baracoda Traceability

Data Capture
for Workforce
in Motion

BaracodaManager for PC

User Guide

Bluetooth

SUMMARY

Revision History

Changes to the original manual are listed below.

Document	Date	Description
3.34	13th June 08	Initial release
3.34.1	18th August 08	TagRunners added, new master mode added
3.35	16th October 08	TagRunners RFID options added
3.35.2	22nd December 08	GUI modifications, BRRT plugin added
3.36	2nd March 09	DualRunners added
3.36.3	17th September 09	Version updated
3.37	3rd February 10	Signature (BRR Evolution 2D, BDR 2D) added
3.38	23rd November 10	C&S and Manual autoscan added, signature/picture capture modified
3.39	11th 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 (KEmul plugin) or displaying it (Terminal plugin)
- Setting a barcode reader(s) parameters (PIN code and others)
- Uploading data 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

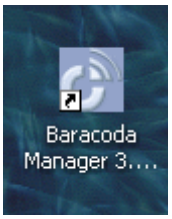
To set up the **BaracodaManager** and to configure it with their barcode reader(s), the user should check the following sections:

- Installation
- Getting Started

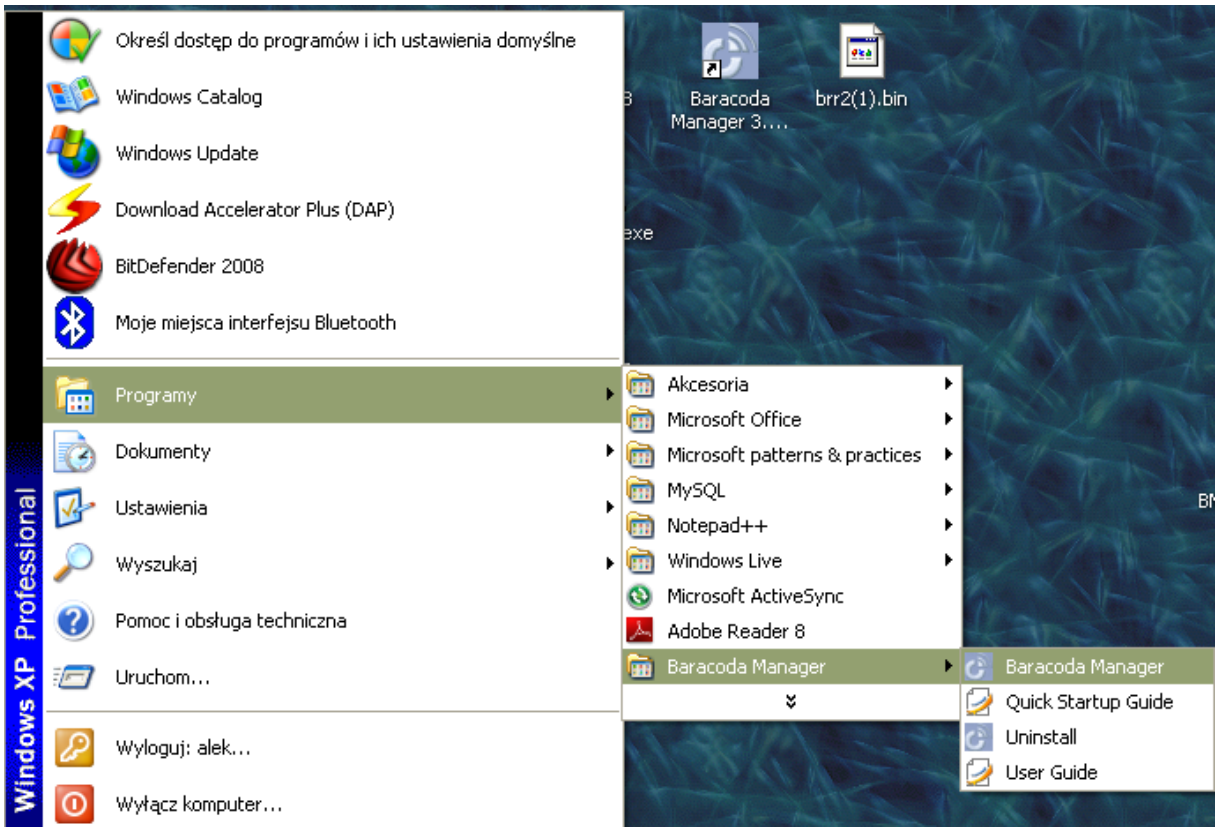
This section shows the user how to use the **BaracodaManager** icon and window during regular operation. For help on how to configure the **BaracodaManager** or how to set up the automatic connection mode – See section Getting Started.

