

Data Capture for Workforce in Motion

BaracodaManager for PC

User Guide

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Revision History

Changes to the original manual are listed below.

Docume	ent Date	Description
3.34	13 th June 08	Initial release
3.34.1	18 th August 08	TagRunners added, new master mode added
3.35	16 th October 08	TagRunners RFID options added
3.35.2	22 nd December 08	GUI modifications, BRRT plugin added
3.36	2 nd March 09	DualRunners added
3.36.3	17 th September 09	Version updated
3.37	3 rd February 10	Signature (BRR Evolution 2D, BDR 2D) added
3.38	23 rd November 10	C&S and Manual autoscan added, signature/picture capture modified
3.39	11 th April 11	New D-Fly options added



Introduction

The BaracodaManager for PC software allows the user to easily operate their barcode reader(s), including:

- Connecting automatically to the barcode reader(s) that the user wants to use
- Inserting the scanned barcode to a selected field in the client application (<u>KEmul plugin</u>) or displaying it (<u>Terminal plugin</u>)
- Setting a barcode reader(s) parameters (PIN code and others)
- <u>Uploading data</u> saved in a reader(s) memory.

Requirements:

- Hardware: Pentium II class PC, CPU 200MHz or above
- RAM: 128MB or above
- OS: Windows XP/ Windows 2003 / Windows Vista / Win7
- A compatible Bluetooth driver

Compatible Bluetooth drivers:

- Widcomm Bluetooth stack / driver version 1.4.x.x or above
- Microsoft stack (Windows XP Service Pack 1 US version, Service Pack 2 worldwide, Windows Vista, Win7)

Note: the BaracodaManager for PC does not work with Plug&Scan dongles.

The **BaracodaManager for PC** and a complete list of compatible devices (Compatibility table) can be downloaded from the Partners download section of Baracoda website (registration is required):

http://www.baracoda.com



1. Overview

To set up the **BaracodaManager** and to configure it with their barcode reader(s), the user should check the following sections:

- Installation
- Getting Started

This section shows the user how to use the **BaracodaManager** icon and window during regular operation. For help on how to configure the **BaracodaManager** or how to set up the automatic connection mode – See section <u>Getting Started</u>.

1.1. BaracodaManager main window functions

In order to launch the BaracodaManager, the user can either double-click the desktop shortcut:



or they can use the Start Menu:





When the BaracodaManager is running its icon appears on the task bar:



If no barcode reader(s) are connected to the **BaracodaManager**, the inside color of the icon is white (as in the picture above).

The **BaracodaManager** automatically attempts to connect the barcode reader(s) which you have already configured. Its icon turns green as soon as it connects to at least one barcode reader:



The main window of the **BaracodaManager** is shown on the screenshot below:

Contware by baracoda	BM :	Hide 3.38	X Exit
Devices in Range Search a Add s Automatic My Paired Devices	elected	Name	BdAddr
Name	BT Address	Status	Plugin
BRRNA_3e7a BRRNA_3e6a BRRT_d6b6 BDF_5f3f BDR_796e	00:18:9a:01:3e:7a 00:18:9a:01:3e:6a 00:18:9a:20:d6:b6 00:a0:96:25:5f:3f 00:18:9a:01:79:6e	Disconnected Disconnected Disconnected Disconnected Disconnected	Terminal Terminal KEmul Terminal Terminal
Connect Upload	Settings		Remove

The "My Paired Devices" section of the window shows the configured barcode reader(s) and their connection status (Connected/Disconnected/Connecting).

The table below shows the main functions available in the **BaracodaManager** main window (for details, see the Functions section):

Button	Corresponding action		
Search all devices	Find all discoverable barcode readers (which are within the Bluetooth radio signal range).		
Add Selected	Add the selected barcode reader to the list of configured (paired) barcode readers (in the "My Paired Devices" list).		
Automatic connection			
Settings	Set the parameters of the selected barcode reader.		
Disconnect/Connect	Disconnect the selected barcode reader or connect a disconnected barcode reader.		
Upload	Upload barcodes previously stored in the selected barcode reader's non-volatile memory.		
Hide	Hide the BaracodaManager window in the system tray. Double-click the icon in order to bring it back to the foreground.		
Exit	Quit the BaracodaManager and save information on the configured barcode reader(s). The Bluetooth radio connections are closed. The barcode reader(s) switches to stand-by mode.		
Check box, left of the barcode reader's ID	Set the autoconnect mode for the barcode reader: the BaracodaManager automatically tries to connect to the barcode reader.		



2. Installation

To use Baracoda barcode reader(s), the client needs to complete the following tasks in sequence:

- Install the Bluetooth stack software (if not installed yet)
- Install the BaracodaManager
- Configure the BaracodaManager with barcode reader(s)

To complete the first two tasks (installing the Bluetooth stack software and the Baracoda Manager):

- 1. Contact your Baracoda reseller to obtain the **BaracodaManager** installation file or download it from the download section of the website (<u>www.baracoda.com/download</u>).
- 2. Install the Bluetooth stack according to the instructions provided in the installation package or by the installation wizard itself.
- 3. Restart the computer, if necessary.
- 4. A Bluetooth Configuration icon should appear in the system tray, indicating that Bluetooth wireless communication is active.
- 5. Double click on the **BaracodaManager** installation file:
 - for the PC version: BM_PC_3.xx.exe
- 6. Let the installation wizard guide you through the installation steps. Be sure the following boxes are checked :
 - Baracoda Manager
 - Start Menu Shortcuts

At this moment, everything is ready to complete the third task, that is configuring the **BaracodaManager** with the user's barcode reader(s). See the next section, <u>Getting started</u>.

3. Getting started

This section shows the user how to configure the **BaracodaManager** to connect and use their barcode reader(s).

Since the BaracodaManager version 3.38, two ways of connecting a reader are possible:

- using Bluetooth inquiry to find a reader and then connect it (available on all supported Bluetooth stacks)
- using the Connect&Scan method (scanning a connect barcode) to connect a reader without launching a Bluetooth inquiry (available only on the Microsoft Bluetooth stack)

3.1. Using Bluetooth inquiry to find readers

To configure the barcode reader(s):

- 1. Turn on the barcode reader(s) and the computer on which the **BaracodaManager** has been installed.
- 2. Double-click the **BaracodaManager** icon in the system tray (if you do not find the **BaracodaManager** icon, start the **BaracodaManager**). The **BaracodaManager** window appears:
 - the "Devices in Range" section of the window lists the barcode reader(s) the Baracoda Manager finds within Bluetooth radio range
 - the BaracodaManager displays a progress bar just below the above list while it searches for discoverable barcode readers

Note: if the user has already run the **BaracodaManager** and configured their barcode reader(s), they should go to step 9 below.





