary Version: 2021-03 /storage/emulated/0/ProComSol/FF/Library Move to SD Card
DD Lit	orary Update Available 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!



Step	Action				
		DD Library		≵ 🕷 জি 100% 🛢 15:18	
		DD	Library Ver	sion: 2021-03	
		DD Library Location:	/storage/en	nulated/0/ProComSol/FF/Library	
				Move to SD Card	
			Instal	ling	
			motan		
		_			
		Library Contents	s	Add New DD File	

4 The user is notified when the download and install is complete.

≡ DD Library	
DD Library Vers	ion: 2021-04
DD Library Location: /storage/emu	lated/0/ProComSol/FF/Library
	Move to SD Card
Install cor	mplete
Library Contents	Add New DD File



6.8 Cloud

6.8.1 User Setup

DevComFF allows you to make use of a Cloud account on the ProComSol server. You can store your device configuration and Cal Check data in a safe, secure, off-site server. This protects your data and allows you to share your device configurations and Cal Checks 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 enable the Cloud features and Create or Join existing Groups as needed. To get started, go to the Settings window.

Step	Action		
1	Go to the S Enabled:	settings Window an	nd change Cloud from Disabled to
	P	a 📃 Settings	🕸 🔌 🕾 100% 🖩 13:51
		Default Modem:	mL194000829_BLE 00:16:A4:72:FE:5C
			Remove
		Slot Time (1 to 4095)	8
		Max Response Delay (1 to 11)	10
		Min InterPDU Delay	16
		First Unpolled Address	128
		Last Unpolled Address	247
		Polling Range	17 to 127, 248 to 255
		Cloud	Enabled Configure
			Save Settings
	This will e	nable the "Configu	re" button.
2	Tap "Confi	igure" to bring up	the User Information Window.





Step	Action				
		User Information		* ¥ रू 100% ।	14:33
		← Back to Settings			
		Email Address	support@pr	ocomsol.com	
		Group Name	None		
				Group Management	
		Local Copy	Enabled	•	
		Subscription Status	Active		
		Subscription End	2024-01-01		
		Update Settings		Back	

3 Enter your email address. Decide whether you want a local copy of your device configuration and Cal Check data stored on this device or that you just want the data to go to the Cloud only. Set "Local Copy" appropriately.

This window also shows the status of your Cloud Subscription.

6.8.2 Group Create

Once you enable your Cloud account you can create a new Group for sharing your data 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 members, approve team members that request to join, and to manage Group membership going forward. To setup or manage Groups, tap the "Group Management" button. The Group Information window then appears.

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



tep Action				
	A		* 🔌 🗟 100% 🛢 1	4:33
	\equiv Group Information			
	← Back to User Information			
	Group Name	None		
	Create New		Join Existing	
	re you can Create	a new Group	as an Admini	istrato
Join an e	xisting Group.			

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



Step	Action									
		E Gro							0% 📕 14:33	
			to User Infor	_						
										_
		Group	Manage	ement						
		Enter 0	roup Name	e to create						
		Utilities	l							
			Can	cel			C	lk		
			Utilities		Hostilities			Jtilizes		>
		1 2		4 5	6	s 7	8	9	0	Del
		q ⁺ w	e *	r t	y	u	i	0	p ¹	\propto
		a	s [®] c	f [#]	g h	^{&} j) k	c)		Done
		令 z	x	c v	b	n	m	, !	. ?	Ŷ
		Ctrl !10			English	(US)			4	Þ

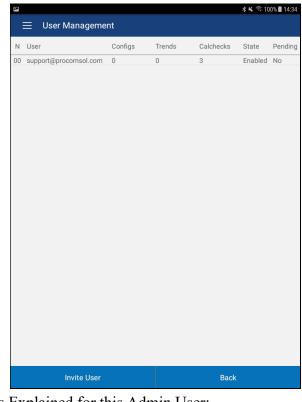
Type a new Group Name in the box and tap "Ok" to create.