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:

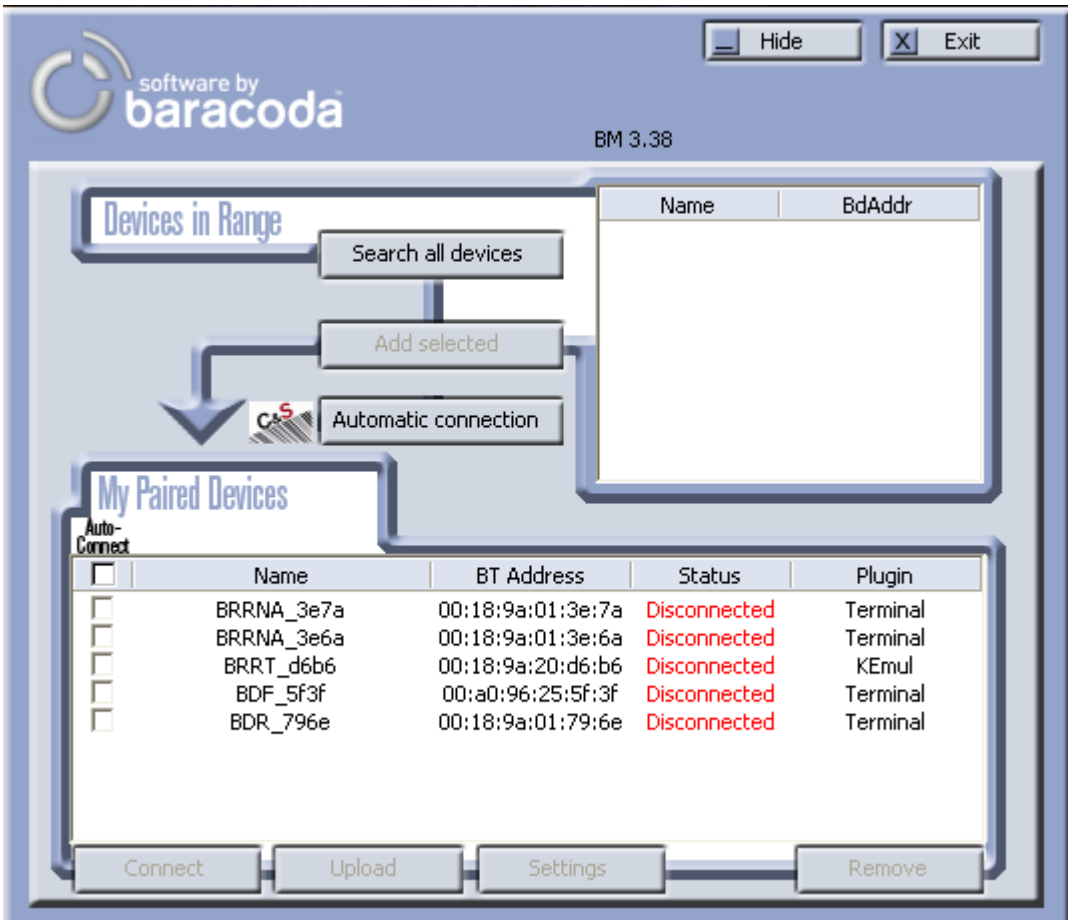


When the **BaracodaManager** is running its icon appears on the task bar:

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:



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 (www.baracoda.com/download).

