

# DataMan<sup>®</sup> Setup Tool Reference Manual

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# Symbols

The following symbols indicate safety precautions and supplemental information:

WARNING: This symbol indicates a hazard that could cause death, serious personal injury or electrical shock.

**CAUTION**: This symbol indicates a hazard that could result in property damage.

(i) Note: This symbol indicates additional information about a subject.

 $\bigvee$  Tip: This symbol indicates suggestions and shortcuts that might not otherwise be apparent.

# **Getting Started**

## About the DataMan Setup Tool



Using the DataMan Setup Tool, you can access a wide range of options involving DataMan readers,

including reviewing images of the barcodes being read live, or setting up the reader to transfer no read images via FTP for later review.

This powerful software simplifies initial reader setup and changing parameters of the readers you use. The DataMan Setup Tool is a common platform across all models. It simplifies deployment by putting the most common controls in a single page, allowing you to see how different options affect the reader in real time.

## Overview

To be able to connect to your reader or base station on your computer, you must perform the following steps:

- 1. Install the DataMan Setup Tool on your computer.
- 2. Select the appropriate connection type and connect the appropriate cabling.
- 3. Power on your device(s).

The user interface is built up of the following main components:

**Backstage**: Upon starting the **DataMan Setup Tool**, the so-called backstage opens. It provides a means to start certain operations like starting to work on the devices (connecting to them, monitoring them, monitoring the data of the selected device or devices), or process monitoring, RTM, comparing configurations, or listing currently available user-defined custom groups for editing.

This page is also accessible via the **Home** (Home button.

Example:

#### **Getting Started**

S 7 9 0 W			DataMan S	SetupTool			
Home View							Q & A Help
Connect	😋 Refresh 👻 Grouping Interfa	ce Type 👻 Fi	Iter Filter	× 📩 📩	View Hidden (4)		
Maintenance	Name	Туре	Address	Firmware Vers	ion		Status 🔺
Repair & Support	A Network						
Backup	- M260-abenko	DM260	10.86.80.14	5.7.0			Discovered
Restore	- M260-aremenyi	DM260	10.86.80.133	5.7.0			Discovered
Update Firmware	DM260-gabor	DM260	10.86.80.8	5.7.0			Discovered
Reader Groups	- M262-3CF612	DM260	10.86.80.45	5.7.0			Discovered
Image Playback	- M262-aremenyi	DM260	10.86.80.178	5.7.0			Discovered
Options	- M302-abenko	DM300	10.86.80.63	5.7.0			Discovered
About	DM302-TKAROLY	DM300	10.86.80.18	5.7.0			Discovered
Exit	- OM363-1A1453XN018104	DM360	10.86.80.96	5.7.0			Discovered
	- M363-1C8BBC	DM360	10.86.80.139	5.7.0_rc3			Discovered
	- M474-4DA646	DM470	10.86.80.35	6.0.1_a9			Discovered
	DM474-4DA65C	DM470	10.86.80.33	6_0_1			Discovered
	- DM474-4DB33C	DM470	10.86.80.58	6.0.1_a9			Discovered
	DM474-4DB5D2	DM470	10.86.80.24	6_0_1			Discovered
	- DM474-4DC28A	DM470	10.86.80.25	6_0_1			Discovered
	DM474-4DC296	DM470	10.86.80.38	6.0.1_a9			Discovered
	DM503-41DAEC	DM503	10.86.80.91	5.7.0			Discovered
	Childhood A00A E0	DM0000D	10 00 00 04	E / / ~~0			Discoursed
					Compare Configurations	Process Monitor	Connect

You can navigate between the different backstage pages by selecting the horizontal tab headers on the left:



**Document**: A new *document* opens when the desired operation on the backstage is selected (e.g. you selected a device to connect to and clicked Connect). The backstage control is automatically hidden, the newly opened document appears and gets the focus. If more than one documents are open (e.g. there are more device connections), each document gets its own tab. Switch between the different documents by clicking on their respective tab.

Example:

#### **Getting Started**

Litter       Actions       Settings       System       Vew       Q.8.A       Help ✓         Q.8.A	🎬   🗲 💻 🕘 📕		DataMan Setup	Tool - DM474-4D/	4646 [10.86.80.3	5]	- 9	23
QLA       4       2       1000000000000000000000000000000000000	Home Actions Settings System	View					Q&A Help	~
Optimize Image	Q&A # 🗙	DM260 O DM474-4D	A646 O DM8600-1349A	4 0	4 Þ ×	Image Panel	ц	$\times$
<ul> <li>Application Type/ What can Lob in the Optimize Image is a squired mage to a fife?</li> <li>How do I save in acquired mage to a fife?</li> <li>How can Luse the Tune button?</li> <li>How can Luse the Tune button?</li> <li>How can Luse the Tune button?</li> <li>What happens f Liseket Enable Read Performance for the first button?</li> <li>What happens f Liseket Enable Read Performance for the first button?</li> <li>How do I adjust the image focus?</li> <li>How and Luse the Tran Code Merry</li> <li>What a symbol Diagnostics (relative Sights?)</li> <li>What symbol Diagnostics (relative Sights?)</li> <li>What symbol Diagnostics (relative Sights?)</li> <li>When should Luse the Tran Code</li> <li>Mitton?</li> <li>What as ymbol Diagnostics (relative Sights?)</li> <li>What symbol Diagn</li></ul>	Optimize Image	Optimize Image				🔎 🔎 🧼 🍥 Reset ROI 🧧	🗸 🛃 Quarter 🕞	: .
exposure? (e) How do I adjust the image focus? (feature key requed)? (feature key requed	<ul> <li>Optimize Image</li> <li>What can I set under Application Type?</li> <li>What can I do in the Optimize Image step?</li> <li>How do I save an acquired Image to a file?</li> <li>How can I use the Live button?</li> <li>How can I use the two button?</li> <li>How can I use the true button?</li> <li>What happens if select Tune Light Banks?</li> <li>What happens if select Exclude Exhaustive Tuning?</li> <li>What happens if select Exclude Ambient Light Results?</li> <li>How can I use the Test button?</li> <li>What happens if select Exclude Ambient Light Results?</li> <li>How can I use the Read Performance pane for?</li> <li>How do I adjust the Image</li> </ul>	Application Type Undefined Application Steps Code Details Application Details Format Data Inputs / Outpu	Basic Advanced	Read Performance         1           10         9           9         8           7         6           5         5           00000         4	Tuning Results			
Focus Focus Focus 454 mm	How do I adjust the image focus?     How can I quickly turn on or off al of the reader's lights?     What is Symbol Diagnostics (feature key required)?     When should I use the Train Code button?	Communicatio ns Save Settings	High Frequency Light	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	15 10	Exposure (JIS) (*) - (1) Gain Factor (*) - (1) Focus (*) - (1)		iopter
					2		101	

The Image Panel pane is always displayed by default, on the right hand side.

The currently active document's title is shown in **bold** if it has the focus. You can switch between different documents by clicking on the related tab. Documents can be closed by clicking the <sup>(1)</sup> in the upper left corner of the tab.

**Ribbon bar**: The upper part of the window provides place for the context sensitive ribbon bar, the items (buttons, checkboxes, etc.) differ for each document type. The ribbon bar shows controls for the currently active document.

Example:

Home Ac	ions Se	attings S	ystem	View											Q & A	Help	^
Back Forward	Coptimize Image	Test Mode Settings	Read Setups	Application Details	Symbology Settings	Data Validation	Code Quality	Data Formatting	Scripting	Buffering and Transfer	Communication Settings	System Settings	Table View	Setup 1000 👻			
History	-				•		Dans	*			÷ -	•		Active Dead Set			

The ribbon bar is context-sensitive, which means that its items (buttons, checkboxes, etc.) is different for each document type and they show controls for the currently active (selected) document.

The following sections provide more details about the installation of the software and the components of the GUI.

# Installation and Layout

In this section, you will learn how to install the DataMan Setup Tool, how it looks like and how the layout can be customized.

## Installing the DataMan Setup Tool and Connecting the Reader

Perform the following steps to install the DataMan software on the PC you will use to configure the settings for each DataMan reader:

- 1. Check the DataMan *Release Notes* for a full list of system requirements.
- Download the DataMan Setup Tool from <a href="http://www.cognex.com/support/dataman">http://www.cognex.com/support/dataman</a> and follow the on-screen steps.

If the installation utility does not start automatically, double-click on the setup.exe file in the installation folder.

- 3. Connect your DataMan reader to your PC.
- Choose Start->Cognex->DataMan Software vX.X.X->Setup Tool to launch Setup Tool (where vX.X.X stands for the relevant revision of the software).
- In the Connect menu, click *Refresh* to have Setup Tool auto-detect the DataMan readers connected to communication ports on your PC.
   Any DataMan reader available over your network will appear in the Connect menu.
- 6. Select a COM port listing or Network device listing corresponding to your DataMan reader and click Connect.

For the most up-to-date information, consult the English-language documentation. The translated documents supplied with some releases may not include recent updates.

## Tabs

The tabs of the DataMan Setup Tool are context sensitive. Upon first opening the DataMan Setup Tool, you will see two tabs: **Home** and **View**.

🔛 🕴 💻 🕘 💷	_		DataMan Se	etupTool	 0.8 A	23 Help
Connect	GRefresh - Grouping Inter	face Type 👻 I	Filter Filter	🗴 📩 📋 View Hidden (0)		
Maintenance Repair & Support	Name	Туре	<ul> <li>Address</li> </ul>	Firmware Version	Status	
Backup	DM60-abenko	DM60	10.86.80.5	5.7.0	Discove	ered
Restore	DM60-aremenyi	DM60	10.86.80.100	5.7.0	Discove	ered
		D1 1000	10 00 00 0		~	

After selecting a device and connecting to it, more tabs will be available.

🏝   🕴 💻 🕘 📓			DataMan SetupToo	I - DM474-4DA646 [10.86.80.35	j]	- E	53
Home Actions Settings	System View					Q&A	Help 🗸
DM474-4DA646 0				4 Þ ×	Image Panel		$_{^{\rm t}}$ $\times$
Optimize Image					🔎 🔎 💮 Reset ROI 📑 🗸 🛃 Quarte	з <b>-</b>	
Application Type	Basic Advanced			•			
Undermed	Train Code After	Read Performance	Tuning Results	+			
Application Steps	Tuning	10					
🖄 Optimize Ima	Live -						

And the tabs also change based on the document you are currently using. For example, when using the **Process Monitor**, you will have these tabs:

S 🖉 🗐 🖉 🛙	a			DataMan SetupTool	c	-		23
Home Process	Monitor View				c	A & G	Help	~
Show Read Statistics	Select All	Reset Cell Layout	Clear	Switch to Config Mode				
Display	Cell Selection	Layout	Statistics	Switch Mode				

The tabs and their functions will be described later in this document with their respective views.

## Layout

The DataMan Setup Tool makes it possible for users to organize the layout to fit the computer screen or to make the desired components larger and make the less used ones smaller.

## **Layout Customization**

As discussed in the previous section, the layout of the DataMan SetupTool is customizable. The components of the application are:

- organizable to tabs
- pinnable to remain visible
- unpinnable to auto-hide on mouse leave
- · dockable to different areas of the main window
- undockable from the application to a separate window

🎬   🕴 🗐 😃 📃 🛄 DataMa	an SetupTool 👝 🐵 🕱
Hame Edit Groups View	Q&A Help 🔨
Save New Remove Rename Group Node Group Edit Nodes Edit Nodes Group	Grouping Interface Type Filter Nodes Nodes Grouping Interface Type Filter Nodes Discovered Devices Marken Discovered Devices Marken Marken Marken Discovered Devices Marken Mar
💭 DM262 🔕 4 Þ ×	DM363 🔇 4 Þ × 🗐
Dptimize Image	Optimize Image
Ive       I	Ive
Name Type Address Name	Name Type Address Name
New Grouping	New Grouping Serial Serial COM 3

### Installation and Layout

You can drag and drop the grabbed documents wherever you wish, but the ribbon bar under View also offers buttons for tiling the windows horizontally or vertically:



# Using the DataMan Setup Tool

This section describes how to connect to a device through the DataMan Setup Tool, and it contains information on the most essential functions that you can use when setting up your reader and reading codes.

## Connect

The **Connect** page provides the ability to connect to a single device or several devices at the same time. The devices are shown in a tree structure. The tree structure shows additional information for each device in separate columns.