3. Select a barcode reader (in the "Devices in Range" list) by clicking on it, then click on the "Add Selected" button. A Bluetooth message appears near the system tray:



4. Click on the Bluetooth icon in the system tray. A Bluetooth passkey window appears:

Bluetooth	Security Code Request	
P	Device Name:	BRRNA_7aad
·	Before a connection can be establis listed above must be "paired."	hed, this computer and the device
	Paired devices exchange a secret k key is unique for each pair of device encrypt the data that the devices ex	ey each time they connect. This s; it is used to verify identity and to change.
	To pair with this device, enter the de	evice's security code and click OK.
	Bluetooth security code:	
	ОК	Cancel Help

5. Enter the barcode reader PIN/Passkey code (by default: "0000" – see <u>Functions</u> section to change the code).



- 6. The **BaracodaManager** is now configured with the user's barcode reader. The "My Paired Devices" section of the **BaracodaManager** window displays:
 - the AutoConnect box is checked. The BaracodaManager will try to automatically connect to the barcode reader at the beginning of the next session.
 - the barcode reader's identifier, name and Bluetooth address.
 - the connection status of the barcode reader. After a few seconds, the Status field switches from Disconnected to Connecting, then to Connected showing you that the barcode reader is ready to use.
 - the plugin, set by default to KEmul (see the <u>Plugins</u> section for KEmul information).



- 7. To change the plugin to be used for the barcode reader:
 - Click on the KEmul text in the Plugin column. A down-pointing arrow appears.
 - Click on the arrow. A list of plugins appears.
 - Select a plugin.
- 8. Repeat steps 3 to 7, to add any newly discovered barcode reader(s) to "My Paired Devices".
- 9. When the user ends the first session of the BaracodaManager, they should click Exit to save the barcode reader(s) Bluetooth Device Address(s) for future sessions. The BaracodaManager will reconnect to the barcode reader(s) when it is restarted, even if the user ends sessions of the BaracodaManager by switching off the computer instead of clicking the Exit button.
- 10. When the user starts the **BaracodaManager** again (either manually or automatically at system startup time):
 - the **BaracodaManager** tries to reconnect the barcode reader(s) which were previously configured (paired) and for which the AutoConnect mode is set (checkbox situated on the left of the barcode reader's identity information in the "My Paired Devices" list is checked).



 the BaracodaManager searches for all discoverable barcode reader(s) not previously configured (which are in the Bluetooth radio range and are in listening mode). This is true when there are no configured readers in the "My Paired Devices" list.

3.2. Using Connect&Scan to connect readers

To configure the barcode reader(s):

- 1. Turn on the barcode reader(s) and the computer on which the **BaracodaManager** has been installed.
- 2. Make sure that the Bluetooth stack on the PC is from Microsoft
- 3. Double-click the **BaracodaManager** icon in the system tray (if you do not find the **BaracodaManager** icon, start the **BaracodaManager**). The **BaracodaManager** window appears.
- 4. Make sure that there are no more than 6 readers in the My Paired Devices, otherwise it will not be possible to show the connect barcode.
- 5. Click the Automatic connection button in order to show the connect barcode

C baracoda	Hide X Exit
Devices in Re Connect barcode	ddr
By scanning this be automatically conn (*): except laser r (*): except laser r	parcode, the scanner (*) will be nected to the BaracodaManager. eaders.
BDR_796e 00:18:9	a:01:79:6e Disconnected Terminal
Connect Upload	Settings Remove

6. Scan the connect barcode with the reader



- 7. The **BaracodaManager** is now configured with the user's barcode reader. The "My Paired Devices" section of the **BaracodaManager** window displays:
 - the AutoConnect box is checked. The BaracodaManager will try to automatically connect to the barcode reader at the beginning of the next session.
 - the barcode reader's identifier, name (or CS reader if it is a new reader) and Bluetooth address.
 - the connection status of the barcode reader (Connected showing you that the barcode reader is ready to use).
 - the plugin, set by default to KEmul (see the <u>Plugins</u> section for KEmul information).

Contware by baracoda	BM :	<u>Hide</u>	X Exit
Devices in Range Search a Add s Automatic My Paired Devices	elected	Name	BdAddr
Name	BT Address	Status	Plugin
 BRRNA_3e7a BRRNA_3e6a BRRT_d6b6 BDR_796e ✓ CS reader 	00:18:9a:01:3e:7a 00:18:9a:01:3e:6a 00:18:9a:20:d6:b6 00:18:9a:01:79:6e 00:a0:96:25:5f:3f	Disconnected Disconnected Disconnected Disconnected Connected	Terminal KEmul KEmul Terminal KEmul
Connect Upload	Settings		Remove

- 8. To change the plugin to be used for the barcode reader:
 - Click on the KEmul text in the Plugin column. A down-pointing arrow appears.
 - Click on the arrow. A list of plugins appears.
 - Select a plugin.
- 9. Repeat steps 5 to 7, to add any new barcode reader(s) to "My Paired Devices".
- 10. When the user ends the first session of the BaracodaManager, they should click Exit to save the barcode reader(s) Bluetooth Device Address(s) for future sessions. The BaracodaManager will reconnect to the barcode reader(s) when it is restarted, even if the user ends sessions of the BaracodaManager by switching off the computer instead of clicking the Exit button.
- 11. When the user starts the **BaracodaManager** again (either manually or automatically at system startup time):
 - the **BaracodaManager** tries to reconnect the barcode reader(s) which were previously configured (paired) and for which the AutoConnect mode is set (checkbox situated on the left of the barcode reader's identity information in the "My Paired Devices" list is checked).
 - the **BaracodaManager** searches for all discoverable barcode reader(s) not previously configured (which are in the Bluetooth radio range and are in listening mode). This is true when there are no configured readers in the "My Paired Devices" list.

Notes:

If the user switches off a barcode reader (with the reset switch or through time-out) and they switch it on again, the **BaracodaManager** reconnects to the barcode reader. In the situation where the "Real time" mode and "No data loss mode" options are enabled (see <u>Functions</u> section: Setting parameters), if the user takes the barcode reader out of range (more than 15-70 meters from the computer, depending on the Bluetooth emission power) and the connection is lost, the barcode reader will store any scanned barcode(s). When the user brings the reader back within range, the **BaracodaManager** reconnects automatically and the stored barcodes are then uploaded.