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, Getting started.

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:

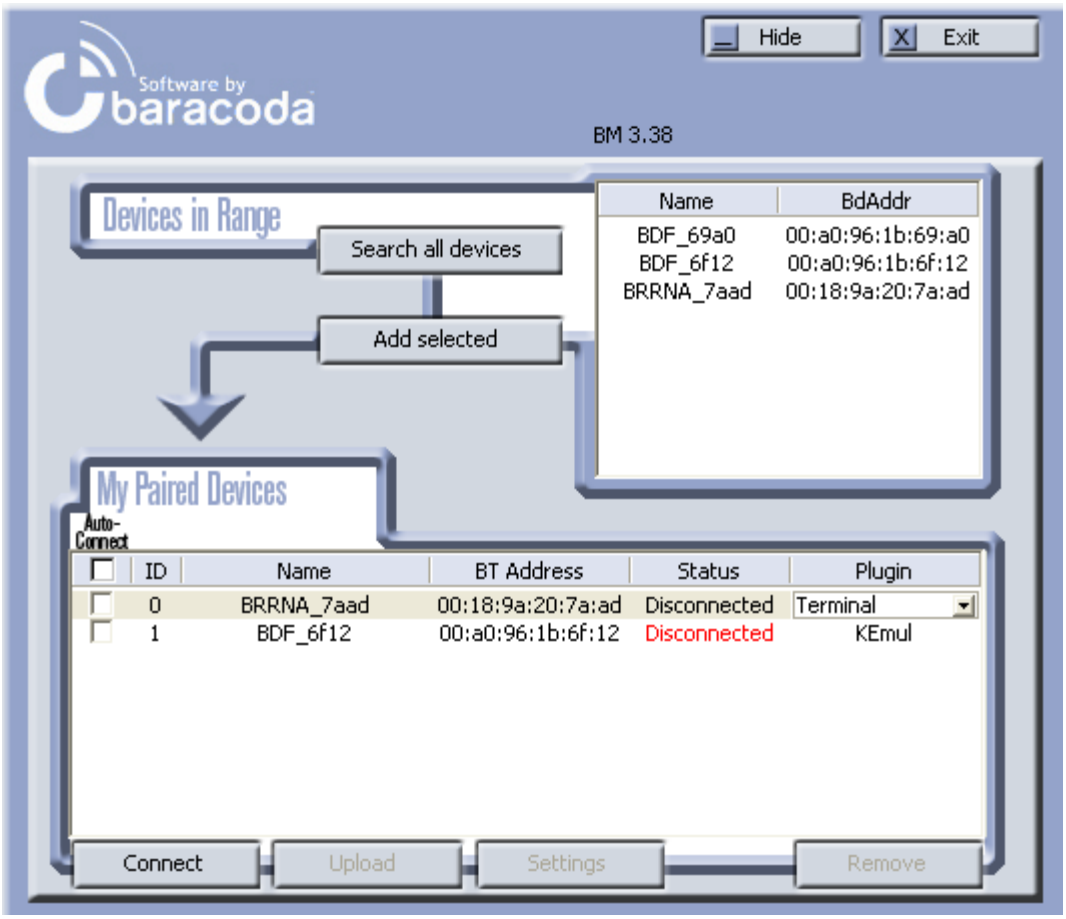
- using Bluetooth inquiry to find a reader and then connect it (**available on all supported Bluetooth stacks**)
- using the Connect&Scan method (scanning a connect barcode) to connect a reader without launching a Bluetooth inquiry (**available only on the Microsoft Bluetooth stack**)

3.1. Using Bluetooth inquiry to find readers

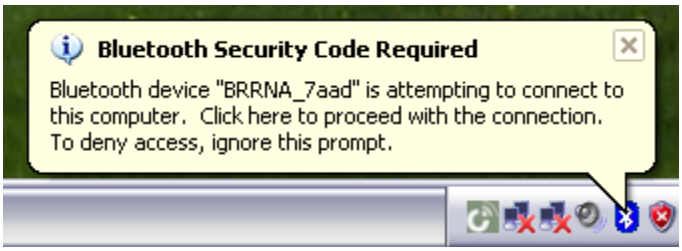
To configure the barcode reader(s):

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.