The additional pieces of information shown are the following:

🔛 🖡 🖳 🕘 📓	1	2 3	4	1 DataMan Set	upTool 6 7	89
Home View					1 1	
Connect	Grouping Interface T	Type - Filter Filter	💌 💼 📩 🗌 View Hidden (4)		<b>i</b>	<u> </u>
Maintenance	Name	Type Address	Firmware Version	Status	Open in Documents Interface	MAC Address MST Group
Repair & Support	<ul> <li>Network</li> </ul>					
Backup	- 🧊 DM260-abenko	DM260 10.86.80.14	5.7.0	Discovered	Network	00-D0-24-1C-AB-9C
Restore	- 🧊 DM260-aremenyi	DM260 10.86.80.133	5.7.0	Discovered	Network	00-D0-24-3D-14-C0
Update Firmware	- 🌍 DM260-gabor	DM260 10.86.80.8	5.7.0	Discovered	Network	00-D0-24-1C-BE-C6
Reader Groups	- 100 DM262-3CF612	DM260 10.86.80.45	5.7.0	Discovered	Network	00-D0-24-3C-F6-12
Image Playback	- 🧊 DM262-aremenyi	DM260 10.86.80.178	5.7.0	Discovered	Network	00-D0-24-3D-16-86
Options	- M302-abenko	DM300 10.86.80.63	5.7.0	Discovered	Network	00-D0-24-13-A9-B6
About	- MI302-TKAROLY	DM300 10.86.80.18	5.7.0	Discovered	Network	00-D0-24-18-C3-D2
Exit	- 🌮 DM363-1A1453XN018104	DM360 10.86.80.96	5.7.0	Discovered	Network	00-D0-24-1C-88-C2
	- M363-1C88BC	DM360 10.86.80.139	5.7.0_rc3	Discovered	Network	00-D0-24-1C-88-BC
	- DM474-4DA646	DM470 10.86.80.35	6.0.1_a9	Discovered	Network	00-D0-24-4D-A6-46
	- 100 DM474-4DA65C	DM470 10.86.80.33	6_0_1	Discovered	Network	00-D0-24-4D-A6-5C
	- 100 DM474-4DB33C	DM470 10.86.80.58	6.0.1_a9	Discovered	Network	00-D0-24-4D-B3-3C
	- M474-4DB5D2	DM470 10.86.80.24	6_0_1	Discovered	Network	00-D0-24-4D-B5-D2
	- 10 DM474-4DC28A	DM470 10.86.80.25	6_0_1	Discovered	Network	00-D0-24-4D-C2-8A
	- 100 DM474-4DC296	DM470 10.86.80.38	6.0.1_a9	Discovered	Network	00-D0-24-4D-C2-96
	- 10503-41DAEC	DM503 10.86.80.91	5.7.0	Discovered	Network	00-D0-24-41-DA-EC
	- DM8000Bose-409A50	DM8000Base 10.86.80.94	5.4.4_rc8	Discovered	Network	00-D0-24-40-9A-50
	- DM8000BaseBT-110268	DM8000BaseBT 10.86.80.23	5.4.4_sr1_rc5	Discovered	Network	00-D0-24-11-02-68

- 1. Device name and icon
- 2. Device type
- 3. Device address (IP address or port)
- 4. Firmware version
- 5. Status (e.g. Discovered, Misconfigured, Conflicting, In use)
- 6. The reader is open in the linked document
- 7. Interface (e.g. Serial, Network, HID)
- 8. The NIC (MAC address) via which the device was discovered
- 9. The Primary reader Group the device belongs to in case of Multi-Reader Sync grouping

Click Refresh to refresh the list of available devices and their settings.

The tree and grid-like device list control provides the following options:

• Sorting: Each column in the grid can be sorted, both in an ascending and a descending alphabetical order, by

clicking on the column header. The sorting direction is shown by a triangle. For example:

Type . The triangle is shown only in the sorted column. By default, the **Type** column is sorted in an ascending order.

• **Grouping**: You can use different groupings when showing the discovered devices. You can choose from built-in groupings, but you can also define your custom groupings. The built-in groupings are the following:



They are based on the same data as the data in the related column of the grid. Only one grouping can be selected at a time using the designated combo box. The default grouping is *None*.

For more details on reader groupings, see the Device Grouping section.

- Filtering: The Filter... It text field filters the list of discovered devices based on the characters typed in. The list of devices gets updated based on filtering on each key stroke. The filtering text can be cleared by deleting the filter text or clicking on the clear (IN) button. The filter text is matched to each column in the device list grid and only those rows remain visible that have a column which contains the text provided in the filter text.
- Expanding/collapsing the device tree: The displayed tree of devices can be collapsed and expanded fully, as

well as on a node-by-node basis. Full collapse or expand can be done with the designated buttons (expand: 🧮,

collapse: 🔽 ), whereas node-by-node collapse or expand can be done by clicking on the desired node's

collapse/expand triangle (

• Viewing hidden devices: You can view the hidden devices when the Wiew Hidden (2) checkbox is selected.

After selecting one or more devices (click/Ctrl-click/Shift-click), a connection can be initiated by clicking the **Connect** button or double-clicking on a device. Connection gets initiated to the selected device(s) and separate documents are opened.

Upon connecting to a device, a *device document* is opened, it gets its own tab. For such a device, the **Status** column will show "In Use" on the device list pages. The connection gets closed when its document tab is closed. If the device reboots (e.g. because of a firmware update), the document tab remains open, the progress bar and messages inform you about the current state of the device. If a connection is lost, the document tab does not get automatically closed, an overlay message informs you about this event. If the reader goes offline, the overlay with the message stays there until the device comes back online or until you close the document tab.

### **Process Monitor**

You can use the **Process Monitor** to check the operation of one or more devices at the same time with only a minimal interruption in their work. This page can be accessed via <u>Connect</u>.

			DataMan S	etuplool			
Home View		-					Q&A H
connect	Grouping Interface	Type - F	liter [Filter ]		View Hidden (4)		
Maintenance Repair & Support	Name	Туре	<ul> <li>Address</li> </ul>	Firmware Versi	ion		Status
	DM260.abonko	DM260	10 86 80 14	570			Discover
Backup	DM260-aromonyi	DM260	10.86.80.133	5.7.0			Discovere
Restore	DW200-arenienyi	DIVIZOU	10.00.00.155	5.7.0			DISCOVER
Update Firmware	DM260-gabor	DM260	10.86.80.8	5.7.0			Discovere
Reader Groups	DM262-3CF612	DM260	10.86.80.45	5.7.0			Discovere
mage Playback	DM262-aremenyi	DM260	10.86.80.178	5.7.0			Discovere
ptions	- M302-abenko	DM300	10.86.80.63	5.7.0			Discovere
oout	- M302-TKAROLY	DM300	10.86.80.18	5.7.0			Discover
it	DM363-1A1453XN018104	DM360	10.86.80.96	5.7.0			Discover
	- M363-1C8BBC	DM360	10.86.80.139	5.7.0_rc3			Discovere
	- DM474-4DA646	DM470	10.86.80.35	6.0.1_a9			Discovere
	- DM474-4DA65C	DM470	10.86.80.33	6_0_1			Discover
	- DM474-4DB33C	DM470	10.86.80.58	6.0.1_a9			Discover
	- DM474-4DB5D2	DM470	10.86.80.24	6_0_1			Discover
	- 100 DM474-4DC28A	DM470	10.86.80.25	6_0_1			Discovere
	- 10 DM474-4DC296	DM470	10.86.80.38	6.0.1_a9		-	Discovere
		DM503	10.86.80.91	5.7.0			Discovere
			10 00 00 04	E / /0		<b>V</b>	Discourse
					Compare Configurations	Process Monitor	Connect

Selecting one or more devices from the list and clicking the button opens a single **Process Monitor** document where the monitored data of the selected device or devices is shown.

#### Using the DataMan Setup Tool

Itore     Poces Monte     Vew     O.A. Help     New       Stow Red Statistice     Select Al     Iteratical Layout     Iteratical Layout     Iteratical Layout       Display     Cell Selection     Layout     Statistics     Switch Mode	🖀   🗲 💻 🛈 🕷	1			DataMan SetupTool	- 9	23
Stor Reed Statistic     Balanci Al     Image: Balanci Al </th <th>Home Process</th> <th>Monitor View</th> <th></th> <th></th> <th></th> <th>Q&amp;A Help</th> <th>~</th>	Home Process	Monitor View				Q&A Help	~
Display       Cell Selection       Layout       Statistics       Switch Mode         Process Monitor 0       Image: Cell Selection       Image: Cell Selection<	Show Read Statistics	Select All	COT + +	LØ Clear	Switch to Config Mode		
Process Monitor 0       III P × 10000000000000000000000000000000000	Display	Cell Selection	Layout	Statistics	Switch Mode		
DM260-abenko         Total Triggere       18456       Total Radia       187       18456       Total Radia       187       18456    <	Process Monitor O					4 Þ	×
Total Triggers       18456         Total Tragers       18456         Total Rada       16219         % Read       87.8%         Total Noreads       2237         % Noreads       12.12%         Passed Validations       0         Buffer Overflow       0         Buffer Overflow       0         Tited Toveflow       0							It Hist
Total Triggers       18456         Total Reads       16219         % Read       87.88%         Total Norreads       2237         % Norreads       22.12%         Passed Validations       0         Failed Validations       0         Buffer Overrun       0         Trigger Overrun       0	DM260-abenko						ory
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Total Triggers       18456         Total Reads       16219         % Read       87.88%         Total No-reads       2237         % No-reads       2237         % No-reads       12,12%         Passed Validations       0         Failed Validations       0         Buffer Overflow       0         Trigger Overrun       0         Item Count       0							
Total Triggers     18456       Total Reads     16219       % Read     57.83%       Total Norreads     2237       % Norread     12.12%       Passed Validations     0       Failed Validations     0       Buffer Overflow     0       Trigger Overrun     0       Item Court     0							
Total Triggers       18456         Total Reads       16219         % Read       87.83%         Total No-reads       2237         % No-read       12.12%         Passed Vioitations       0         Buffer Overflow       0         Trigger Overnun       0         Item Count       0							
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Item Count 0	Butter Overflow	0					
	I rigger Overrun	0					
	Item Count	U					
							-

If more than one devices were selected, all will be shown in the Process Monitor, but you can add a new device to the Process Monitor by clicking on **Add to Process Monitor** on the Connect page, which is available if you click the



downward arrow in the Process Monitor button:

Read more about this option in Multi-reader Process Monitor.

### **Multi-reader Support**

The DataMan Setup Tool allows connections to a number of readers simultaneously. You can select one or more devices to connect to on the *Connect* backstage page.

#### **Multi-reader Process Monitor**

The DataMan Setup Tool can show performance statistics of multiple DataMan readers in a single **Process Monitor** view. The **Process Monitor** backstage page displays readers that support such monitoring. Select one or more devices

```
Process Monitor +
```

and click the button to open a new Process Monitor document tab that displays real time statistics of the selected readers.

More than one DataMan readers can be monitored on a single Process Monitor tab. A statistics panel opens for all monitored readers and displays read and no-read count, percentage and other statistical data for the respective readers. The panels are arranged in a tiled style.

Example:

#### Using the DataMan Setup Tool

		DataMan SetupTool	- 0
me Process Monitor	View		Q&A Help
w Read Statistics Sele Sele Display Cell	ect All The sector and the sector an	Ø         Switch to Config Mode           Statistics         Switch Mode	
Process Monitor Ø			4 Þ
DM60-1BC318		DM60-A	
Total Triggers     C       Total Reads     C       % Read     C       Total No-reads     C       % No-reads     C       Passed Validations     C       Failed Validations     C       Buffer Overflow     C       Trigger Overrun     C       Item Count     C	D D 0,00% D 0,00% D D 0 0 0	Total Triggers1Total Reads1% Read100,00%Total No-reads0% No-read0,00%Passed Validations0Failed Validations0Buffer Overflow0Trigger Overrun0Item Count0	
DM303		DM363	
Dimodo			

You can turn displaying read results and statistical data on and off by clicking on the respective buttons on the ribbon bar: Show Read Results and Show Read Statistics.



Clear the read statistics in the selected panels any time during run time by clicking the **Clear Statistics** (<sup>Statistics</sup>) button on the ribbon bar. The buttons in the **Cell Selection** ribbon group make it easy to select multiple readers before doing mass actions:



More than one Process Monitor document tabs can be created, which show statistical data for different devices or device groups.

Note: One device can be opened in only one Process Monitor document at a time. Devices that are already opened in a Process Monitor document or opened for configuration are dimmed on the Process Monitor backstage page and are shown as In Use.

Process Monitor views can be closed by clicking on the 🚳 button on the left of the tab title. Titles of the tabs are auto-

generated but the tabs can be renamed.

Readers can be added to already open Process Monitor views. The **Process Monitor** button becomes a drop-down button if at least one Process Monitor view is started and the existing Process Monitor views are listed in the drop-down menu. You can add a reader to the existing view by clicking the **Add to** option.

Process Monitor	
Add toProc	ess Monitor

If more than one Process Monitor is open, you will see the list of available Process Monitors to which you can add the newly selected device.

Process Monitor	
Add toProc	ess Monitor
Add toProc	ess Monitor 2

Readers can be removed from Process Monitor views by clicking the 'X' button on the top-right corner, which appears when hovering the mouse over the individual statistics panels.

## **Compare Configuration**

Compare Configuration is a table view style tool used to set, copy, compare, or restore device configurations and settings, which enables users of multiple devices to quickly synchronize configurations or check for inconsistencies. Select multiple devices from the device list and click the **Compare Configuration** button to initiate the tool in a new document that opens.