4. Functions

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4.1. Adding/removing a barcode reader

The first time the user runs the **BaracodaManager**, it searches for all Bluetooth barcode readers which are discoverable (in listening mode and within Bluetooth radio range). The "Devices in Range" section of the **BaracodaManager** window displays the readers found.

To add a barcode reader to the "My Paired Devices" list, the user should select the reader (in the "Devices in Range" section of the window) and click on the "Add to Paired" button.

The "My Paired Devices" list displays the barcode reader's:

- AutoConnect status (set by default)
- ID: number assigned by the BaracodaManager
- Name: device name
- Bluetooth device address (BdAddr)
- Connection status: Connected, Disconnected, Connecting
- Associated plugin (KEmul by default).

If the **BaracodaManager** does not find the user's barcode reader, they should make sure that their Bluetooth device is in listening mode and click on the Search button to restart the search.

To remove a barcode reader, select it in the "My Paired Devices" list and click on the Remove button. The **BaracodaManager** will remove the reader from the "My Paired Devices" list.

4.2. Disconnecting a barcode reader

To close the Bluetooth radio connection between the **BaracodaManager** and the selected barcode reader, select the barcode reader in the "My Paired Devices" list and click the Disconnect button. The barcode reader returns to discoverable (listening) mode. The AutoConnect mode is deactivated.

4.3. Setting parameters of a barcode reader

To set the parameters of a barcode reader, select it in the "My Paired Devices" list and click on the Settings button. A Settings window related to your barcode reader appears.



5. Baracoda Pencil settings

Baracoda Pencil 1.1 Settings 🛛 🛛 🔀			
General Name:	BaracodaPencil	Radio: Pencil CSR_v1.6 Decoder: BPU_1.5	
Operating mod	ect Batch config	Shutdown timers When connected: 20 Not connected: 6	
Master Host adr:	:01:01:01:01:91	Other settings Product Bluetooth Symbology	
Default setting:	s Upgrade	Cancel Save	

The Settings window displays eight buttons and four groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Radio	Version of Bluetooth chipset
Decoder	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Auto connect	Default setting. No more a valid setting, so select another one at the first set
	up.
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and
	can be uploaded to the application later (click on "Batch config" for more
	advanced settings)
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application
	immediately when the Bluetooth radio connection is active. If the connection
	is not established the barcodes are lost, unless "Enable Buffering" is set (see
	below).
Master	Set the Master mode: The barcode reader automatically creates connection
	to the specified Host device when the user scans a barcode. Then the reader
	works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of
	the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

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The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and
	the factory default parameters are restored. Check the device manual for
	details.
Upgrade	Upgrade the BaracodaPencil with the latest version of the firmware. See
	<u>Chapter 16</u> for more information about the upgrade procedure.

5.1. Product settings

To find out more about the product settings, please refer to the barcode reader User Manual.



5.2. Bluetooth settings



b	aracoc Traceabil	a lity		Data Capture for Workforce in Motion
	Check the box to enable/disable decoding of the selected type of barcodes	5.3.	Symbology settings Symbology (Code 39) Code 128 Code 128 Code interleaved 2/5 Code CODABAR EAN13 EAN13 EAN128 in text format Code CODABAR Flags enable	In Motion
			Cancel Save	

5.4. Batch mode settings

The Batch mode configuration displays three buttons and give the choice between:

- 1. Upload barcodes to a file
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - o Generate a different file name for every upload ("Add timestamp to file name")
- 2. Upload barcodes to an application window

(for more information see the paragraph "Uploading data stored in batch mode")

Batch mode configuration		
-Upload barco	des	
💿 To file	C:\BaracodaUpload.txt	Browse
To application window		
File name generation		
Overwrite last upload file		
 Append data to last upload file 		
O Add tim	estamp to file name	
	Cancel	ОК

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window



6. BaracodaPencil2 settings

Pencil2 Settings	
General Name: Pencil2_e3d2	Application: BaracodaPencil2 1.34
Operating mode Real time Batch Batch config	Shutdown timers Battery When connected: 3 minutes Not connected: 2 minutes Level: 100% Charging: NO
Master Host adr: 00:00:00:00:00:00	Other settings Product Bluetooth Symbology
Default settings Upgrade	Cancel Save

The Settings window displays eight buttons and five groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Battery
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Application	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and
	can be uploaded to the application later (click on "Batch config" for more advanced settings)
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application immediately when the Bluetooth radio connection is active. If the connection is not established the barcodes are lost, unless "Enable Buffering" is set (see below).
Master	Set the Master mode: The barcode reader automatically creates connection to the specified Host device when the user scans a barcode. Then the reader works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The following table shows the Battery field:

Field	Functionality
Battery	Battery level (0-100%) and its current charging status.

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The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade	Ugrade the reader's firmware. Please check <u>Chapter 16</u> for details.

6.1. Batch mode settings

The Batch mode configuration displays three buttons and give the choice between:

- 1. Upload barcodes to a file
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - Generate a different file name for every upload ("Add timestamp to file name")
- 2. Upload barcodes to an application window

(for more information see the paragraph "Uploading data stored in batch mode")

Batch mode	configurat	ion			X
-Upload barco	odes				
To file	C:\Baracoda	Upload.txt	_	Browse	
🔿 To appl	ication windov	v			
-File name ge	neration				
Overwrite last upload file					
 Append data to last upload file Add timestamp to file name 					
		Cancel		ОК	

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window



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6.2. Product settings



To find out more about the product settings, please refer to the barcode reader User Manual.

6.3. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.





6.4. Symbology settings

To find out more about the Symbology settings, please refer to the barcode reader User Manual.



7. BL1000 settings

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BL1000 Settings		×
General Name: BL10 PIN code: 0000	00 Radio: MVISFlic BCSR 1.32 Decoder: 2.9.0	
Shutdown timers When connected 60 sec When disconnected 2 min		
Acknowledgemen	: beep	
Default Settings	Cancel Save	

The Settings window displays three buttons and two groups:

- General information
- Shutdown Timers

The following two tables show the General information fields:

Field	Functionality
Radio	Version of Bluetooth chipset
Decoder	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader
PIN code	The pin code used to authenticate the barcode reader

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in seconds) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When disconnected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The table below shows how to use the acknowledgement beep checkbox:

Field	Functionality
Acknowledgement beep	If checked, configure the reader to beep once when the barcode sent to the
	host is acknowledged

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.