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				
		■ Group Informatio	n	≵ 🔌 🕏 100% 🛢 14:34	
		← Back to User Information	n		
		Group Name	Utilities		
		View Members		Leave Group	
]

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



Columns Explained for this Admin User:



Step	Action
	N - Simple index of members
	User - The email address of the user
	Configs (Configurations) - Number of Configurations this user has on the cloud.
	Trends - Number of Trends this user has on the cloud. Trends is an upcoming feature.
	Calchecks (Cal Checks) - Number of Cal Checks this user has on the cloud.
	State - The State of this user. Enabled or Disabled.
	Pending - The Group Join state of this user, known as Pending. If Yes, the user has requested to join this group and the Group Administrator needs to Accept or not.
	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, Configs, Trends, and Calcheck data.

6.8.3 Group Join, Administrator Invite

The Administrator for a group can invite other users to join. Once invited, the user will have to accept the invitation from within DevComFF in order to have Group access. This section describes this process. Note that this user is an Administrator for his Group.

Step	Action
1	The Administrator user taps the "Group Management" button to get to the Group Information window.



Action				
	1		\$ 🔌 🗟 100% 🛢 14:34	
	\equiv Group Information	1		
	- Back to User Information	1		
	Group Name	Utilities		
	View Members		Leave Group	
	Action	G Group Information Group Name	Group Information Group Name Utilities	C Group Information ← Back to User Information Group Name Utilities

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





Step	Action	1				AM 8 10	00% 🔳 14:34
		🔳 User Managem	ent			↑ ► ™ 10	10.6 14.34
		N User	Configs	Trends	Calchecks	State	Pending
		00 support@procomsol.com	0	0	3	Enabled	No
		Invite User			Back		
	Tap "Inv	ite User" to inv	ite a us	ser to jo	oin the g	group	
	Enter the	email address	of the ı	iser vo	u wish t	o inv	ite.

the user does not yet need to be created. .



Step	Action							
		🖻 📃 User Managel				🖇 🔌 🗟 11	00% 🛚 14:36	
		N User	Configs	Trends	Calchecks	State	Pending	
		00 support@procomsol.co			3	Enabled		
		User Managem	ent					
		Enter email address of user to invite quality@procomsol.com						
		Cance	el		Ok			
		the 1 2 3	4 5	and 6 7	to 8 9	0	>	
		+ x ÷	= /					
		q w e r t y u i o p œ a s d f g h j k l Done						
		☆ z x	c v	b n	m ,	.?	仑	
		Ctrl !1@		English (US)			Þ	
	Tap "Ok	" when done.						

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



				∦ 🔌 🗟 1।	00% 🔳 14:36
📃 🛛 User Manage					
N User	Configs	Trends	Calchecks	State	Pending
00 support@procomsol.c			3	Enabled	No
User Managerr Group Request Ad		99			1
		Ok			
Invite L			Peol		
Invite Us					

5 The invited user goes to the Settings window and taps "Configure". They will now see a membership request message.



Step	Action		
		■	≵ ¥ रू 100% В 14:5'
		← Back to Settings	
		Email Address	quality@procomsol.com
		Group Name	Group Membership Requested
			Group Management
		Local Copy	Enabled
		Subscription Status	Active
		Subscription End	2024-01-01
		Update Settings	Back

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

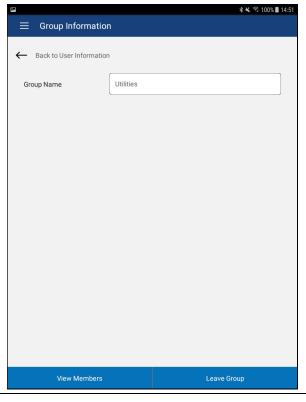
P		🗚 🔌 🕾 100% 🛢 14:51
\equiv Group Information	h	
← Back to User Information	1	
Group Name	Utilities	
	Join requested	
Accept		
ept" to join the g	group. If successful	l, the wind

7



Step	Action				
	is shown:				
				\$	🔌 🗟 100% 🛢 14:51
		\equiv Group Information	ו		
		- Back to User Information			
		Group Name	Utilities		
					_
		Group Managment			
		Utilities join accepted			- 1
			O	¢.	
		View Members		Leave Group)

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





Step	Action					
9		w Members" now sl user is NOT an adn		lightly	y different wi	ndow
					ቆ 🔌 🗟 100% 🛢 15:22	
		\equiv User Management				
		N User	Configs	Trends	Calchecks	
		00 quality@procomsol.com 01 support@procomsol.com	19 0	0	11 3	
			Back			

6.8.4 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 taps the "Group Management" button to
	get to the Group Information window.