<b>四</b>   手 匣 ④ 闢			DataMan	SetupTool			
Home View							Q&A Help
Connect	Grouping Interface Typ	Filter Filter		i 📩 🔲 View Hidder	1 (4)		
Maintenance	Name	Туре	Address	Firmware Version		Status	Open in Dc 🔺
Repair & Support	Network						
Backup	DM260-abenko	DM260	10.86.80.14	5.7.0		Discovered	
Restore	DM260-aremenyi	DM260	10.86.80.133	5.7.0		Discovered	
Undata Ermuara	DM260-gabor	DM260	10.86.80.8	5.7.0		Discovered	
Opuale Filliware	M262-aremenyi	DM260	10.86.80.178	5.7.0		Discovered	
Reader Groups	M302-abenko	DM300	10.86.80.63	5.7.0		Discovered	
Image Playback	M302-TKAROLY	DM300	10.86.80.18	5.7.0		Discovered	
Options	OM363-1A1453XN018104	DM360	10.86.80.96	5.7.0		Discovered	=
About	- M363-1C8BBC	DM360	10.86.80.139	5.7.0_rc3		Discovered	
Exit	DM474-4DA646	DM470	10.86.80.35	6.0.1_a9		Discovered	
	M474-4DA65C	DM470	10.86.80.33	6_0_1		Discovered	
	M474-4DC28A	DM470	10.86.80.25	6_0_1		Discovered	
	M474-4DC296	DM470	10.86.80.38	6.0.1_a9		Discovered	
	DM503-41DAEC	DM503	10.86.80.91	5.7.0		Discovered	
	DM8000Base-409A50	DM8000Base	10.86.80.94	5.4.4_rc8		Discovered	
	DM8000BaseBT-110268	DM8000BaseBT	10.86.80.23	5.4.4_sr1_rc5		Discovered	
	DM8000BaseBT-1A1348XN015950	DM8000BaseBT	10.86.80.12	5.4.4_sr1		Discovered	
	M8050-1C144C	DM8050	10.86.80.51	5.4.4_sr1		Discovered	
	M8050-41C822	DM8050	10.86.80.15	5.4.4_sr1		Discovered	
	M8600-1349A4	DM8600	169.254.170.252	5.4.4_RC7		Waiting for IP address	s asignment 🔹 👻
			11				
					Compare Configurations	Process Monitor	Connect

In the new document that opens, the table view lists all settings of the selected devices, while the ribbon menu on top allows you a number of actions relating to these settings.

	Data	Man Setup I ool			- E 8
tome Compare View					Q&A Help
Compare Configurations 1 Ø					4 Þ ×
	DM260-gabor		DM474-4DA646		^
	Global Settings / Setup 0 🔡	Global Settings / Setup 0	Setup 1	Setup 2	
Read Setup					
Name	Setup 0	Setup 1000000000000000000000000000000000000	Setup 0	Setup 2	
Enabled	<b>v</b>	V	~	V	
System Info					
Device	DM260X				
Serial number	1A1524XN007950	1A1729PP268425			
Device name	DM260-gabor	DM474-4DA646			
MAC address	00-D0-24-1C-BE-C6	00-D0-24-4D-A6-46			
Firmware version	5.7.0	6.0.1_a9			
Application Loader version	1.16.0.49				
Failsafe version	1.10.0.47				
Installed hardware	Liquid Lens	Liquid Lens			
Feature keys	IDMax, ImageDownload, IDQuic	IDMax, ImageDownload, IDQuic			
Bootloader version		2016.09-103-g990e348			
OS Version	4	DM470_v6.0.1_a9			
Tuning					
Train Code	V				
Tune Light Banks	<b>v</b>	V			
Force Exhaustive Tuning	V				
Optimize Focus	<b>v</b>	V			
Exclude Ambient Light Results	Γ	<b>F</b>			
Test Mode Settings					
Test Mode	<b></b>	<b>F</b>			
Automatic Triggering Enabled	<b>v</b>				
Trigger On [µs]	20 000	20 000			
Trigger Off [µs]	500 000	1 980 000			
Enable Inputs					
Enable Outputs		<b>F</b>			
Number of Triggers to be Accepted	T	1			
Light and Imager Settings					
Trigger Settings					
Trigger Type	Single (external)	Continuous (external)			
4 Motion Detection	a da tradición de la construcción de la construcció				~

For more detailed information on Compare Configuration and its features, look for the Q and A panel of the page itself.

## **Real Time Monitoring**

Real Time Monitoring (**RTM**) is a feature built into DataMan Setup Tool that allows for the collection and analysis of different kinds of data related to devices on the network and their readings and displaying this data in graphs. RTM can be connected to as a regular device on the Connect page.

#### Using the DataMan Setup Tool

🖼   🐔 💻 🙂 🖩			Datal	Man SetupTool		- •	23
Home View						Q&A	Help
Connect	Grouping Interface Typ	e 🔹 Filter	Filter	🛚 🎽 🏥 🗌 View Hidden (1)			
Maintenance Repair & Support	Name DM473-3D5E16	Type A DM470	Address 10.86.80.117	Firmware Version 6_0_1	Status Op Discovered	en in Documents	Int A Ne
Backup	- 000 DM473-3D7E92	DM470	10.86.80.7	6.0.1_a1	Discovered		Ne
Restore	DM473-3D7EA2	DM470	10.86.80.41	6_0_1	Discovered		Ne
Update Firmware	DM473-aremenyi	DM470	10.86.80.50	6.0.1_a1	Discovered		Ne
Reader Groups	- DM473-NORBI	DM470	10.86.80.16	6.0.1_a1	Discovered		Ne
Image Playback	DM474-3D7CE4	DM470	10.86.80.33	6.0.1_a1	Discovered		Ne
Options	CM8000Base-409A50	DM8000Base	10.86.80.94	5.4.4_rc8	Discovered		Ne
About	DM8000BaseBT-1A1348XN015950	DM8000BaseBT	10.86.80.71	5.4.4_sr1_rc4	Discovered		Ne
Exit	- 🥞 DM8050-22EE20	DM8050	10.86.80.85	5.4.4	Discovered		Ne
	- 🔨 DM8600-1349A4	DM8600	169.254.170.252	5.4.4_RC7	Waiting for IP address asignment		Ne
	- T DM8600-1C1DBA	DM8600	10.86.80.54	5.4.4_sr1_rc4	Discovered		Ne' =
	- T DM8600-41E178	DM8600	10.86.80.98	5.4.4	Discovered		Ne
	- <b>I</b> rtm-61	RTM Controller	10.86.80.61	5.7.0.0	Discovered		Ne
	tm-abenko	RTM Controller	10.86.80.45	2.0.0	Discovered		Ne
	tm-attila	RTM Controller	10.86.80.55	2.0.1	Discovered		Ne
	4			l.			•
					Compare Configurations Process Monitor	Connect	

Once connected to RTM, the ribbon menu allows setup and monitoring options. The target device for data acquisition, as well as the selection of the type of data collected, can be set up under **Configuration** on the ribbon menu. By default, RTM collects statistical data (Read rate, No-read count, average decode time, trigger count, trigger overrun, buffer overflow, and process control metrics, if enabled on the device).



For a more detailed description of RTM capabilities and options, refer to the Q and A help of RTM.

## **Application Steps Overview**

Upon connecting to a device, the following page opens:

🎬   🗲 💻 🙂 📕		DataMan SetupTool - DM474-4DA646 [10.86.80.35]	-	•	23
Home Actions Settings	System View		Q&A	Help	~
DM474-4DA646 0		d D 🗙 Image Panel		<b></b> д	$\times$
Optimize Image		🔎 🔎 🧇 💮 Reset ROI 😽 🗸	🧭 Quarter 🐳	•	;; Ŧ
Application Type Undefined • Application Steps Code Details Application Details Format Data	asic Advanced Truning Live	Read Performance         Tuning Results         •           10         •         •           9         •         •           7         •         •           6         •         •           5         •         •           9         •         •			
Communications Save Settings	HDR	3 2 1 0 55 50 45 40 35 30 25 20 15 10 5 0 Clear	+ 2000 + 232	μs 38 di 454 m	opter

On the left hand side you can see a column displaying **Application Steps**. These steps make it easier for you to quickly configure and set up your tool. Most of the steps have basic and advanced setting options on different panes. Advanced options include all basic setting options and further extra ones.

First set the Application Type by selecting one of the options from the drop-down:

Undefined 🔹	
	1 + Lot
Undefined	Tun
In-Motion	, and
Indexed, Stationary	
Image	
ŧ	
Code Details	0

and then walk through the application steps starting with Optimize Image.

The application steps cover the following configuration options:

- Code Details is the step to set symbologies.
- Application Details contains all light and imager, decode and displayed image settings.

- Format Data provides setting options regarding data formatting including standard, perl style, and script-based.
- Under Inputs / Outputs you can implement system settings.
- You can have all Communications settings implemented, including serial and ethernet options.
- With the Save Settings action button you can save all your configurations in an easy way.

## **Optimize Image - Quick Setup**

The first application step is **Optimize Image**. This pane is the first one because it provides you a means for a quick setup in one step.



In order to quickly set up your device, it is recommended to go through the following major steps:

- Live
- Tune
- Test

These functions are represented by the three large buttons. With each button, there is a drop-down window offering additional options that opens when clicking on the right-most side of the button.

Example:

Live	
 Decoding	
Focus Feedback	
Automatic Exposure	

#### Live

Click the **Live** button to enter *Live mode*. Live mode not only monitors what the device sees, but it decodes as well. In the drop-down window of the Live button (see above), you can find further options to configure Live mode and reader settings.

The following controls provide a subset of frequently used reader settings, which are duplicates of controls from other DataMan Setup Tool panes:

- Tick **Decoding** if you want the device to decode the taken images.
- When checked, **Focus Feedback** displays a color-coded meter on the right side of the image view. The meter indicates the focus of the lens (lower is less focused).
- Select the Automatic Exposure option to have the reader automatically determine the best exposure settings.

In the image view, you can change the region of interest (ROI) of the reader by sliding/dragging the blue ROI box. This is the area the reader will attempt to perform reads on.

#### Tune

Click the **Tune** button to automatically find the best settings for your reading. The advanced window reveals the following features:

	<ul> <li>☑ Tune Light Banks</li> <li>☑ Enable Filter Tuning</li> <li>☑ Exclude Ambient Light R</li> </ul>	Coptim Coptim	Exhaustive Tuning ize Focus During Tu
	Optimize Brightness		Advanced Application Details
	Manual Exposure		
	Maximum Exposure (μs)		
		20	200000
	Maximum Gain Factor		251,18
0	Optimize Focus		Advanced Application Details
	Train Code		Advanced Code Details
	Trigger Type		Continuous (external)
	Interval		1000000 + µs +

• Click **Optimize Brightness** to set the recommended brightness for your device automatically (only available if *Manual Exposure* is set), or, for advanced settings, click the link next to the button to navigate to the appropriate pane under **Application Details**. Alternatively, click the brightness icon under the image, or use the slider for manual brightness setup.

- Choose between **Automatic Exposure** or **Manual Exposure** as desired for your application. Camera gain can be controlled by a separate slider.
- Use the Maximum Gain Factor to set the target's maximum pixel brightness.
- Click **Optimize Focus** to set the recommended focus for your device automatically, or, for advanced settings, click the link next to the button to navigate to the **Advanced** tab under **Application Details** or the appropriate pane under **Light and Imager Settings**. Alternatively, click the focus icon under the image, or use the slider for manual focus setup.

(i) Note: It only appears when using a liquid lens.

- Click Train Code to train codes, or click the link next to the button to navigate to advanced code training settings.
- You can configure the reader with any of the following Trigger Types if Manual Exposure is set (some trigger types are not available on all devices):
  - **Single** triggering acquires a single image and attempts to decode any symbol it might contain. This trigger mode supports a read timeout.
  - Presentation triggering continuously scans for a symbol and decodes it each time one is detected.
  - **Manual** triggering acquires images as long as the trigger signal remains active, and stops when a symbol is found and decoded or the trigger signal ends.
  - **Burst** triggering acquires a set number of images and decodes the first symbol it detects within the group. You can configure the number of images within each burst as well as the interval between each image acquisition. This trigger mode supports a read timeout.
  - **Self** triggering is similar to presentation triggering in that the reader continuously scans for a symbol and decodes it each time one is detected.
  - **Continuous** triggering acquires images as long as the trigger signal remains active, where the reader acquires images at a specific interval and attempts to scan any symbols each successive image contains.

The **Tuning Results** pane on the right shows a detailed tuning graph.



You can select a result other than the recommended one by clicking on it and then clicking **Apply selected** in the bottom row:

- If you set **Tune Light Banks**, the device tunes the light banks. If you know which light settings you want to use, disable it, so the tuning doesn't overrule your preset.
- Selecting **Exhaustive Tuning** will *force* tuning the light banks. When Exhaustive Tuning is disabled, and the reader succeeds to read the code with the primary light setting (1st one in the sequence), it will stop to try other light bank combinations. If Exhaustive Tuning is on, the reader will continue to try all combinations to look for the best one, no matter whether or not the first one succeeded.
- If **Enable Filter Tuning** is selected, the DataMan Setup Tool applies filters to the read image. The filter using which the code is successfully read is then shown in the Tuning Results pane under **Image Filter**.
- If you want the focus to be automatically optimized during tuning, check the **Optimize Focus During Tuning** option.
- Check **Exclude Ambient Light Results** if you do not want only ambient light results to be automatically selected for the tuning process (which would otherwise be the prevailing illumination type for fix mount readers).