8. D-Fly settings

DFly Settings	×
General Name: BDF_a913	Application: Baracoda Libellule 1.34
Operating mode © Real time © Batch Batch config	Shutdown timers Battery When connected: 3 minutes Not connected: 2 minutes Level: 100% Charging: NO
Master Host adr: 00:09:2d:23:8c:0a	Other settings Product Bluetooth Symbology
Default settings Upgrade	Cancel Save

The Settings window displays eight buttons and five groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Battery
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Application	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and can be uploaded to the application later (click on "Batch config" for more advanced settings). Batch mode is supported on D-Fly with P/N value "B401202xx" (firmware v1.54 and newer).
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application immediately when the Bluetooth radio connection is active. If the connection is not established the barcodes are lost, unless "Enable Buffering" is set (see below).
Master	Set the Master mode: The barcode reader automatically creates connection to the specified Host device when the user scans a barcode. Then the reader works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The following table shows the Battery field:

Field	Functionality
Battery	Battery level (0-100%) and its current charging status.



The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and
	the factory default parameters are restored. Check the device manual for
	details.
Upgrade	Ugrade the reader's firmware. Please check <u>Chapter 16</u> for details.

8.1. Batch mode settings

Please note that the batch mode is supported on D-Fly with P/N value "B401202xx" (firmware v1.54 and newer).

The Batch mode configuration displays three buttons and give the choice between:

- 1. Upload barcodes to a file
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - o Generate a different file name for every upload ("Add timestamp to file name")
- 2. Upload barcodes to an application window

(for more information see the paragraph "Uploading data stored in batch mode")

Batch mode	configurat	ilon		×
-Upload barco To file To appl	odes C:\Baracoda ication windov	uUpload.txt	Browse]
File name ge O Overwr O Append Add tim	neration ite last upload I data to last u estamp to file	d file upload file : name		
		Cancel	ОК	

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window



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8.2. Product settings



To find out more about the product settings, please refer to the barcode reader User Manual.

8.3. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.





8.4. Symbology settings

To find out more about the Symbology settings, please refer to the barcode reader User Manual.





9. Baracoda RoadRunners settings

RoadRunners Settings	×
- General Name: BRR	Radio: (c)Baracoda 2001-2005 AB v1.72 Decoder: Baracoda Abeille 3.38
Operating mode	Shutdown timers Battery When connected: 20 minutes Not connected: 10 minutes Level: 46% Charging: NO
Master Host adr: 00:00:00:00:00:00	Other settings Product Bluetooth Symbology
Default settings Upgrade	Cancel Save

The Settings window displays eight buttons and five groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Battery
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Decoder	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and
	can be uploaded to the application later (click on "Batch config" for more
	advanced settings)
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application immediately when the Bluetooth radio connection is active. If the connection is not established the barcodes are lost, unless "Enable Buffering" is set (see below).
Master	Set the Master mode: The barcode reader automatically creates connection
	to the specified Host device when the user scans a barcode. Then the reader
	works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of
	the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The following table shows the Battery field:

Field	Functionality
Battery	Battery level (0-100%) and its current charging status.

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The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade	Ugrade the reader's firmware. Please check Chapter 16 for details.

9.1. Batch mode settings

The Batch mode configuration displays three buttons and give the choice between:

- 1. Upload barcodes to a file
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - Generate a different file name for every upload ("Add timestamp to file name")
- 2. Upload barcodes to an application window

(for more information see the paragraph "Uploading data stored in batch mode")

Batch mode	configurat	ion		×
-Upload barco	odes		 	-
To file	C:\Baracoda	Upload.txt	Browse	
🔿 To appl	ication windov	v		
-File name ge	neration			
Overwrite last upload file				
 Append data to last upload file Add timestamp to file name 				
		Cancel	OK	

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window



9.2. Product settings

for Workforce in Motion To find out more about the product settings, please refer to the barcode reader User Manual.

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9.3. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.





9.4. Symbology settings

To find out more about the Symbology settings, please refer to the barcode reader User Manual.





RoadRunners Evolution Settin	gs 🔰
General Name: BRRNA_1afe	Application: Baracoda RRNA 1.46
Operating mode Real time Batch Batch config	Shutdown timers Battery When connected: 20 minutes Not connected: 10 minutes Charging: NO
Master Host adr: 00:00:00:00:00:00	Other settings Product Bluetooth Symbology Signature/image configuration
Default settings Upgrade	Cancel Save

The Settings window displays eight buttons and five groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Battery

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- Other Settings

The following two tables show the General information fields:

Field	Functionality
Application	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and
	can be uploaded to the application later (click on "Batch config" for more advanced settings)
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application immediately when the Bluetooth radio connection is active. If the connection is not established the barcodes are lost, unless "Enable Buffering" is set (see below).
Master	Set the Master mode: The barcode reader automatically creates connection to the specified Host device when the user scans a barcode. Then the reader works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The following table shows the Battery field:

Field	Functionality
Battery	Battery level (0-100%) and its current charging status.

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The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (not available for 2D readers, see below)
Signature/image	Access the signature mode and picture mode configuration (only for 2D
configuration	readers with firmware version >= 1.47, see below)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade	Ugrade the reader's firmware. Please check <u>Chapter 16</u> for details.



10.1. Batch mode settings

The Batch mode configuration displays three groups of controls:

- the "Upload barcodes/RFID tag IDs" group that lets the user specify whether the uploaded barcodes will be saved in a file or sent to an application window using keyboard emulation
 - \circ $\,$ If the user chooses to save the uploaded barcodes to a file, the filename can be specified in the text field
- the "Upload file name generation" method group
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - Generate a different file name for every upload ("Add timestamp to file name")
- the "Image upload file name generation" method group that lets the user specify the file name to which uploaded signature/image captures will be saved.

The format of the image filename will be the following:

AAA_Filename_BBB_CCC.jpg, where

AAA – reader's Bluetooth address (if the "Add reader Bluetooth address to filename" checkbox has been checked in <u>Signature/image capture configuration</u> settings)

Filename – filename specified in the "Image upload file name generation" group,

BBB – PC timestamp (year, month, day, hour, minute, second, millisecond)

CCC - reader timestamp (if the timestamp has been activated on the reader)

Batch mode	configuration		×
Upload barco	des/RFID tag IDs C:\BaracodaUpload.txt	_	Browse
C To appli Upload file (Overwr Append Add tim	cation window name generation ite last upload file data to last upload file estamp to file name		
-Image uploar C:\Baracoo	d file name generation daImageUpload.jpg		Browse
	Cancel		ОК

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window

For more information see the paragraph "Uploading data stored in batch mode".


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10.2. Product settings



10.3. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.



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10.4. Symbology settings

To find out more about the Symbology settings, please refer to the barcode reader User Manual.





10.5. Signature/image configuration settings

This configuration window allows the user to set up the signature and picture mode options.