Step	Action				
		F		🕯 🔌 🗟 100% 🛢 16:04	
		\equiv Group Informatic	n		
		← Back to User Informatio	'n		
		Group Name	None		
		Create New		Join Existing	
	Tap "Joir	Existing" to join	in an existing	g Group.	
2	Enter the prompt.	Email Address	of the Group	Administrator in	the



Step	Action			
		Group Information		∦ 🔌 🗟 100% 🛢 16:04
		Back to User Information		
		Group Management		
		Enter Group Admin Email Ad	ddress	
		support@procomsol.com		
		Cancel	O	۲
		the	and	to >
		1 2 3 4	5 6 7 8	9 0 Del
		q [*] w [×] e [*] r ⁼	$\mathbf{t}' \mathbf{y} \mathbf{u}' \mathbf{i}^{*}$	o p 🛛
		a s d f	g [*] h [*] j [*] k	Done
		ŶZXĊ	v b n m	,! .? �
		Ctrl !1©	English (US)	
	Tap "Ok	" when done.		

3 A list of the Groups that this email address is associated with will then be displayed. Select the Group you wish to join.



Step	Action				
		■ Group Ir	formation		∦ 🔌 🕾 100% 🛢 16:04
		← Back to Use	r Information		
		Group Name	None		
			Multiple Gro Group	oups, Select to join	
			Utilities		
			Car	ncel	
		Cre	eate New	Join Existi	ina

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

(F)	🗚 🔌 🗟 100% 🛢 16:06
\equiv User Information	
← Back to Settings	
Email Address	ddlibrarian@procomsol.com
Group Name	Group Join Requested
	Group Management
Group Managment	port@procomsol.com
	Ok
Update Settings	Back

Now this user must wait until the Admin acknowledges the Join



Step	Action
	request.
4	The Admin user goes to the User Management window by tapping Group Management->View Members. The requesting user is now shown in the list with set to "Yes".
	🖬 🔹 🖏 🖘 100% 🛙 16:07
	User Management

					* 🔌 🕾 10	0% 16:0
	📃 User Manageme	nt				
Ν	User	Configs	Trends	Calchecks	State	Pendir
00	quality@procomsol.com	19	0	11	Enabled	No
01	support@procomsol.com	0	0	3	Enabled	No
02	ddlibrarian@procomsol .com	1	0	1	Enabled	Yes
	Invite User			Back		

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



Step	Action		
5		☐ E Group Informatic	∦ ६ হি.07 ॥ १६.07 ॥ १६.07
		← Back to User 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.



tep	Actio	n
step	Actio	r

 ✓ * ¥ € 100 Information ✓ Back to User List Group Name Utilities User Name ddilbrarian@procomsol.com Disable Group Admin User ddlibrarian@procomsol.com accepted into Utilities 0k 	etion			
 ← Back to User List Group Name User Name ddlibrarian@procomsol.com Disable Group Admin User ddlibrarian@procomsol.com accepted into Utilities 				\$ 🔌 🗟 100% 🛢 16:08
Group Name Utilities User Name ddlibrarian@procomsol.com Disable Group Admin User ddlibrarian@procomsol.com accepted into Utilities		up Information	n	
User Name ddlibrarian@procomsol.com Disable Group Admin User ddlibrarian@procomsol.com accepted into Utilities	← Back	to User List		
Disable Group Admin User ddlibrarian@procomsol.com accepted into Utilities	Group Na	me	Utilities	
Group Admin User ddlibrarian@procomsol.com accepted into Utilities	User Nam	ne	ddlibrarian@procomsol.com	
User ddlibrarian@procomsol.com accepted into Utilities			Disable	
	Group	Admin		
Ok	User do	llibrarian@proco	msol.com accepted into Utilities	
			Ok	
Back				