#### Test

Click the **Test** button to test your device with a configuration, without any disruption to production.

Contract Test	•	
Trigger On [ms]		33
Trigger Off[ms]	⊕ <b>0</b> ⊕	1
Trigger(s) Per Se	cond: 29,14	

If you selected a trigger type that is external (that is, not Presentation or Self trigger mode) under the **Live** button, you can trigger the reader automatically using <u>Test mode</u> to validate and test your application. You can set up an appropriate duty cycle for the reader using the **Trigger On** and **Trigger Off** times. For your convenience, you can see the calculated trigger frequency.

You can either reduce Trigger On or Trigger Off times to reduce the cycle time, and thus increase trigger frequency.

**Note**: Depending on the read setup, code to read, and connection interface, there might be speed limitations, and at higher speeds, it can help to disable image transfer. For more information, see the QandA pane in the DataMan Setup Tool.

#### **Read Performance**

With the graphs in the **Read Performance** pane on the right, you can monitor decode times and read rates in real time. Click the **Clear** button to reset the graph.

### **Code Details**

In this application step you can select the different types of symbologies to be used. On the **Basic** tab you can disable all or untrained symbologies and enable all of them. You also have the option to select 2D, 1D, Stacked and Postal symbologies separately and set the number of codes you need to read for each trigger.



On the Advanced tab you can configure further data apart from the ones you can also set on the Basic tab.

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Home Actions Settin	ngs System View				Q&A Hel	p 🗸
DM474-4DA646			d b x	Image Panel	4	×
Code Details				🖉 🔎 🧼 💮 Reset ROI 😽 🗸 🧭	Quarter +	: .
Application Type Undefined	Basic Advanced		•			
Application Steps		DM474-4D4	CAG 0			
A Ontimiza Ima		Glabel Sattings / Satura 0	Potun 1			
Cptimize ima	(Concern)	Cibbol Settings / Setup 0	Setup 1			
+	- General			_		_
6.60	+ 2D			2.4		
Code Details	/ Multicode					
	Number of Codes	1				
Anglingting	Allow Partial Poculte	- <u>+</u>				
Details	h Data Matrix					
Dotais	OB Code / MaxiCode / Aztec Code					
•	DatCode					
Format Data	1D / Stacked / Postal					
	Sorting Priority	Symbology Image Order Position (				
+	4 Training					
Cutou	Disable Untrained Symbologies	7 7				
S inputs / Output.	Incremental Training					
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Save Settings						
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## **Application Details**

This step deals with the light and imager settings. The **Basic** tab gives you the opportunity to set the trigger types, its delay, timeout, interval and burst length. Exposure options and data can also be given.

The different assistants help you in configuring these settings.

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Home Actions Setti	ngs System View		Q&A Help 🔹
0M474-4DA646 0		d ⊳ × Image Panel	+ >
Application Deta	ils	🔎 🔎 🏟 Reset Ri	DI 📑 🗕 🛃 Quarter 🕞
Application Type	Basic Advanced		
Application Steps	Trigger Type Continuous (external   Continuous (external   Continuous (external   Trigger Assistant  Delay Type None		
Code Details	Interval (µs) 1000000 📑  µs 🏹 Interval Assistant		
Application Details	Exposure Automatic Exposure Manual Exposure Assistant		
Format Data	Ехрозите (µs) 5956 20 200000		
Outpu	Gain Factor 		
Communicatio ns	Maximum Exposure (μs)		
Save Settings	Maximum Gain Factor		
		Exposure (µs)	μs
		Focus	+ 1.69

### **Trigger Assistant**

You need to select the trigger type first for this assistant to work. Select the trigger source from the drop-down: Undefined, None or External. You get a recommendation from the assistant for the trigger modes. Graphical presentations of the trigger types help you decide. Select the chosen trigger type and click **Save and Close**.

Example:



#### **Interval Assistant**

In the case of Self and Continuous modes the Interval Assistant can help you make further settings. You can select three ways to calculate the necessary data. In the top right corner select the units (standard or metric) you wish to calculate in.

With the help of **Field of View** you can calculate the longest possible interval time by measuring the physical field of view and giving the maximum line speed and the size of the longest code.

Clicking Lens / Distance to Code is calculating with the distance of the code from the lens. Give the focal lenght from the drop-down and select the direction in which the code is travelling. Here you also need to give the maximum line speed and the size of the logest code.

**Code Element Size** calculates with the size of the most narrow code element. Enable **Test Mode** to read your code. You also need to give the direction your code is travelling in, the maximum line speed and the size of the longest code.

At the bottom of the Assistant you get the recommended maximum interval time.

Example:

	Interval Assistant	
1. Select one of the below application details	to input!	Units
Field of View Size	C Lens / Distance to Code	Code Element Size
2. Measure the field of view size in the direct	ion of travel at the closest reading distance!	★ Källinini = →
mm	<u>A</u>	
3. Enter your maximum line speed m/s		
4. Enter the length of the longest code (in the mm	direction of travel)	
Recommended MaximumInterval time is:	ця	Save and Close Cancel

### **Exposure Assistant**

The Exposure Assistant is very similar to the Interval Assistant. You can select the same three ways for your calculations: Filed of view size, distance to code, and code element size.

Clicking **Field of View** helps you calculate the recommended maximum exposure time by measuring the physical field of view and giving the maximum line speed. You can enable **Test Mode** to read your smallest code.

Clicking **Lens** / **Distance to Code** is calculating with the distance of the code from the lens. Give the focal lenght from the drop-down and select the direction in which the code is travelling. Here you also need to give the maximum line speed.

**Code Element Size** calculates with the size of the most narrow code element. Enable **Test Mode** to read your code. You also need to give the direction your code is travelling in and the maximum line speed.

At the bottom of the Assistant you get the current and the recommended maximum exposure time.

Example:

		Exposure Assistant			
1. Select one of the below application	tion details to input!			Units -	•
Field of View Size		Lens / Distance to Code		Code Eleme	nt Size
2. Lens focal length	] mm				
3. Enter distance from the closest	reading point to front of li	ght			
	mm				
4. Which direction is the code(s) to	ravelling in the image?				
5. Enter your maximum line speed	m/s				
6. Enable Test Mode to read your	smallest code (at the clo Code PPM is: ppm	sest reading distance)			
Current Exposure is:	2000	μs			
Recommened Max Exposure is::		μs			
			Save	and Close	Cancel

On the Advanced tab you can implement displayed image settings.

### **Format Data**

Note: Platforms: DataMan 50, DataMan 60, DataMan 70, DataMan 150, DataMan 260, DataMan 300, DataMan 360, DataMan 360, DataMan 474, DataMan 503, DataMan 8050, DataMan 8600

In addition to standard formatting possibilities, you have the option to write a script inside the DataMan Setup Tool.

You can enable script-based formatting under the **Format Data** application step's **Basic** tab. Clicking **Data Formatting** in the **Settings** pane also navigates you to the **Format Data** application step:

🎬   🗲 💻 🕘 📓			DataMan	SetupTool
Home Actions Setting	js System View			
DM474-4DA646 O				
Format Data				
Application Type	Basic Standard Pe	orl Style Scripting		
	Basic Formatting			
Application Steps	Universal	Standard	Perl Style	
Al Optimize Ima	Data Matrix	Standard	Perl Style	
	1D / Stacked / Postal	Standard	Perl Style	
+	QR Code / MaxiCode	/ Aztec Code Standard	Perl Style	
Code Details	Script-Based Formation	ting		
	No Read Output Strir	20		
Application Details				
+				
Format Data				
+				
inputs / Outpu				
ŧ				
Communicatio				
+				
Save Settings				

When script-based formatting is enabled, you can define a JavaScript module to format data according to your needs on the **Scripting** tab of the **Format Data** application step.

Example:

Format Data	
Application Type	Basic Standard Perl Style Scripting
Application Steps Code Details Code Details Application Details Format Data Communicatio ns Save Settings	<pre>Data Formatting FTP Storage Communication    Enable Script-Based Formatting to configure settings on this pane</pre>
	99 kbytes left Ln 9 Col 1

To reach this document, click Scripting in the Format Data application step.

If your DataMan device, for instance, uploads its images to an FTP server, the images on the server get a certain file name. This file name can be customized with the help of the script that can be edited under the **FTP Storage** tab.

### Example:

Format Data	
Application Type Undefined	Basic Standard Perl Style Scripting
Application Steps	Data Formatting FTP Storage Communication     Enable Script Generated File Name for FTP to configure settings on this pane     A Complete Word (*) Insert Snippet *
Code Details	<pre>// Default script for FTP file name generation function onGenerateFTPFilename(decodeResults, readerProperties, output) {</pre>
Application Details	<pre>ftp_filename += readerProperties.trigger.index + "-" + decodeResults[0].i     return ftp_filename; }</pre>
Format Data	<pre>// Default script for FTP PCM report file name generation function onGenerateFTPPCMReportFilename(decodeResults, readerProperties, out {</pre>
Inputs / Outpu	<pre>var ftp_filename = readerProperties.name + "-"; ftp_filename += readerProperties.trigger.index + "-" + decodeResults[0].i return ftp_filename; }</pre>
Communicatio ns	
Save Settings	

On the **Communication** tab, you can edit your custom communication protocols.

Example:

Format Data		
Application Type	Basic Standard Perl Style Scripting	•
Application Stops	Data Formatting FTP Storage Communication	•
Optimize Ima	Enable Custom Communication Script	
Code Details	<pre>// Default script for custom communication protocol function CommHandler() {     return {         onConnect: function (peerName)         {             // Disable the handler for this connection:             return false;         }     } }</pre>	~
Format Data	<pre>}, onDisconnect: function () { }, onError: function (errorMsg) { }, onExpectedData: function (inputString) { return true; }, onUnexpectedData: function (inputString) {</pre>	
Save Settings	<pre>return true; }, onTimer: function () { }, onEncoder: function () { }; </pre>	~
	99 kbytes left Ln 28 Col 1	

For more information on the custom communication protocols, see the **DataMan Communications and Programming Guide**.

The script for data formatting not only allows you to have different data formatting combinations, but you can also perform operations on the output channel, for example, to *pull output 1 up*. You can *configure read results* flexibly and *configure reader events* before the result returns.

For the details of how to write the script and for scripting examples, please see the **DataMan Communications and Programming Guide**. You can find scripting samples by clicking the arrow of the **Insert Snippet** drop-down menu or right-clicking within the text field and selecting **Insert Snippet** from the pop-up list.

You can open your own scripts through the DataMan Setup Tool's Scripting -> Open Script... option.

## Inputs / Outputs

This application step is the place to set all system settings regarding decode and device time settings,Multi-Reader Sync and wake-up message settings. You can configure the input and output data.

The **Basic** tab enables you to configure the behavior of the trigger and tune buttons, inputs, outputs and pulse encoder data. Height sensor data can also be set for devices that it is relevant.

								,	
Actions Setti	ngs System \	liew							Q&A Help
474-4DA646 O									đ
puts/Outputs									
plication Type	Racio Advance	bod							
lefined -	Dasic Advanc	T		1	_	7	T.	_	
	TRIG Button	TUNE B	lutton	Inputs	Output	S Output Delay	Pulse Encoder	Buffering and Transfer	
plication Steps	1		0	1	2	3			
🔄 Optimize Ima	Events		-						
	I/O Direction				Input 🗸	Input 👻			
•	Strobe								
Code Details	Read		1	102					
	No Read			1					
	Validation Failure	э		15	1				
Application Details	Trigger Overrun			161		1			
Dotano	Buffer Overflow			19		S.			
1	User Event 1			16					
Format Data	User Event 2			195					
1	Action								
	Open								
Inputs / Outpu	Closed		1	1	1	1			
1	Pulse Width [ms]		5	\$ 5	€ 5 \$	5 🗘			
Communicatio	Enable Beeper Beep Length (ms)	on Good Re 	ead 50	Error LED Pr	ulse Duration (m +	s] 0			
			5						

The **Advanced** tab provides you the following setting options:

Application Type Undefined	Basic Advanced				
Application Steps					
🤌 Ontimize Ima		Global Settings / Setup ()	DW474-4DA040	Setun 1	
- optimize main	4 System Settings		ena j	ootap i	
	Device Name	DM474-4DA646			
Carda Datalla	Device Description				
Code Details	▶ TRIG Button				
+	TUNE Button				
Application	▶ Inputs				
Kalan Details	▶ Outputs				
1	▶ Output Delay				
r. n.	Pulse Encoder				
Format Data	Decode Settings				
	Master/Slave				
	Wake-up Message				
Inputs / Outpu					
+					
Communicatio					
💛 ns					
1					

## Communications

All the communication ports data are set in this application step. Set the serial and ethernet data on the tabs with the same name.