The format of the image filename will be the following:

AAA_Filename_BBB_CCC.jpg, where

AAA – reader Bluetooth address (if the "Add reader Bluetooth address to filename" option is selected). <u>This setting also applies to batch mode.</u>

Filename - specified in the "Filename" text field

BBB – PC timestamp (if the "Add PC timestamp to filename" is selected). The timestamp format is YYMMDDHHMMSS.

CCC - reader timestamp (if the timestamp has been activated on the reader).

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<u>Please note that the above filename settings apply to real time mode only</u> (with the exception of the "Add reader Bluetooth address to filename" option which also applies to batch mode). To set the batch mode options, please refer to the <u>"Batch mode settings"</u> chapter.

11. Baracoda TagRunners settings

TagRunners Settings	
General Name: BRRT_d6b6	Application: Baracoda RRT 1.33c beta RFID: ProxRunners v1.46
Operating mode	Shutdown timers Battery When connected: 20 minutes Not connected: 10 minutes
	Other settings Product Bluetooth RFID Settings
Default settings Upgrade	Cancel Save

The Settings window displays eight buttons and five groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Battery
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Name	Bluetooth name of the RFID reader
Application	Version of embedded Baracoda software
RFID	Version of the RFID engine

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and can be uploaded to the application later (click on "Batch config" for more advanced settings)
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application immediately when the Bluetooth radio connection is active. If the connection is not established the barcodes are lost, unless "Enable Buffering" is set (see below).

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality	
When connected	Set the delay (in minutes) after which the barcode reader switches off, when	
	the barcode reader is connected and without any activity.	
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when	
	the barcode reader is not connected and without any activity.	

The following table shows the Battery field:

Field	Functionality
Battery	Battery level (0-100%) and its current charging status.

The following table shows the Other Settings buttons that you can set:

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Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
RFID Settings	Access types of RFID tags settings (see below)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and
	the factory default parameters are restored. Check the device manual for
	details.
Upgrade	Ugrade the reader's firmware. Please check <u>Chapter 16</u> for details.

11.1. Batch mode settings

The Batch mode configuration displays three buttons and give the choice between:

- 1. Upload barcodes to a file
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - Generate a different file name for every upload ("Add timestamp to file name")
- 2. Upload barcodes to an application window

(for more information see the paragraph "Uploading data stored in batch mode")

Batch mode configuration				
- Upload barc	odes			
To file	● To file C:\BaracodaUpload.txt Browse			
To application window				
File name generation Overwrite last upload file Append data to last upload file				
Add timestamp to file name				
	Cancel	ОК		

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window



11.2. Product settings

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To find out more about the product settings, please refer to the barcode reader User Manual.

11.3. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.



11.4. RFID settings

The RFID Settings window has three different tab controls. The first one, named "General", allows the user to activate/deactivate the Protocol ID transmission. When this option is active, every Tag ID will be prefixed by a symbol corresponding to the protocol of the read RFID tag. The list of available protocols is shown on the window:

RFID settings NXP ICODE-1	. PicoTAG S	.T. SR ASK CT	S256B/CTS512B	EPC HF v2	Enable/disable Protocol ID transmission
General	NXP Mifare keys	ISO <u>14443-A</u> bled	ISO 14443-B	ISO 15693	
Protocol: ISO/IEC 144 ISO/IEC 144 ISO/IEC 156 NXP ICODE-: Inside Conta S.T. MicroEle ASK CTS256 EPC HF Versi Unknown	43-A (or NXP Mifare 43-B 93 (e.g. TI Tag-it or L ctless PicoTAG ctronics SR 3/CTS512B on 2) NXP ICODE-SLI)	Protocol ID. [A] [B] [C] [D] [E] [F] [G] [I] [Z]		Protocol ID table

The second tab window of the RFID settings manages the NXP Mifare keys that are stored in the TagRunners memory:

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The other tab windows, named "RFID Protocols", can be used to enable/disable the type of RFID tags that will be read by the TagRunners reader.

To find out more about the RFID settings, please refer to the RFID reader User Manual.



12. Baracoda DualRunners settings

DualRunners S	Settings	
General Name:	BDR_796e	Application: Baracoda RRD 1.46 RFID: TagRunners v1.52.1
Operating mod Real time Batch	Batch config	Shutdown timers Battery When connected: 20 minutes Not connected: 10 minutes Charging: NO
Master	:00:00:00:00:00	Data capture mode
		Other settings Product Bluetooth Symbology RFID options Signature/image configuration
Default settings	; Upgrade	Cancel Save

The Settings window displays nine buttons and six groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Battery
- Data capture mode
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Application	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader
RFID	Version of the RFID engine

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and
	can be uploaded to the application later (click on "Batch config" for more
	advanced settings)
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application immediately when the Bluetooth radio connection is active. If the connection is not established the barcodes are lost, unless "Enable Buffering" is set (see below).
Master	Set the Master mode: The barcode reader automatically creates connection to the specified Host device when the user scans a barcode. Then the reader works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of
	the host device the reader has to connect to.

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The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The following table shows the Battery field:

Field	Functionality
Battery	Battery level (0-100%) and its current charging status.

The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)
RFID options	Access RFID settings
Signature/image	Access the signature mode and picture mode configuration (only for 2D
configuration	readers with firmware version >= 1.47, see below)

The table below shows the actions you can take with the Data capture mode radio buttons:

Button	Functionality
Both	Activates both the barcode scan engine and the RFID engine.
RFID	Activates the RFID engine and turns off the barcode scan engine.
Barcode	Activates the barcode scan engine and turns off the RFID engine.

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade	Ugrade the reader's firmware. Please check <u>Chapter 16</u> for details.



12.1. Batch mode settings

The Batch mode configuration displays three groups of controls:

- the "Upload barcodes/RFID tag IDs" group that lets the user specify whether the uploaded data will be saved in a file or sent to an application window using keyboard emulation
 - If the user chooses to save the uploaded data to a file, the filename can be specified in the text field
- the "Upload file name generation" method group
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - o Generate a different file name for every upload ("Add timestamp to file name")
- the "Image upload file name generation" method group that lets the user specify the file name to which uploaded signature/image captures will be saved.

The format of the image filename will be the following:

AAA_Filename_BBB_CCC.jpg, where

AAA – reader's Bluetooth address (if the "Add reader Bluetooth address to filename" checkbox has been checked in <u>Signature/image capture configuration</u> settings)

Filename – filename specified in the "Image upload file name generation" group,

BBB – PC timestamp (year, month, day, hour, minute, second, millisecond)

CCC - reader timestamp (if the timestamp has been activated on the reader)

B	atch mode configuration 🛛 🛛 🔀		
	Upload barcodes/RFID tag IDs To file C:\BaracodaUpload.txt Browse		
 To application window Upload file name generation Overwrite last upload file Append data to last upload file Add timestamp to file name 			
	Image upload file name generation C:\BaracodaImageUpload.jpg Browse		
	Cancel OK		

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window

For more information see the paragraph "Uploading data stored in batch mode".