7 The Pending status is now no for the added user:

ty@procomsol.com rarian@procomsol ort@procomsol.com	Configs 19 1 0	Trends 0 0	Calchecks 11 1 3	State Enabled Enabled Enabled	No
rarian@procomsol	1	0	1	Enabled	No
	0	0	3	Enabled	No
					Invite User Back



6.8.5 Cloud and Saved Configurations

Once the user 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.

menu to l sample.	bring up the S	Saved Configu	rations w	indow. Below is a * ২ জ 100% 🛙 16:08
	\equiv Saved Conf	igurations		
	N Tag	Model	Date	Location
	00 R-0301-TEMP3	644	2022-03-08	-
	01 R-0301-TEMP3	644	2022-03-09	-
	02 R-0301-TEMP3	644	2022-03-09	-
	03 R-0301-TEMP3	644	2022-03-09	-
	04 R-0301-TEMP3	644	2022-03-09	-
	05 FT106-1	EJA (Software Download) LC1	2022-03-01	-
	06 FT106-1	EJA (Software Download) LC1	2022-03-17	*
	07 R-0301-TEMP3 08 FT106-1	644 EJA (Software Download)	2022-06-08	
	Mana	ge	Browse	
The icon		^{ge} tion column ha		
	s in the Locar	tion column ha	ive specia	l meanings:
▲ (s in the Loca Configuration		ive specia e Cloud o	l meanings: nly



Step	Action				
		Saved Config	urations	* *	হ 100% 🛢 16:09
		N Tag	Model	Date	Function
		00 R-0301-TEMP3	644	2022-03-08	X ↓
		01 R-0301-TEMP3	644	2022-03-09	X ↓
		02 R-0301-TEMP3	644	2022-03-09	X ↓
		03 R-0301-TEMP3	644	2022-03-09	X I
		04 R-0301-TEMP3	644	2022-03-09	X I
		05 FT106-1	EJA (Software Download) / LC1	2022-03-01	X 🖡
		06 FT106-1	EJA (Software Download) / LC1	2022-03-17	X ↓
		07 R-0301-TEMP3	644	2022-06-08	X 🕇
		08 FT106-1	EJA (Software Download)	2022-05-23	X 🕇
		Select		All	

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

X Delete the configuration

• Download the configuration from the Cloud to the local device

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				
		▲ტ <i>\$</i>	Course the second		🖇 🔌 🕾 100% 🛢 09:20
		N Tag 00 FT106-1	Model EJA (Software Download) /	Date	Function
		01 R-0301-TEMP3	LC1 644	2022-03-08	X I
		02 R-0301-TEMP2	644	2022-03-00	× •
		03 R-0301-TEMP	Select operation	on	X I
		04 R-0301-TEMP	Upload All		X I
		05 R-0301-TEMP	Download All		X I
		06 FT106-1	Delete All		X I
		07 R-0301-TEMP			X 🕇
		08 FT106-1			X 🕇
			Cancel		
		0-1-			

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 the "Select" button.



Step	Action				
		⊑ Saved Configu	urationa	* a	≰ 🗟 100% 🛢 16:08
				Data	1
		N Tag	Model	Date	Location
		00 R-0301-TEMP3	644	2022-03-08	
		01 R-0301-TEMP3	644	2022-03-09	
		02 R-0301-TEMP3	644	2022-03-09	-
		03 R-0301-TEMP3	644	2022-03-09	-
		04 R-0301-TEMP3	644	2022-03-09	-
		05 FT106-1	EJA (Software Download) / LC1	2022-03-01	-
		06 FT106-1	EJA (Software Download) / LC1	2022-03-17	
		07 R-0301-TEMP3	644	2022-06-08	
		08 FT106-1	EJA (Software Download)	2022-05-23	
		Manage		Browse	

6.8.6 Cloud and Cal Checks

Once the user joins a Group, he now has access to all the Cal Checks saved by the Group members. These will now show in the Cal Check window along with the user's own saved Cal Checks. The Cal Checks window now has more information and functions. This section describes the new information and functions.