Communications		
Application Type	Serial Ethernet Advanced	
Undefined -	Serial Port Settings	
Application Steps	Speed	115200 -
栏 Optimize Ima	Parity Data Bits	None •
+	Stop Bits	
Code Details	RS 232 Inter-character Delay (ms)	0
Application Details		
Format Data		
Dinputs / Outpu		
Communicatio		
ns		
•		
Save Settings		
Communications		
Communications Application Type	Serial Ethernet Advanced	
Communications Application Type Undefined	Serial Ethernet Advanced	<b>^</b>
Application Type	Serial Ethernet Advanced	^
Communications Application Type Undefined • Application Steps	Serial Ethernet Advanced Use DHCP Server Use Static IP Address	10.86.80.0
Application Type Undefined • Application Steps	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask	10.86.80.0 255.255.255.0
Application Type Undefined  Application Steps Optimize Ima	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway	10.36.80.0 255.255.255.0 10.86.80.205
Communications Application Type Undefined • Application Steps Optimize Ima Code Details	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings
Communications Application Type Undefined Application Steps Optimize Ima Code Details	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings
Communications Application Type Undefined  Application Steps Code Details Application Application	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23 ÷
Communications Application Type Undefined • Application Steps Optimize Ima Code Details Application Details	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Telnet Port	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23÷
Communications Application Type Undefined  Application Steps  Code Details  Application Details  Format Data	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP <sup>TM</sup> PROFINET	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23 SLMP Protoc Modbus TCP
Communications Application Type Undefined Application Steps Optimize Ima Code Details Application Details Format Data	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP <sup>TM</sup> PROFINET Only one protocol may be enable	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23 SLMP Protoc Modbus TCP sd.
Communications Application Type Undefined Application Steps Optimize Ima Code Details Application Details Format Data	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP <sup>TM</sup> PROFINET Only one protocol may be enable Use Name of Station Name of Station	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23 23 SLMP Protoc Modbus TCP ad.
Communications Application Type Undefined Application Steps Optimize Ima Code Details Application Details Format Data	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP <sup>TM</sup> PROFINET Only one protocol may be enable Use Name of Station Name of Station	10.86.80.0          255.255.255.0          10.86.80.205          Copy PC Network Settings         23:         SLMP Protoc       Modbus TCP         ad.
Communications Application Type Undefined Application Steps Code Details Application Details Format Data Inputs / Outpu	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP <sup>TM</sup> PROFINET Only one protocol may be enable Use Name of Station Name of Station Status;	10.86.80.0     255.255.0     255.255.0     Copy PC Network Settings     23     SLMP Protoc Modbus TCP ad.
Communications Application Type Undefined Application Steps Code Details Code Details Format Data Inputs / Outpu Communicatio	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP <sup>TM</sup> PROFINET Only one protocol may be enable Use Name of Station Name of Station Status:	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23 ÷ SLMP Protoc Modbus TCP ad.
Communications Application Type Undefined  Application Steps Optimize Ima Code Details Application Details Format Data Inputs / Outpu	Serial Ethernet Advanced Use DHCP Server Use Static IP Address IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP <sup>TM</sup> PROFINET Only one protocol may be enable Use Name of Station Name of Station Status: Network Client Enabled	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23 ÷ SLMP Protoc Modbus TCP ed.
Communications Application Type Undefined Application Steps Code Details Code Details Application Details Format Data Communicatio ns Save Settings	Serial Ethernet Advanced Use DHCP Server Use Static IP Address Subnet Mask Default Gateway Telnet Telnet Port Industrial Protocols EtherNet/IP** PROFINET Only one protocol may be enable Use Name of Station Status: Network Client Enabled Host Address	10.86.80.0 255.255.255.0 10.86.80.205 Copy PC Network Settings 23 ÷ SLMP Protoc Modbus TCP sd.

The **Advanced** tab provides you the following setting options:

pplication Type	Serial Ethernet Advanced			2
pplication Steps			46	1.
🏄 Ontimize Ima		Global Settings / Setup ()	Sotun 1	
Coptimize initia	4 Serial		octup (	
+	Speed	115200		
	Parity	None		
Code Details	Data Bits	8		
1	Stop Bits	1		
Application	BS 232 Inter-character Delay (ms)	0		
Details	Used communication channel			
	Enable Multi-Port (RS-232 Sharing)			
	4 Ethernet			
Format Data	Use DHCP Server			
	IP Address	10.86.80.0		
+	Subnet Mask	255 255 255 0		
Inputs / Outpu	Default Gateway	10 86 80 205		
S mputor output.	A Non-Printing Characters			
+	Translate Unprintable Chars			
Communicatio	4 Custom Commands	×		
🙂 ns	Serial Trigger			
1	Echo Commands			
	A Network Settings			
Save Settings	▶ Authentication			
_	Felnet			
	Network Client			
	4 Industrial Protocols			
	▶ EtherNet/IP™			
	▶ PROFINET			
	SLMP Protocol			
	Modbus TCP			

## **Save Settings**

This is an action button.

By clicking it, you can save all your configuration settings in one step.



## Settings

Under the Settings tab you can configure the following functions of the Setup Tool.

## **Test Mode**

Note: Platforms: DataMan 50, DataMan 60, DataMan 70, DataMan 150, DataMan 260, DataMan 300, DataMan 360, DataMan 360,

**Test Mode** lets you configure and test a reader that is connected to a production line without needing to slow down or stop your line. To enter **Test Mode**,

- Press the button (to which you previously assigned this function) on the device for 3 seconds
- Send a DataMan Control Command (DMCC)



Click the Enable Test Mode button in the DataMan Setup Tool (Actions ->

While in Test Mode, the reader by default ignores all external trigger sources and disables all input and output lines. Check **Automatic Triggering Enabled**, and the reader will simulate external triggers at the interval that you specify.

🎬 🕴 💻 🕐 📓	5] 🗆 🗉 🖾
Home Actions Settings System View	Q&A Help 🔺
Image Settings	System Table View Active Read Set.
DM260-aremenvi 0 DM474-4DA646 0	Image Panel 7 💥
Test Mode Settings	🔎 🔎 🐵 🗄 Reset ROI 📴 🗸 🛃 Quarter 👻 🍟
Application Type Undefined  Application Steps  Optimize Ima.  Automatic Triggering  Aut	Exposure (jis) Gain Factor Focus
Untrained	

If Automatic Triggering is not enabled, click **Accept Trigger Batch** in the **Input / Output State** field, and the reader will accept and process a limited number of external triggers at production speed.

In both cases, you can view images and decodes using production settings, but at a slower rate and without sending output signals to your line.

For more information on Test Mode, see the DataMan Fixed Mount Readers Reference Manual.

## **Read Setups**

Note: Platforms: DataMan 50, DataMan 60, DataMan 70, DataMan 150, DataMan 260, DataMan 300, DataMan 360, DataMan 360, DataMan 474, DataMan 503, DataMan 8600

It is possible to configure a variety of acquisition parameters for your DataMan reader in a unified **Read Setups** document.



Connect to a reader and click the Setups button on the Settings pane to open the Read Setups document.

#### Example:

;   F 💻 🕘 🗱	Pane Tools	Da	taMan SetupToo	I - DM474-4DA646 [10.86.80.35	j] — ®
Home Actions Setting	gs System View Read Setups				Q&A Help
Orward     Add Dele     Setup Set	Setup 10000000000       Last Successful Decode	Copy Paste Seset Values	Non-Default Values     Difference to Refere     Filter	Ance Expand Highlighted Set Reference R Rows Only Set Reference R	Read Setup Settings     Global Settings     All Settings     All Settings
History Table	View Starting Setup	Editing		Highlighting	Filtering Other
M474-4DA646 O DM260-gal	bor O				d t
Read Setups					
Application Type				DM474-4DA646	
Jndefined 🔹		Se	tup 0 [🛎]	Setup 1	Setup 2
	4 Read Setup				
pplication Steps	Name	Setup 10000000	000000000000000000000000000000000000	Setup 0	Setup 2
🤌 Ontimize Ima	Enabled	<b>v</b>		✓	✓
Coptimize initia	Light and Imager Settings				
+	4 Trigger Settings				
6.4	Timeout [ms]	2 000		2.000	2 000
Code Details	Imager Settings				
1	Automatic Exposure	T .		<u> </u>	Г
Analization	Maximum Exposure (µs)	200 000		5 000	200 000
Details	Maximum Gain Factor	251,18		251,18	251,18
Dotans	Exposure (µs)	2 000		3 489	2 000
•	Gain Factor	2,32		5,37	2,32
Eormat Data	Image Mirroring				
<b>L</b>	Flip Horizontal	Г		E.	
+	Flip Vertical	Г			
	4 Light Settings				
Communicatio	Light Settings				
1	4 External				
	Enabled	~		~	~
Save Settings	External Intensity	15		15	15
	Image Size (Region of Interest)				
				Untrained	

Your reader can be configured for up to 16 different settings. In *Single*, *Continuous*, *Self*, and *Burst* trigger modes, you can enable multiple (or all) setups, and the DataMan reader goes through all of the configured imager combinations until there is a decoded image or there are no images left (that is, a no read image).

You can change the parameters for the setups in the Read Setup document's appropriate table cell.

Example:

	DM474-4DA646
Setup 0 🔠	Setup 1
Setup 1000000000000000000000000000000000000	Setup 0
<b>√</b>	<b>v</b>
2 000	2.000
200 000	5 000
251.18	251,18
2 000	3 489
2,32	5.37
<b>-</b> 1	Γ.
	[ <sup>1</sup> ]
V	<b>v</b>
15	15
(0,0).(2048,1536)	(0.0).(2048.1536)
No Filtering	No Filtering
Onoinal	Orininal
Original	Original
Original	Original
Original	Original
0 (Fixed Focus)	0/Eixed Focus)
( wear beaa)	o (r mou r doudy
8.74	
0,38	1,97
v	~
IDMax	IDMax
✓	
	100

The read setup process starts with either a specific setup, or the Last Successful Decode (as you choose).

The currently selected setup also gets represented on other panes. For example, you can check which is the active Read Setup in the Settings pane:

0	
Active Read Setup ▼	
Setup 1	•
Active Read	Setup

### **Data Validation**

**Data Validation** is used to confirm that the data encoded by a symbol is in the correct format for a particular company, industry or international standard.

🖀 📕 🔮 📕 🕐 📕 DataMan SetupTool - DM474-4DA646 [10.86.80.35]	-		23
Home Actions Settings System View	Q&A	Help	~
Image: Settings			
DM474-4DA545 0 g b × Result History		ņ	$\times$
Data Validation 🔊 🔟 - 🍄 - 🌒 🗉 Logging -			
Data Vanuation Result Result Result Status			
Application Type Data Matrix QR Code / MaxiCode / Aztec Code 1D / Stacked / Postal			
Application Steps Deb UID Validation			
Optimize Ima. OISO Validation			
GS1 Validation			
Match String Validation			
Code Details © Pattern-Matching Validation			
Pattern Pattern			
Jetails			
Validation Failure Action			
Format Data			
Inputs / Outpu			
•			
Communicatio			
ns in the second			
* · · · · · · · · · · · · · · · · · · ·			
Save Settings			
Data Matrix 16v26 0 5p	-		-

Data Matrix, QR Code/MaxiCode/Aztec Code and 1D/Stacked/Postal code categories can be validated against standards/well formedness.

### **Code Quality**

Under **Code Quality** you can set the desired code quality standard you want to use for quality assessment for your code type. Once you set this on the **General** tab, you can navigate to the appropriate code quality standard's sub-tab under the **1D Barcodes** or **2D Codes** tabs and customize for specific grades the grading thresholds, inclusion of specific grades in the overall grade and their display in the report.

**(i)** Note: MicroQR is not supported for code quality grading.

🎬   ۶ 💻 🙂 📕	DataMan SetupTool - DM474-4DA646 [10.86.80.35]	
Home Actions Setting	s System View	Q&A Help 🔺
Back Forward     History	Mode       Read       Application       Symbology       Data       Code       Data       Scripting       Buffering and       Communication       System       Table         Mode       Read       Application       Symbology       Data       Code       Data       Scripting       Buffering and       Communication       System       Table         Panes       Panes       Active Read Set.       Active Read Set.       Active Read Set.	
DM474-4DA646 0		4 Þ ×
Code Quality		
Application Type Undefined  Application Steps  Optimize Ima  Application Details  Application Details  Format Data  Imputs / Outpu  Communication Is  Save Settings	General       2D Cades       1D Barcodes       Reput FTP Transfer         General       Append Code Quality Data to Result String          Øut Overall Grade       Prefix For Data          Prefix For Data           Name           Reported Data           Name           Strade           Value           Grade + Value           Code Quality Report Custom Description	
	Data Mation 16/26 0.5a	

After you set up your device to compute ISO/IEC 15415, AIM-DPM/ISO/IEC TR29158, SEMI T10, or DotCode for 2D Codes (under the General tab in the Code Quality pane), the 2D Codes, 1D Barcodes tabs allow you to manage aspects of those types of code grading.