12.3. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.





12.4. Symbology settings

To find out more about the Symbology settings, please refer to the barcode reader User Manual.



12.5. RFID settings

The RFID Settings window has three different tab controls. The first one, named "General", allows the user to activate/deactivate the Protocol ID transmission. When this option is active, every Tag ID will be prefixed by a symbol corresponding to the protocol of the read RFID tag. The list of available protocols is shown on the window:

RFID settings	Enable/disable Protocol ID transmission
General NXP Mifare keys ISO 14443-8 ISO 14443-8 ISO 15693	
Protocol ID transmission enabled	
Protocol: ISO/IEC 14443-A (or NXP Mifare) ISO/IEC 14443-B ISO/IEC 15693 (e.g. TI Tag-it or NXP ICODE-SLI) NXP ICODE-1 Inside Contactless PicoTAG S.T. MicroElectronics SR ASK CTS256B/CTS512B EPC HF Version 2 Unknown [Z]	Protocol ID table
Cancel	

The second tab window of the RFID settings manages the NXP Mifare keys that are stored in the DualRunners memory:

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The other tab windows, named "RFID Protocols", can be used to enable/disable the type of RFID tags that will be read by the DualRunners reader.

To find out more about the RFID settings, please refer to the RFID reader User Manual.

12.6. Signature/image configuration settings

This configuration window allows the user to set up the signature and picture mode options.



The format of the image filename will be the following:

AAA_Filename_BBB_CCC.jpg, where

AAA – reader Bluetooth address (if the "Add reader Bluetooth address to filename" option is selected). <u>This setting also applies to batch mode.</u>

Filename - specified in the "Filename" text field

BBB – PC timestamp (if the "Add PC timestamp to filename" is selected). The timestamp format is YYMMDDHHMMSS.

CCC - reader timestamp (if the timestamp has been activated on the reader).

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<u>Please note that the above filename settings apply to real time mode only</u> (with the exception of the "Add reader Bluetooth address to filename" option which also applies to batch mode). To set the batch mode options, please refer to the <u>"Batch mode settings"</u> chapter.

13. 2604 series settings (for BC2604, BL2604, BL2604)

BC2604/BL2604/BLR2604 Settings		
- General Name: Baracoda_2604	Radio: Elephant MCSR 1.70 Decoder: BT086	
Operating mode Real Time Batch Master	Shutdown timers When connected: 5 minutes Not connected: 2 minutes	
Host adr: 00:00:00:00:00:00	Product Bluetooth Symbology Advanced Cancel Save	

The Settings window displays eight buttons and four groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Radio	Version of Bluetooth chipset
Decoder	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: scanned barcodes are stored in non-volatile memory and
	can be uploaded to the application later (click on "Batch config" for more
	advanced settings)
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application
	immediately when the Bluetooth radio connection is active. If the connection
	is not established the barcodes are lost, unless "Enable Buffering" is set (see
	below).
Master	Set the Master mode: The barcode reader automatically creates connection
	to the specified Host device when the user scans a barcode. Then the reader
	works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of
	the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)
Advanced	Access advanced settings (only for developers working with Baracoda's API)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and
	the factory default parameters are restored. Check the device manual for
	details.

13.1. Batch mode settings

The Batch mode configuration displays three buttons and give the choice between:

- 1. Upload barcodes to a file
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - o Generate a different file name for every upload ("Add timestamp to file name")
- 2. Upload barcodes to an application window

(for more information see the paragraph "Uploading data stored in batch mode")

Batch m	ode configura	ition	×
-Upload • To	barcodes file C:\Baracod	laUpload.txt	Browse
C To application window			
File name generation Overwrite last upload file			
 Append data to last upload file Add timestamp to file name 			
		Cancel	ОК

Button	Functionality
Browse	Choose a file name and path to store the barcodes
ОК	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window



13.2. Product settings

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To find out more about the product settings, please refer to the barcode reader User Manual.



13.3. Bluetooth settings



To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.



13.4. Symbology settings



To find out more about the Symbology settings, please refer to the barcode reader User Manual.

13.5. Advanced settings

These settings are useful only to developers writing their own plugin (using the Baracoda API) who desire that their application send positive and negative acknowledgements to the barcode reader for every barcode received.



14. BCM2604 settings

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BCM2604 Set	tings	
- General Name:	Alex BCM2604	Radio: BCM2604-L_v1.03 Decoder:
Operating mod Real time Master	le	Shutdown timers When connected: 3 minutes Not connected: 2 minutes
Host adr: 0	:00:00:00:00:00	Other settings Product Bluetooth Count
Derault setting	15	Cancel

The Settings window displays five buttons and four groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Radio	Version of Bluetooth chipset
Decoder	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application
	immediately when the Bluetooth radio connection is active. If the connection
	is not established the barcodes are lost, unless "Enable Buffering" is set (see
	below).
Master	Set the Master mode: The barcode reader automatically creates connection
	to the specified Host device when the user scans a barcode. Then the reader
	works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of
	the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
When connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is connected and without any activity.
When not connected	Set the delay (in minutes) after which the barcode reader switches off, when
	the barcode reader is not connected and without any activity.

The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)



The table below shows the actions	you can take with the buttons.

Button	Functionality	
Cancel	Close window with no changes.	
Save	Store and send the new parameters to the barcode reader.	
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.	

14.1. Product settings

To find out more about the product settings, please refer to the barcode reader User Manual.

Check the box to activate Baracoda Header	Product Settings	Check the box to Activate no data loss mode (acknowledgement)
Check the box to activate prefix/suffix Configure the number of barcodes (1 or	Prefix/Suffix Asci O Hex Prefix: Suffix: Data format: Header Prefix Barcode Suffix Buffered barcodes	When Prefix/Suffix box is checked, select Data format (ASCII or Hex) and type values in active fields.
MAX) that are buffered by the reader (real time mode, reading barcodes while disconnected)	Max: MAX Cancel Save	Display the entire data format sent to the host device

14.2. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.