Step	Action
1	Tap the "Cal Checks" window item on the Hamburger menu to bring up the Cal Checks window. Below is a sample.



	F			**	🗟 100% 🛯 16:09	
	\equiv Calibration Check					
	N Tag	Model	Date	Туре	Location	
	00 R-0301-TEMP3	644	2022-03-15	As 0	-	
	01 R-0301-TEMP3	644	2022-05-20	As Found		
	02 FT106-1	EJA (Software Download)	2022-05-20	As Found		
	03 R-0301-TEMP3	644	2022-05-23	As Found		
	04 FT106-1	EJA (Software Download) / LC1	2022-06-14	As Found		
	05 FT106-1	EJA (Software Download) / LC1	2022-06-14	As Found		
	06 FT106-1	EJA (Software Download) / LC1	2022-06-15	As Found		
	Ма	nage	New Calib	ration Che	ck	
The icons		nage ation column				
-	in the Loc	ation column	have spec	cial n		
Ca	in the Loc al Checks i	ation column	have spec cloud o	cial n nly	neaning	
	in the Loc al Checks i al Checks s	ation column	have spece Cloud o on this do	cial n nly evice	neaning only	



Step	Action					
		E Calibratio	n Chaol		**	হ্ন 100% 🛿 16:09
		N Tag	Model	Date	Туре	Function
		00 R-0301-TEMP3	644	2022-03-15	As 0	X I
		01 R-0301-TEMP3	644	2022-05-20	As Found	x
		02 FT106-1	EJA (Software Download)	2022-05-20	As Found	X 🕇
		03 R-0301-TEMP3	644	2022-05-23	As Found	x
		04 FT106-1	EJA (Software Download) / LC1	2022-06-14	As Found	x
		05 FT106-1	EJA (Software Download) / LC1		As Found	x
		06 FT106-1	EJA (Software Download) / LC1	2022-06-15	As Found	x
		Se	lect		All	

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

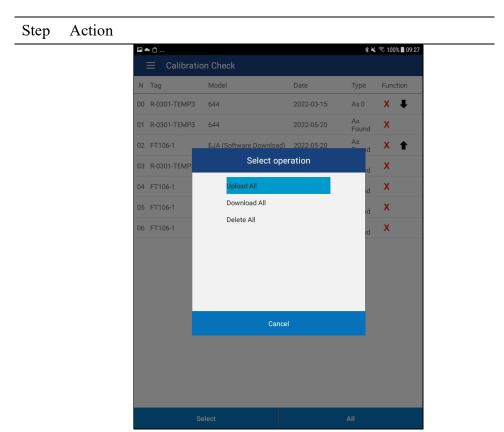
X Delete the Cal Check

Download the Cal Check from the Cloud to the local device

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

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





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

4 To return to the normal Cal Check window display, tap the "Select" button.



Step	Action					
		📼 📃 Calibratio	n Chook		**	হি 100% 🛢 16:09
		N Tag	Model	Date	Туре	Location
		00 R-0301-TEMP3	644	2022-03-15	As 0	
		01 R-0301-TEMP3	644	2022-05-20	As Found	
		02 FT106-1	EJA (Software Download)	2022-05-20	As Found	
		03 R-0301-TEMP3	644	2022-05-23	As Found	
		04 FT106-1	EJA (Software Download) / LC1		As Found	
		05 FT106-1	EJA (Software Download) / LC1		As Found	
		06 FT106-1	EJA (Software Download) / LC1	2022-06-15	As Found	
				Now Or U	aration Ch-	ook -
		Mai	nage	New Calib	pration Che	eck





Appendix A

Troubleshooting Guide

Problem: Will not communicate

Hardware Check:

Verify the following:

- 1. Paired to correct mobiLink
- 2. You are using a power hub that is properly terminated.

3. The Bluetooth button on the mobiLink was pressed and the Bluetooth LED is on. This must be done before starting DevComFF.Droid.

- 4. You are connected using the FF terminals on the mobiLink, not the HART terminals.
- 5. mobiLink batteries are fresh.



Appendix B

Contact Information

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