**Result String** tab: By ticking the checkbox **Append Code Quality Data to Result String**, you enable token based data formatting and allow code quality result data to be appended to result strings. If checked, the **Output Overall Grade** outputs the overall code quality grade (which is defined as the minimum grade of selected metrics) in the result string.

The Report FTP Transfer tab allows you to set up code quality results to be sent via FTP in form of an HTML report.

### **Buffering and Transfer**

**Buffering and Transfer** lets you control what images are recorded and saved on the reader, it lets you view images that are saved on the reader, and it lets you transfer those images to your PC.

- The Image Buffering tab lets you control what images to save to the reader.
- The Image PC Transfer tab lets you control how images are transferred from the reader to your PC.
- The Image FTP Transfer tab lets you set up automatic image transfers from the reader to your PC.
- The **Result FTP Transfer tab** lets you to configure the reader with the IP address and port number necessary to send decode results to an FTP server.

### Using the DataMan Setup Tool

	DataMan SetupTool - DM474-4DA646 [10.86.80.35]	
Home Actions Settin	ngs System View	Q&A Help
	Image: Seturgs       Image	• et.
DM474-4DA646 0		d þ
Buffering and Tr	ansfer	
Application Type	Image Buffering Image PC Transfer Image FTP Transfer Result FTP Transfer	
Application Steps	Buffering Settings What Results to Buffer None  What Images to Buffer for All Result Images or Bonult Limit	
Code Details	Images purfers Maximum 6	
Application Details	No Read Image Mode No Read Image Period  No Read Image Period  No Read Image Period	
Format Data	No Read Image Number       No Read Image Rate     1       No Read Image Rate     1       No Read Image Rate Burst     1	
Inputs / Outpu	Good Read Image Mode Good Read Image Mode Unlimited Good Read Image Rate Imag	
Communicatio ns	Good Read Image Rate	
Save Settings	Number of Buffered 0	
	1. DETAILs of the Characteria	

() Note: The Buffering and Transfer function does not perform any decoding.

## Actions and System

After connecting to a device, the Actions and System tabs of the DataMan Setup Tool also become available.

On the Actions tab, you can set the input line and trigger the reader, enable live display, optimize brightness and focus, and tune the reader. You can also enable Test Mode here and show the device log or switch to the Process Monitor. You can also load and train images and codes on this tab.

Home	Act	ions	Settings S	System V	iew								
Back F	orward	<b>F</b> Trigger	Input Line 1 Action	Input Line 2 Action	Input Line 3 Action	Live	Optimize Brightness	Optimize Focus	<b>O</b> Tune	Train Code	Enable Test Mode	Switch to Process Monitor	🛶 Upload Image
Histo	ory		T	rigger					Ad	tions			Images

The System tab enables you to save and open configuration settings related to the device your Setup Tool is connected to. For more information on these options, see the QandA document of the relevant device (or the Q & A pane in Setup Tool).

	Act	ons Settings	System	View				
Back For	€) rward	<ul> <li>System Info</li> <li>Device Log</li> <li>Configuration Bat</li> </ul>	ckup Settings	Save Configuration         Open Configuration         Save Settings	Reset Configuration     S     Update Firmware     Upload Feature Key	Print Device Backup Code	Mail	Configuration
History	у			Configu	iration		Export Parameters	Human Readable Configuration

## View

The View tab helps you to display different views related to the data you want to check. The following options are available:



Opens the Image Viewer window.

Opens the Image Panel toolview where you can view the images read by the device.



Opens the **Result History** toolview in which you can view and log read results.

Result History



Displays the Code Quality toolview where you can do and view the necessary code quality settings.



Opens the Q & A pane in which you can see questions and answers related to the options appearing on the open document.



Clicking on the downward arrow belonging to this option, you can select the layout in which you want to display the panes you selected.

Syncronized Navigation

Clicking on this option results the same navigation steps you made occur in all open device documents.

## **Image Viewer**

The **Image Viewer** window can be docked in several places of the application, it can be pinned or set to auto-hide on mouse leave.

To open the Image viewer, select a reader in the Connect backstage page, connect to it, and go to the View tab. There,



click on the Viewer button to open the Image Viewer window:



In this window, you can view the image read by your reader. The image is zoomable, it can be copied to the clipboard or saved to a selected folder. You can also select to check the histogram of the read image and the brightness data of a selected point in the image. Use the buttons on the toolbar ribbon of this window to carry out these tasks.

You can view the read image on the right hand side of the window: the Image Panel is always displayed by default. On



the **View** tab you can switch on and off by clicking the Panel icon. This window can also be docked in different places of the application.

Example:

😫   🗲 💻 🕘 📓		DataMan SetupTool - DM474-4DA646 [10.86.80.35]			-	•	23
Home Actions Settings Sy	stem View				Q & A	Help	~
DM474-4DA646 0		4	Þ × In	nage Panel		ц.	×
Optimize Image			e	👂 🔎 🚭 👰 Reset ROI 🖳 🗸	🥑 Quarter	•	
Application Type Basic	Advanced		-				
	Code After Read Performance	Tuning Results	•				
Application Steps	10		T I				
Optimize Ima	Live 9		_				
	Tune						
Code Details	•						
Application Details	Test - 7		-				
+	6		-	0			
Format Data			_			Π	
	Decod 4		_		MERICAN PARTY		
Communicatio	3					-	
ns	HDR 2						
Save Settings							
	0 55	50 45 40 35 30 25 20 15 10 5	0				
Hig	h Frequency Ligh Current Read Rate	Clea	ar E	Exposure (μs) 💌 🕞 🗍 — τ—		μs	
Ain	er Enabled Decode Time [ms]			Sain Factor	+ 2.32		
I Ext	Found Symbologi		F	ocus		.38 di	iopter
	Read Strings					454 m	m

The same zooming options are available here as in the Image Viewer window, but you can also log no-read and decoded images to the file system from this pane using the Logging options (click the More Buttons drop-down arrow on the far right side of the Image Panel:

🔲 Logging 🔹	
Log all nor	read images to file system
Log all dec	coded images to file system
Logging a	nd reporting settings

Clicking the last option here opens the <u>Setup Tool Options</u> window, in which you can set the default folder where logs of no-read and decoded images are to be saved.

Because of multi-reader support, several device document tabs can be open at a time, which means that there can be multiple image sources at the same time. Therefore, the **Image Viewer** receives image data only from the currently active device document. If the current document cannot provide image data (e.g. it is a <u>Reader Group Editor</u>), the content of the **Image Viewer** window will be empty.

### **Results Viewer**

Similarly to the Image Viewer, the Result History pane can be configured in different layouts.

To open the Result History pane, select a reader in the Connect backstage page, connect to it, and go to the View tab.



There, click on the History button to open the Result History pane.

The result data comes from the currently active document if it can provide any. If not, then the **Result History** will be empty.

• Note: Process Monitor and Reader Statistics provide *all* and not just the latest data, but in the case of the read images, only the latest ones are displayed.



You can customize the layout of this pane using the available options, that is, you can choose what data should be shown in the columns of the table.



Select what you want to log from the Logging drop-down list:

Logging 👻	
Generate Code Quality reports	
Generate Data Validation reports	
Log all result codes to file system	
Logging and reporting settings	

Clicking the last option here opens the <u>Setup Tool Options</u> window, in which you can set the default folder where reports and the logs of result codes are to be saved.

# **Backstage Pages**

The opening backstage page of the DataMan Setup Tool is <u>Connect</u>, which was introduced earlier in this document. This section contains information about the other backstage pages: <u>Repair and Support, Backup, Restore, Update Firmware</u>, <u>Reader Groups</u> and <u>Image Playback</u>.

## Maintenance

The **Maintenance** page can be used to set the network settings of a misconfigured network device or change the HID mode of a serial device to CDC, as well as for backing up and restoring device configurations, and updating firmware.

🏭   ۶ 💻 🕲 📕		DataMan Setup	oTool - DM4	74-4DA646 [10	0.86.80.35]	_		23
Home Actions Settings	System View						Q & A	Help
Connect	🖸 Refresh 👻 🕂 Add Network Device 🚽	Add Virtual Device	💥 Remove Virtu	al Device Grouping	Interface Type - Filter Filter	× 🚳 🛔	i	5
Maintenance	Name	Туре	Address	Firmware Version	Network Settings			
Repair & Support	Network				Use DHCP Server			
Backup	- M260-abenko	DM260	10.86.80.14	5.7.0	Gose Static IP Address			
Restore	DM260-aremenyi	DM260	10.86.80.133	5.7.0	IP Address 10	.86.80.35 15.255.255.0	3	1
itestore	DM260-gabor	DM260	10.86.80.8	5.7.0	Default Gateway	86.80.205		d'
Update Firmware	M262-3CF612	DM260	10.86.80.45	5.7.0	Device name D	M474-4DA646		
Reader Groups	DM262-aremenyi	DM260	10.86.80.178	5.7.0		Copy PC Network Set	tings	•
Image Playback	DM302-abanko	DM300	10.86.80.63	570	Reboot Device		Apply	
Options		DM300	10.00.00.10	5.7.0			2415250	
About	DM302-TKAROLY	DM300	10.86.80.18	5.7.0				
Exit	OM363-1A1453XN018104	DM360	10.86.80.96	5.7.0				
	OM363-1C8BBC	DM360	10.86.80.139	5.7.0_rc3				
	DM474-4DA646	DM470	10.86.80.35	6.0.1_a9				
	DM474-4DA65C	DM470	10.86.80.33	6.0.1_a9				
	DM474-4DB33C	DM470	10.86.80.58	6.0.1_a9				
	- DM474-4DB5D2	DM470	10.86.80.24	6.0.1_a9				
	0M474-4DC28A	DM470	10.86.80.25	6.0.1_a9				
	DM474-4DC296	DM470	10.86.80.38	6.0.1_a9				
	DM503-41DAEC	DM503	10.86.80.91	5.7.0				
	- DM8000Base-409A50	DM8000Base	10.86.80.94	5.4.4_rc8				
	- DM8000BaseBT-110268	DM8000BaseBT	10.86.80.23	5.4.4_sr1_rc5				
	▲ []]							

To be able to see the complete list of discovered devices, check the View Hidden option.

You can add a network device by clicking Hadd Network Device. The

Add Network Device dialog opens, where you can provide the necessary information (IP address of the device to be added). Click OK to save the changes and then **Refresh** to see the device added to the list.

	Add Net	work Device				
IP Address:		0.0.0	đ			

### **Virtual Devices**

The **Add Virtual Device** function allows you to create a virtual device based on either a custom configuration file or a device with default configuration. This can be used to look at different panes in Setup Tool without the need of a device to connect to.

		annan setup 1001	00000				
Home Settings Actions	System View Developer						Q&A Hel
Connect	😋 Refresh 👻 🕂 Add Network Device 🕂 A	dd Virtual Device	🗶 Remove Virtual	Device Grou	uping Interface Type 🔹	Filter Filter	× 🛞
Maintenance	Name	Туре	Address	Firmw 🔺	Network Settings		
Repair & Support	🖉 🔺 🛅 Serial				Use DHCP Server		
	DataMan 50 Series CDC port	DM50	COM9		Use Static IP Addre	155	
Backup					IP Address	10,85,80,100	1
Restore	- Emmil: COM1	RS232	COM1		Subnet Mask	255.255.255.0	I
	COM3	RS232	COM3		Default Gateway	10.86.80.205	1
Update Firmware	A Potwork				Device name	DM60-1BC318	
Reader Groups	PTM Lease	ConEvPTM	127.0.0.1		Authenticate		
Image Playback	5 Min Cean	COGEXITIM	127.0.0.1	10000	Username	admin	
0.1	DM60-1BC318	DM60	10.86.80.100	5.7.0_r	Password		
Opuons	- CM60-A	DM60	10.86.80.114	5.7.0_r			
About	DM260-1CBEC6	DM260	10 86 80 84	570 r			Apply
Exit		011200	10.00.00.04	0.000_1			

Pressing the button initiates a wizard that guides you through the steps of creating a virtual device. Initial options are to use a configuration/backup file for creation or use the factory default settings.

Provide information at	out the virtual device.		
Device name:	DM303X-V0001		
Device type:	DM300 Series	-	
Firmware version:	5.6.3	-	
2.7	DM303X	•	

After the wizard is finished, a new virtual device is added to the list of discovered devices, indicated by a V icon as a

virtual device, for example . The created virtual device is not visible for other devices on the network. The virtual device persists during multiple Setup Tool instances.