15. Baracoda ToughRunners and ScanWear settings

ToughRunners settings				
General Name: BTR 2346 Boot: BOOTTNM DM 02.00.06	521/02/08	Decoder: Radio:	Baracoda ToughR (c)Baracoda 2001	lunners v3.02.02 1-2007 SC v2.03
Operating mode		Shu 2	tdown timer 0 minutes	Battery Level OK
Master Most adr: 00:00:00:00:00:00:00:00:00:00:00:00:00	Other set Prod	ttings luct	Bluetooth	Symbology
Default settings Upgrade			Cancel	Save

The Settings window displays eight buttons and five groups:

- General information
- Current Operating Mode information
- Shutdown Timer information
- Battery

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- Other Settings

The following two tables show the General information fields:

Field	Functionality
Decoder	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader
Radio	Version of Bluetooth radio
Boot	Version of bootloader

The table below shows the user the Operating Mode options that they can set:

Field	Functionality
Real time	Set the Real-time mode: scanned barcodes are transmitted to the application
	immediately when the Bluetooth radio connection is active. If the connection
	is not established the barcodes are lost, unless "Enable Buffering" is set (see
	below).
Master	Set the Master mode: The barcode reader automatically creates connection
	to the specified Host device when the user scans a barcode. Then the reader
	works as in real time mode.
Host addr.	For use in Master mode : Set, in the address field, the Bluetooth address of
	the host device the reader has to connect to.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
Shutdown timer	Set the delay (in minutes) after which the barcode reader switches off without any activity.

The following table shows the Battery field:

Field	Functionality
Battery	Battery level (OK or low).

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The following table shows the Other Settings buttons that you can set:

Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)

The table below shows the actions you can take with the buttons:

Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and
	the factory default parameters are restored. Check the device manual for
	details.
Upgrade	Ugrade the reader's firmware. Please check <u>Chapter 16</u> for details.

15.1. Product settings

To find out more about the product settings, please refer to the barcode reader User Manual.





15.2. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.



15.3. Symbology settings

To find out more about the Symbology settings, please refer to the barcode reader User Manual.



16. IdBlue settings

IDBlue Settings	
General Name: IDBlue Firmware version: 07.02.04	Radio: (c)Baracoda 2001-2005 SM v1.72 CPU: (c)Cathexis Innovations, IDBlue v2.4
Device shutdown timer 5 minutes FProtocol C None • ISO 15693	Other settings Tag-IT HF Bluetooth
RFID shutdown timer Battery level Green LED flashing: Red LED flashing: re	battery OK charge battery OK Charge battery
Upgrade	Cancel Save

The Settings window displays eight buttons and five groups:

- General information
- Disconnected Mode information
- Shutdown Timer information
- RF Protocol
- Battery
- Other Settings

The following two tables show the General information fields:

Field	Functionality
Decoder	Version of embedded Baracoda software
Name	Bluetooth name of the barcode reader

The table below shows the user the Disconnected Mode options that they can set:

Field	Functionality
Batch	Set the batch mode: tags read when the reader is disconnected are stored in non-volatile memory and can be uploaded to the application later (click on "Batch config" for more advanced settings)
No batch	Set the no batch mode: tags read when the reader is disconnected are lost.

The following table shows the Shutdown Timer fields that you can set:

Field	Functionality
Device shutdown	Set the delay (in minutes) after which the barcode reader switches off
	without any activity.
RFID shutdown	Set the delay (in seconds) that the reader allocates for the user to read an
	RFID tag after the reader button has been pressed.

The following table shows the RF Protocol field:

Field Functionality	
None	Disable the engine reading RFID tags.
ISO 156693	Only ISO tags will be read.
Tag-IT HF	Only IT HF tags will be read.



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The following table shows the Battery field:

5	
Field	Functionality
Battery	Battery level (OK or recharge battery).

The following table shows the Other Settings buttons that you can set:

Button	Functionality
Bluetooth	Access Bluetooth connection settings (see below)
Blactooth	

The table below shows the actions you can take with the buttons:

Button	Functionality	
Cancel	Close window with no changes.	
Save	Store and send the new parameters to the barcode reader.	
Upgrade	Ugrade the reader's firmware. Please check <u>Chapter 16</u> for details.	

16.1. Batch mode settings

The Batch mode configuration displays three buttons and give the choice between:

- 1. Upload barcodes to a file
 - \circ Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - \circ ~ Append data to last upload file (default)
 - \circ $\;$ Generate a different file name for every upload ("Add timestamp to file name")
- 2. Upload barcodes to an application window

(for more information see the paragraph "<u>Uploading data stored in batch mode</u>")

Batch mode	configuration	X		
-Upload barco	des			
To file	C:\BaracodaUpload.txt	Browse		
🔿 To appli	cation window			
File name generation				
🔘 Overwrite last upload file				
Append	data to last upload file			
🔘 Add tim	estamp to file name			
	Cancel	ОК		

Button	Functionality	
Browse	Choose a file name and path to store the barcodes	
ОК	Close Batch configuration window without saving any modifications	
Cancel	Save the modifications and close Batch configuration window	

16.2. Bluetooth settings

To find out more about the Bluetooth settings, please refer to the barcode reader User Manual.

	Bluetooth settings	
Chack the box to	Transmission Sniff period: 150 ms	Select the duration of Sniff period
activate PIN code authentication	Security Finable PIN: 0000	Reader's PIN code, used when Security is enabled
	Cancel Save	



17. Uploading data stored in batch mode

This feature is supported by all readers with the exception of the BL1000, BCM2604 and some D-Fly (with firmware v1.54 and newer) reader models. Select a connected reader in the "My Paired Devices" list and click the Upload button to upload the stored barcodes.

Users can set the batch settings to one of the following options:

- Upload data to file (default option)
 - o Always upload to the same file, overwriting the previous content ("Overwrite last upload file")
 - Append data to last upload file (default)
 - Generate a different file name for every upload ("Add timestamp to file name")
 - Upload barcodes to application window

At the beginning of the upload operation a modal popup is shown:

Upload	
Upload operation has been started successfuly Please wait until this window disappears.	

This message will be displayed as long as the upload operation is in progress. When all barcodes have been uploaded, the user will be shown a confirmation popup:

Baracoda Manager 🗙				

Note: the reader will emit an acknowledgement beep when the upload has completed.

If the "Upload barcodes to application window" option has been chosen, after clicking Upload, the following message will be shown:



The user should make sure their application is active, then click on the pop up and immediately go back to the application where they want the barcodes to be uploaded.

Note: the upload operation can be launched by scanning the corresponding barcode from their programming guide. The reader should be connected to the **BaracodaManager** before this is done.

18. Firmware upgrade

This function is supported by all Baracoda readers with the exception of the the 2604 series and the BCM 2604. In order to upgrade their reader, the user should select a connected barcode reader in the "My Paired Devices" list and click the Settings button. Next, they should click on the Upgrade button.

-General Name:	Pencil2_e3d2	Firmware: BaracodaPencil2 1.32d beta
-Operating mo • Real time • Batch	de Batch config	Shutdown timers Battery When connected: 20 minutes Not connected: 10 minutes Charging: NO
Master Host adr:	0:00:00:00:00:00	Other settings Product Bluetooth Symbology
Default setting	gs Upgrade	Cancel Save

As soon as the button has been clicked, an open-file dialog window is shown. The user should browse for the upgrade file:

Open			? 🗙
Look in:	My Documents	• 🖿 🖆 🎫	
My Recent Documents Desktop My Documents	 BaracodaManager3 Bluetooth Bluetooth Exchange Folder Dokumenty AFi Mes fichiers reçus My Completed Downloads My Music My Pictures My Received Files My Skype Content My Skype Pictures My Videos 	 Toad Data Modeler Updater5 Visual Studio 2005 Visual Studio 2008 Visual Studio Projects XAML Documents Mes dossiers de partage 	
My Computer	 My videos O&O Poprawna SQL Server Management Studio Express 		
My Network Places	File name: Files of type: Baracoda CPU upgrade	file (*.bin)	Open Cancel

Current upgrade files can be found in the partners section of the <u>www.baracoda.com</u> website (registration is necessary). Any additional notes/instructions can be found in those files.



When the upgrade file has been specified, the **BaracodaManager** activates a modeless topmost window showing the progress of the upgrade operation:

R	Roadrunners Evolution Settings			
	General Name:	DDDMA 755F	13	
	Operating mod	opgrade	attery	
	🔘 Real time	Upgrade operation	evel: 100%	
	Batch	Please do not click any buttons until this window disappears.	harging: NO	
	🔘 Master			
	Host adr: 00.		Symbology	
	Default settings	Upgrade Cancel	Save	

The user should not try to close this window or click any **BaracodaManager** buttons or other GUI controls as long as the above dialog is visible.

When the upgrade operation has been completed, the user is shown the following popup:



Most readers (Pencil2, D-Fly, Roadrunners Evolution) turn themselves on automatically when they are ready to be used. The Roadrunners and Pencil need to be turned on (they turn themselves off when the upgrade operation is over).

Note: the upgrade process of the <u>Baracoda Pencil reader</u> is a little different from the schema presented above. The Pencil needs to have its firmware erased first and only afterwards can it be upgraded. The newest upgrade file (BPU_1_5.bpu) for the Baracoda Pencil reader can be found in the "upgrade" subdirectory of the **BaracodaManager** installation directory (by default "C:\Program Files\Baracoda Manager"). The **BaracodaManager** automatically detects if the reader's firmware needs to be erased (first upgrade operation) or if it can already be upgraded (second and final upgrade operation).

19. Plugins

19.1. Terminal plugin

The Terminal function allows the user to display scanned barcode(s) when the reader is connected in Real Time mode.

Terminal	
New data from reader 5: size = 14 58527X4LLQY005	
Clear	
Exit	



19.2. KEmul plugin

The KEmul function is to emulate keyboard strokes corresponding to scanned barcodes. With KEmul the user can send the barcode scanned by the barcode reader to the selected field of their application. For example, they can store the barcodes in an MS Excel or MS Word file.

By clicking on the KEmul icon in the system tray with the right mouse button and selecting Configuration, the user can configure a predefined prefix and/or suffix for data coming from the reader(s):



Configuration 🛛 🗙			
Prefix			
Virtual Key code:> 0 New			
Ctrl Alt Shift Enable			
Suffix			
Virtual Key code: 🗆> 13 🛛 New			
Ctrl Alt Shift I Enable			
Character suppression			
Delete first O characters			
Delete last 0 characters			
Force Caps Lock to off			
OKCancel			

The KEmul plugin works also via Terminal Server sessions.



19.3. IdBlue plugin

This plugin can be used to read and write RFID tag data. The KEmul or Terminal plugins receive only the Tag ID from the IdBlue reader. The Read and Write buttons allow the user to read and write tag data and the other button (Help) shows a window with a description of the reading/writing procedure.

IDBluePlugin 3		×
<u>R</u> ead	<u>W</u> rite	<u>H</u> elp
Tag information		
Tag ID:		
Blocks: 0	Bytes per block: 0	
Tag data:		
		^
		~
Antinana		
Getting tag ID		
	E <u>x</u> it	


19.4. BTR_BSW plugin

This plugin shows that the Baracoda ToughRunners/ScanWear readers can scan barcodes when sent a special command (described in their protocol guide). When the user clicks the "Scan a barcode" button, the reader will turn on the scan engine. If a barcode can be decoded, it will be shown on the plugin window. This plugin can be used for demonstration purposes.

BTR_BSW_Plugin, reader id: 3	X
Scan a barcode	
Barcodes:	
New barcode from reader 3 : size = 14 58527X4LLQY005	
Qlear	
Exit	
E <u>x</u> it	

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Data Capture

This plugin can be used to read and write the contents of an RFID tag with a TagRunners or DualRunners reader. The user should select the tag type in the combo box at the top of the window or leave the option on Any if they are not sure what protocol the RFID tag supports. When the tag is read, its protocol will be shown just above the status text field.

In order to save the contents of the tag to a file, please use the "Export data" button. If the user wants to write to the tag the contents of a file, they should use the "Import data" option.





19.6. PicturePlugin

The PicturePlugin can be used to capture signatures or take pictures with the RoadRunners Evolution 2D or DualRunners 2D readers having a firmware version 1.47 or newer.

Please note that before the reader can capture a signature, it should be configured (refer to section <u>Signature/image configuration settings</u> for the RoadRunners Evolution 2D and <u>Signature/image configuration</u> <u>settings</u> for DualRunners 2D) and in real time mode (<u>not in batch mode</u>).

The following screenshot shows the main window of the PicturePlugin:

Picture Plugin, reader id: 2 🛛 🔀
<text><text><text><text></text></text></text></text>
<u>S</u> ave data
Status Image data received successfuly. Format: Jpeg.
Image data received successfuly. Format: Jpeg.
<u>⊆</u> lear log
E <u>x</u> it

As soon as the user reads the signature reference barcode, the captured signature area will be shown in the middle of the window. The image can be saved with the Save data button (in jpeg format).

In order to start to take a picture, the user will need to either scan the Take Picture barcode (please refer to the user Guide of the reader to find this barcode) or click the Take picture button on the plugin's main window. In response the reader will turn on the beam and the user will need to press the trigger button to take the picture. The resulting picture will also be shown in the middle of the screen.

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