#### **Backstage Pages**

Connect       © Refresh · Grouping Interface Type · Filter / Letr       Image Playback       Organization       Status       Open         Maintenance       Repair 8. Support       DM302-attenko       DM300       1056.80.62       5.5.3       Discovered         Backup       DM302-attenko       DM300       1086.80.56       5.7.0_rc4       Discovered         Update Firmware       DM300-1086.80.76       5.7.0_rc4       Discovered         Wordst-Groups       DM303-ipal       DM300       10.86.80.76       5.7.0_rc4       Discovered         Options       DM303-ipal       DM300       10.86.80.76       5.7.0_rc4       Discovered         Options       DM303-ipal       DM300       10.86.80.76       5.7.0_rc4       Discovered         Options       DM303-ipal       DM300       10.86.80.76       5.7.0_rc4       Discovered         Obtions       DM503-41DAEC       DM503       10.86.80.16       5.7.0_rc4       Discovered         OM8000EaseeHT-1A1349XN016198       DM8000EaseeHT       10.86.80.16       5.7.0_rc4       Discovered         OM8000EaseeHT-1A1349XN016198       DM8000EaseeHT       10.86.80.16       5.4.4_A3       Discovered         OM8000EaseeHT-1A1349XN016198       DM8000       10.86.80.16       5.4.4_A3       D	Home View					Q&A Help
Maintenance       Name       Type       Address       Firmware Version       Status       Open         Repair & Support       DM302-abenko       DM300       1088.80.62       56.3       Discovered         Backup       DM302-aremenyi       DM300       1086.80.56       57.0_rc4       Discovered         Qudate Firmware       DM300-40800C       DM360       10.86.80.78       57.0_rc4       Discovered         Qudate Firmware       DM360-40800C       DM360       10.86.80.78       57.0_rc4       Discovered         Reader Groups       DM360-40800C       DM360       10.86.80.78       57.0_rc4       Discovered         Options       DM360-40800C       DM360       10.86.80.76       57.0_rc4       Discovered         About       DM3603-41DAEC       DM500       10.86.80.16       57.0_rc4       Discovered         DM8000Base-409A50       DM8000Base-81       10.86.80.16       57.4_rA3       Discovered         DM8000Base-409A50       DM8000       10.86.80.16       54.4_A3       Discovered         DM8000-18F566       DM8000       10.86.80.61       54.4_A3       Discovered         DM8600-41E130       DM8000       10.86.80.61       54.4_A3       Discovered         DM8600-jostor       DM	Connect	Grouping Interface Type		er	💌 📩 🚔 🗌 View Hidden (0)	
Reader GroupsDM363-ipalDM36010.8680.0255.7.grdDiscoveredImage PlaybackDM5003-41DAECDM50310.8680.0165.7.grdDiscoveredOptionsDM8000Base-409A50DM8000Base10.86.80.135.44_A3DiscoveredAboutDM8000BaseBT-1A1349XN016198DM8000BaseBT10.86.80.185.4.3DiscoveredDM8000-1BF566DM8000-1BF566DM800010.86.80.185.4.4.3DiscoveredDM8600-41E130DM860010.86.80.185.4.4.3DiscoveredDM8600-41E130DM860010.86.80.185.4.4.3DiscoveredDM8600-41E130DM860010.86.80.185.4.4.3DiscoveredDM8600-41E130DM860010.86.80.185.4.4.3DiscoveredDM8600-jostorDM860010.86.80.185.4.4.3DiscoveredDM8600-jostorDM860010.86.80.185.4.4.3DiscoveredDM8600-3000DM860010.86.80.185.4.4.3DiscoveredDM8600-jostorDM860010.86.80.185.4.4.3DiscoveredDM8600-jostorDM860010.86.80.185.4.4.3DiscoveredDM8000-3000DM860010.86.80.185.4.4.3DiscoveredDM8000-3000DM860010.86.80.185.4.4.33DiscoveredDM8000-3000DM800010.86.80.185.4.4.33DiscoveredDM8000-3000DM800010.86.80.185.4.4.33DiscoveredDM8000-3000DM800010.86.80.185.4.3Discovered <td>Maintenance Repair &amp; Support Backup Restore Update Firmware</td> <td>Name           Image: DM302-abenko           Image: DM302-aremenyi           Image: DM303-ipal           Image: DM360-40B00C           Image: DM363-1C9878</td> <td>Type         #           DM300         DM300           DM300         DM300           DM300         DM300           DM360         DM360</td> <td>Address 10.86.80.62 10.86.80.56 10.86.80.45 10.86.80.78 10.86.80.70</td> <td>Firmware Version 56.3 5.7.0_rc4 5.7.0_rc4 5.7.0_rc4 5.7.0_rc4</td> <td>Status Open in A Discovered Discovered Discovered Discovered Discovered</td>	Maintenance Repair & Support Backup Restore Update Firmware	Name           Image: DM302-abenko           Image: DM302-aremenyi           Image: DM303-ipal           Image: DM360-40B00C           Image: DM363-1C9878	Type         #           DM300         DM300           DM300         DM300           DM300         DM300           DM360         DM360	Address 10.86.80.62 10.86.80.56 10.86.80.45 10.86.80.78 10.86.80.70	Firmware Version 56.3 5.7.0_rc4 5.7.0_rc4 5.7.0_rc4 5.7.0_rc4	Status Open in A Discovered Discovered Discovered Discovered Discovered
Options       About       DM8000Base409A50       DM8000BaseB       10.86.80.13       5.44_A3       Discovered         Exit       DM8000BaseBT-1A1349XN016198       DM8000BaseBT       10.86.80.18       5.43       Discovered         DM800041E130       DM8000BaseBT       10.86.80.18       5.44_A3       Discovered         DM800041E130       DM8000       10.86.80.18       5.44_A3       Discovered         DM8600-41E130       DM8000       10.86.80.18       5.44_A3       Discovered         DM8600-41E130       DM8000       10.86.80.18       5.44_A3       Discovered         DM8600-41E130       DM8000       10.86.80.16       5.44_A3       Discovered         DM8600-jostor       DM8000       10.86.80.16       5.44_A3       Discovered         DM8600-jostor       DM8000       10.86.80.16       5.44_A3       Discovered	Reader Groups Image Playback	- 💓 DM363-ipal - 🥎 DM503-41DAEC	DM360 DM503	10.86.80.25 10.86.80.106	5.7.0_rc4 5.7.0_rc4	Discovered Discovered
Exit         DM8050-1BF566         DM8050         10.86.80.18         5.4.3         Discovered           DM8600-41E130         DM8600         10.86.80.61         5.4.4_A3         Discovered           DM8600-41E18A         DM8600         10.86.80.77         5.4.4_A3         Discovered           DM8600-jostor         DM8600         10.86.80.45         5.4.4_A3         Discovered	Options About	DM8000Base-409A50     DM8000BaseBT-1A1349XN01619	DM8000Base 8 DM8000BaseBT	10.86.80.13 10.86.80.96	5.4.4_A3 5.4.4_A3	Discovered
DM8600-41E130         DM8600         10.86.80.61         5.4.4_A3         Discovered           DM8600-41E18A         DM8600         10.86.80.97         5.4.4_A3         Discovered           DM8600-jostor         DM8600         10.86.80.46         5.4.4_A3         Discovered           Virtual         Virtual         JM300         5.6.3         Discovered	Exit	СМ8050-1BF566	DM8050	10.86.80.18	5.4.3	Discovered
DM8600-jostor         DM8600         10.86.80.46         5.4.4_A3         Discovered           Virtual         Image: Comparison of the second sec		DM8600-41E18A	DM8600	10.86.80.61	5.4.4_A3	Discovered
		DM8600-jostor     Virtual     DM303X-V0001	DM8600 DM300	10.86.80.46	5.6.3	Discovered Discovered

The created virtual device can be connected to the same way as a regular device, except that all configuration changes are rejected (everything is read-only) and no features, functions, and actions work on virtual devices.

### Backup

The **Backup** page can be used to generate a backup file containing the configuration and logs of one or more readers. To do so, highlight the devies(s) you want to backup and click the **Backup** button on the lower right. You can find the backup files easily by clicking the **Open Backup Folder** button.

#### **Backstage Pages**

<b>■</b>  ∮ 및 ④ ■			Data	Man SetupTool	- • ×
Home View					Q&A Help
Connect	C Refresh - Grouping Interface	• Type • Filter	Filter	📫 🏥 🛄 View Hidden (4)	
Maintenance	Name	Туре	Address	Latest Backup Date Firmware Version	Status
Repair & Support	Network				
Backup	- M260-abenko	DM260	10.86.80.14	5.7.0	Discovered
Restore	- M260-aremenyi	DM260	10.86.80.133	5.7.0	Discovered
Update Firmware	DM260-gabor	DM260	10.86.80.8	5.7.0	Discovered
Reader Groups	- M262-aremenyi	DM260	10.86.80.178	5.7.0	Discovered
Image Playback	- MI302-abenko	DM300	10.86.80.63	5.7.0	Discovered
Options	- MIS02-TKAROLY	DM300	10.86.80.18	5.7.0	Discovered
About	DM363-1A1453XN018104	DM360	10.86.80.96	5.7.0	Discovered
Exit	- 60 DM363-1C8BBC	DM360	10.86.80.139	5.7.0_rc3	Discovered
	- M474-4DA646	DM470	10.86.80.35	6.0.1_a9	Discovered
	0M474-4DA65C	DM470	10.86.80.33	6_0_1	Discovered
	0M474-4DB5D2	DM470	10.86.80.24	6_0_1	Discovered
	DM474-4DC28A	DM470	10.86.80.25	6_0_1	Discovered
	- DM474-4DC296	DM470	10.86.80.38	6_0_1	Discovered
	DM503-41DAEC	DM503	10.86.80.91	5.7.0	Discovered
	DM8000Base-409A50	DM8000Base	10.86.80.94	5.4.4_rc8	Discovered
	DM8000BaseBT-110268	DM8000BaseBT	10.86.80.23	5.4.4_sr1_rc5	Discovered
			11		•
					Open Backup Folder

## Restore

The **Restore** page allows the restoration of backed up configuration files on one or more devices. This feature is only available if at least one device is selected and if a valid configuration source is specified. **Configuration Source** on top allows you to configure the source Setup Tool uses for restoration.

S 1 5 1 0 1			DataMan S	etupTool	. e 3
Connect Maintenance Repair & Support Backup Restore	Configuration Source Configuration File Device Latest Backup Factory Defaults Target Devices	NA646			•
Update Firmware	Refresh  Grouping Interfa	ce Type +	Filter Filter	Latest Backup Date Firmware Version	Status
Reader Groups	Network	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1001000		
Image Playback	DM260-abenko	DM260	10.86.80.14	5.7.0	Discovered
Ontions	DM260-aremenyi	DM260	10.86.80.133	5.7.0	Discovered
About	M260-gabor	DM260	10.86.80.8	5.7.0	Discovered
About	DM262-aremenyi	DM260	10.86.80.178	5.7.0	Discovered
EXIL	DM302-abenko	DM300	10.86.80.63	5.7.0	Discovered
	M302-TKAROLY	DM300	10.86.80.18	5.7.0	Discovered
	DM363-1A1453XN018104	DM360	10.86.80.96	5.7.0	Discovered
	M363-1C8BBC	DM360	10.86.80.139	5.7.0_rc3	Discovered
	M474-4DA646	DM470	10.86.80.35	6.0.1_a9	Discovered
	M474-4DA65C	DM470	10.86.80.33	6.0.1_a9	Discovered
	M474-4DC28A	DM470	10.86.80.25	6.0.1_a9	Discovered
	DM474-4DC296	DM470	10.86.80.38	6.0.1_a9	Discovered
	M503-41DAEC	DM503	10.86.80.91	5.7.0	Discovered
	4		111 -		•
					Restore +

## **Update Firmware**

The **Update Firmware** page allows you to update the selected device or devices to the desired firmware version. Browse for firmware files by clicking the '...' icon, the pop-up window navigates to the right folder automatically. After selecting the firmware file, click the **Update Firmware** button to initiate the update.

SIF 🖳 🛈 🗰		DataMar	SetupTool		- (	e 83
Home View					Q &	A Help
Connect	Firmware File					
Maintenance	C:\Program Files (x86)\Common Files\Cognex\Da	ataMan\Firmware\D	M50\DM50_DM60_DM70_DM150	_DM260_v5.7.0_rc4.bin.gz		النتنا
Repair & Support	Target Devices CRefresh  Grouping Interface Type	e 🔹 Filter F	lter 💌 📩	🔲 View Hidden (0)		
Backup	Name	Туре	Address Firmware Versi	ion	Status	Open 🔺
Restore	<ul> <li>Serial</li> </ul>					
Undate Firmware	DataMan 50 Series CDC port	DM50	COM9		Unknown	
The decision in the decision	Zama Z COM1	RS232	COM1		Unknown	
Reader Groups	Zama COM3	RS232	COM3		Unknown	
Image Playback	A D Natwork					
Options						
About	RTM Lean	CogExRTM	127.0.0.1		Discovered	
Exit	- 🦿 DM60-1BC318	DM60	10.86.80.100 5.7.0_rc4		Discovered	1.2.7
	С С С С С С С С С С С С С С С С С С С	DM60	10.86.80.114 5.7.0_rc4		Discovered	
	M260-1CBEC6	DM260	10.86.80.84 5.7.0_rc4		Discovered	
	M260-40903C-egret	DM260	10.86.80.2 5.7.0_rc1		Discovered	
	🧊 DM262	DM260	10.86.80.30 5.7.0_rc4		Discovered	
	- M302-18C1D4	DM300	10.86.80.94 5.7.0_rc4		Discovered	
	() DM302	DM300	10.86.80.62 5.6.3		Discovered	
		101				*
-					Upload	Firmware

## **Device Grouping**

Device grouping helps you manage a larger number of devices, as well as define the Multi-Reader Sync groups in an easy way. The DataMan Setup Tool offers built-in groups on the device list page, (see the section on the <u>Connect</u> backstage page), and you can also specify your own custom groups. Creating a new user-defined group or editing an existing group can be started from the <u>Reader Groups</u> backstage page.

### **Reader Groups**

The available readers can be grouped on a custom basis and you can organize your readers in a custom tree. The list of already created custom groupings is shown on the left. When you select a custom group, it gets displayed on the right as a "preview".

Example:

S / F 🖳 🕑 🖩			DataMar	SetupT	ool		0	• 83
Home Edit Groups V	ïew							Q&A Help
Connect	🗋 New 💢 Delete 🚢 Export 🚢	7 Import						
Maintenance	Available groupings		Preview of: Fruit					
Repair & Support Backup	Name Example Fruit	Last Modified 2017.11.09.10:26:56 2017.11.09.10:28:06	Name	Туре	Address	Firmware Version		Status C Unknown
Restore			Apple	DM470	10 86 80 24	6.0.1		Unknown
Update Firmware			4 Pear	. Silling	10.00.00.2			Unknown
Image Playback			M302-TKAROLY	r DM300	10.86.80.18	5.7.0_rc2		Discovered
Options								
About								
Exit								
								P
-								Open

The following options are available on this page:

- Opening an existing group
- · Creating a new group
- Deleting an existing group
- Exporting an existing group
- Importing saved groups to Setup Tool

### **Custom Grouping**

Custom groupings are displayed in a tree structure. You can select different nodes and start different operations on them with the buttons on the ribbon bar that belong to this type of document. The group editor tree supports drag and drop functionality, too. The group editor auto-hide ribbon appears by clicking the **Edit Groups** tab.

#### **Backstage Pages**

× Remove

1 月 東 ③ 離		DataMan SetupT	ool				-	۵	23
Home Edit Groups View							Q & A	Help	~
Save New Remove Remove Remove Group Info	Move Nodes	Grouping Interface Type  Filter Refresh B Discovered Devices	Expand All Collapse All	Connect					
Grouping: Example O Grouping: Fruit O					4 Þ ×	Image Panel		а >	N8S
Edited Gr_ Grouping is valid.	Disc	covered Devices				-			ISIL 11
Name Type Address Firmware Version	Na	me	Туре	Address	Firm 🔺				No
4 Fruit		Network							
4 Pple		DM60-abenko	DM60	10.86.80.5	5.7.0				
M473-3D7E9A DM470 10.86.80.24 6_0_1		DM60-aremenyi	DM60	10.86.80.100	5.7.0				
4 Pear		DM260-gabor	DM260	10.86.80.8	= 5.7.0				
M302-TKAROLY DM300 10.86.80.18 5.7.0_rc2		DM262-aremenyi	DM260	10.86.80.178	5.7.0				
		DM302-abenko	DM300	10.86.80.57	5.7.0				
	0	M302-TKAROLY	DM300	10.86.80.18	5.7.0				
		OM363-1A1453XN018104	DM360	10.86.80.96	5.7.0				
		100473-3D492A	DM470	10.86.80.38	Deve				
		M473-3D492C	DM470	10.86.80.43	Deve				
		DM473-3D5E16	DM470	10.86.80.117	Deve				
		DM473-3D7E92	DM470	10.86.80.7	6.0.1				
		M473-3D7E98	DM470	10.86.80.58	Deve				
	4		064470	10 00 00 04		Image Panel O Code Qual	ty O	4 0 3	×

The group editor has two device tree controls: the one on the left is the tree of the currently edited group, whereas the one on the right is the list of discovered devices. Filtering, grouping and sorting is available on this device tree (see *Connect* for details). For group editing, the following options are available:

- Creating a new group node: If a new group is created, it automatically gets a root node. The name of the root node is also the name of the custom group. For each group, there can be only one root node. To create a new group node, select the desired target node (which *must not* be a device node) and click the **New Group** button (
- Adding a device to a group node: Select one or more devices in the right-hand side device tree (Discovered

Devices) and use the **Add Discovered Device(s)** (<sup>100</sup>) button to add it to the currently selected group node on the left side (Edited Grouping). Alternatively, you can drag and drop a device from the right to the target grouping node on the left.

- Removing a device or group node: Select the target node(s) on the left and click on the Remove Node ( Node ) button on the ribbon bar.
- Renaming a Group: Click into the node's name, press F2 on the keyboard or click the Rename Group button (



Group ). In the case of a root node, the whole grouping gets renamed. After the renaming is initiated by one of these methods, the group name becomes editable in the tree.

• Moving a node: You can move a node in the edited tree. A node can be moved either up or down in its current



group, into the next group or out of the current one. After selecting the desired node to move, the option becomes available in the ribbon bar with the following arrows becoming green:

- Down Move the node down among its siblings.
- Up 1: Move the node up among its siblings.
- Out of Current Group 🖛: Move the node up one level (out of the current group).
- Into Next group ➡: Move the node down one level (into the next group).



Expand and collapse buttons ( All eAll ) are also available to expand or collapse the full tree, or you can expand or collapse specific nodes by clicking on the triangle left of the node.

## Managing Multi-Reader Sync Groups

In DataMan Setup Tool, Multi-Reader Sync configuration is part of the <u>grouping editor</u>, but the ribbon bar also has tools to configure the Multi-Reader Sync trigger group. The following Multi-Reader Sync group management options are offered by Setup Tool:

• Making a group to be a Multi-Reader Sync trigger (MRS) group: By selecting a valid group node (the name of the group is fit to be an MRS group name) and pressing the **Toggle Group Triggering** button, the devices in the group are set to be part of the MRS group with the name of the group node's name. This option is available only if *all* readers in the group support Multi-Reader Sync triggering.

• Clearing a Multi-Reader Sync group triggering: By selecting an MRS group node and clicking the Disable Group Triggering button, the MRS group entries are removed from all devices in the group.

• Setting the Primary device: Some trigger modes may require to explicitly specify the Primary device. This can be achieved by selecting a device in a Multi-Reader Sync group and clicking on the **Set Primary Device** button. This function is also available in the case of trigger types that do not require a specified primary device, so it can be stored in the custom-edited grouping and be displayed at a later time.

• **Misconfigured MRS groups**: It is possible that the data regarding Multi-Reader Sync group triggering becomes different in the device from what was stored in SetupTool II. Warnings appearing in such cases help you identify these issues. The warning messages are the following:

• **Incompatible trigger types**: If the devices in the MRS group have incompatible trigger types, the node of the MRS group has a warning sub-node that displays this information. This is an error.



• **Primary device not specified**: The MRS group may not require a Primary device, but some trigger modes do require it, so this message is only shown as a warning.



• **MRS group name mismatch**: It is possible that the MRS group name stored in the device is different from what is stored in your own grouping. This is considered to be a major issue, so it is also shown as an error.



• **MRS info not available**: Discovering exact information about Multi-Reader Sync trigger settings cannot be done without at least a "minimalist" connection. Until the valid information is retrieved by pressing the **Refresh** button, this information entry is shown for the device.



Note Icon	9: 5:			
_ <u>//</u>	error			
U 🍋	warning			
/≞	information			

## **Image Playback**

For using the information in this backstage page, it is not necessary that a reader be connected to the DataMan Setup Tool. This page lets you control what images are recorded and saved on the PC, it lets you view images that were transferred to the computer as set in **Settings > Buffering & Transfer**.



The images will be opened on the Playback tab:

### Backstage Pages

	F 💻 🖩 👘 — — —	DataMan SetupTool	0		23
H	ome Image Playback V	iew	Q&A	Help	~
B	agin Back Forward End	▶     II     O     Playback delay:       Play     Pause     Stop     □       Playback     Playback			
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[1	5:48:55.153]1008797010000	1 Untrained			)

# Options

The Options Dialog of the DataMan Setup Tool offers you to do settings in the application according to your preferences.

On the **General** tab, you can set the way according to which the read string will be decoded. Here, you can also select the color scheme (Silver, Blue or Black) of Setup Tool itself, and you can also select a category (Layout, Communication, Language, Codepage or Data logging) which you want to reset to defaults.

Man SetupTo	olOptions	And a second sec				X
General	Data Logging		-	Central European (Windows)	•	
Codepage for C	Code Display			Western European (Windows) Greek (Windows)		
Available Coo	depages	Central European (Windows)	•	Turkish (Windows) Hebrew (Windows)		
Color Scheme S	Selector			Arabic (Windows) Baltic (Windows)		
Color Scheme	e	Silver	-	Vietnamese (Windows) Korean (Johab)		
Reset Settings		Silver Black		Western European (Mac) Japanese (Mac)		
Setting Categ	ory to Reset	Communication	Reset	Chinese Traditional (Mac) Korean (Mac)		
Backup Locatio	on	Layout Messages not to be shown again		Arabic (Mac) Hebrew (Mac)		
C:\Users\gma	acsai\Documents\Co	gnex\DataN Data logging Excluded devices		Greek (Mac) Cyrillic (Mac)		
Cognex Suppor	rt File Default Export	Folder		Romanian (Mac)		
C:\Users\gma	acsai\Documents\Co	ognex\DataN RTM Lean - All Settings Default folders		Thai (Mac)		
Image Buffering	g and Transfer —	Virtual Devices		Icelandic (Mac)		
Transfer Fold	n SetupToolOptions  aral Data Logging  epage for Code Display ailable Codepages Central European (Windows)  r Scheme Selector Ior Scheme Blue et Settings Black tting Category to Reset Kup Location Kup Location Kuper Support File Default Export Folder Excluded devices Codepage Inex Support File Default Export Folder Language Users\gmacsai\Documents\Cognex\DataN Default folders ge Buffering and Transfer ansfer Folder C:\Users\gmacsai\Documents\DataMan Images		Croatian (Mac) Unicode (UTE-32)			
				Unicode (UTF-32 Big-Endian) Chinese Traditional (CNS)		
				TCA Taiwan	Ψ.	
						_
				ОК	Cancel	1

On the **Data Logging** tab, you can set the folders into which *result codes*, *decoded images*, *no-read images* and *reports* are to be saved.

### Options

aMan SetupToolOptio	ons		
General Data	Logging	•	Show All
Result Code			Options
Path	C:\Users\ xyz \Documents	Browse	What can I set in the Options page? What settings are available on the Data Logging
File Name			tab?
Decoded Images			We have a set of the generation of data validation reports?
Path	C:\Users\ xyz \Documents	Browse	
Filename Prefix			
🔲 Include Overlay G	raphics (SVG)		
No Read Images			
Path	C:\Users\ xyz \Documents	Browse	
Filename Prefix			
Include Overlay G	raphics (SVG)		
Reporting			
Path	C:\Users\ xyz \Documents	Browse	
Filename Prefix			
Filename Structure	Include timestamp	•	
Preferred File Extensi	.pdf	•	
Include Overlay G	raphics (SVG)		
			OK Cancel

# Help

When using the DataMan Setup Tool, a powerful help option helps you to find answers to your questions about the available options and settings.

Upon opening the DataMan Setup Tool, you will see a Help button towards the top right corner of the window. By

clicking this, Setup Tool offers you the About option. Click on this button to view basic information on the Setup Tool version you currently use:



(i) Note: This window is also available via the Home backstage by clicking About.

This option provides you with basic data about Setup Tool. However, you can also find information on the features and options provided in each tab, pane and document in Setup Tool.

Clicking the we button on a backstage page opens the Q & A related to that backstage page. For example, you will see the following questions when clicking this button on the **Reader Groups** backstage page:



Click on the little question mark icon in front of a question to see the relevant answer.

Or click Show All to open all the answers to the questions appearing in the Q & A pane.

After connecting to a device, you can access the Q & A pane related to each document and option if you navigate to the



View menu and click Q&A.

# Troubleshooting

## Image Acquisition

Symptom	Place	Solution
Image related properties cannot be changed.	Settings > Light and Imager Settings	Wait until the device finishes acquiring images or decoding, and try again.

### Communication

Symptom	Place	Solution
Setup Tool communications are corrupted.		Check the firewall or antivirus application installed on your computer. These can potentially interfere with Setup Tool communications. These communication issues can be fixed by allowing communication on the appropriate ports, Cognamer: 1069 and Setup Tool: 44444.
The reader does not appear in the list of <b>Discovered</b> <b>Devices</b> .	Connect	1. Check your Ethernet connection with the reader and click <b>Refresh</b> .
	Reader Maintenance	<ol> <li>Scan the Enable DHCP code in the Reader Configuration Codes document available from the Start menu. This might allow the reader to acquire a suitable IP address from a DHCP server on your subnet.</li> </ol>
		<ol> <li>If the reader still does not appear, you can use the Add Network Device option in Reader Maintenance.</li> </ol>
		<ol> <li>You can also use the RS-232 connection to configure the reader with parameters that allow it to communicate over your Ethernet network.</li> </ol>

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