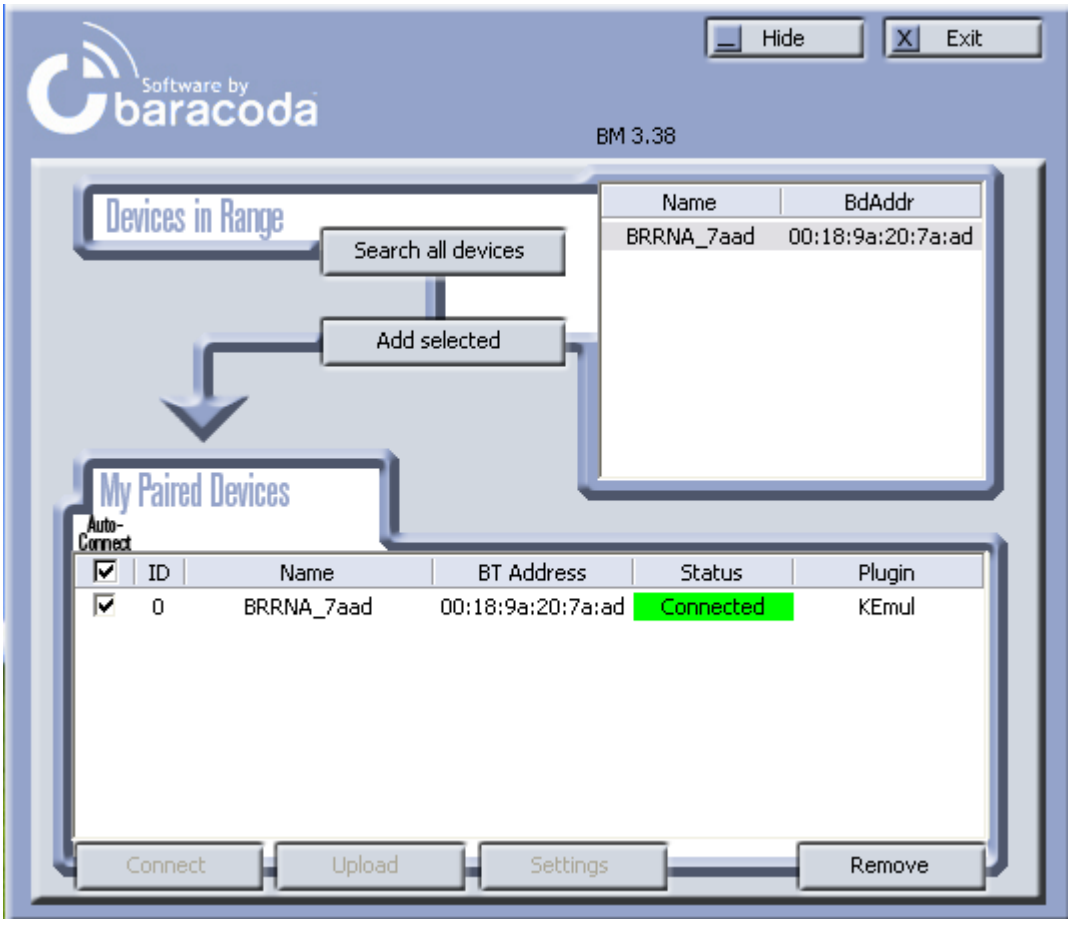
3. Select a barcode reader (in the “Devices in Range” list) by clicking on it, then click on the “Add Selected” button. A Bluetooth message appears near the system tray:



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

5. Enter the barcode reader PIN/Passkey code (by default: “0000” – see Functions 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 Plugins section for KEmul information).



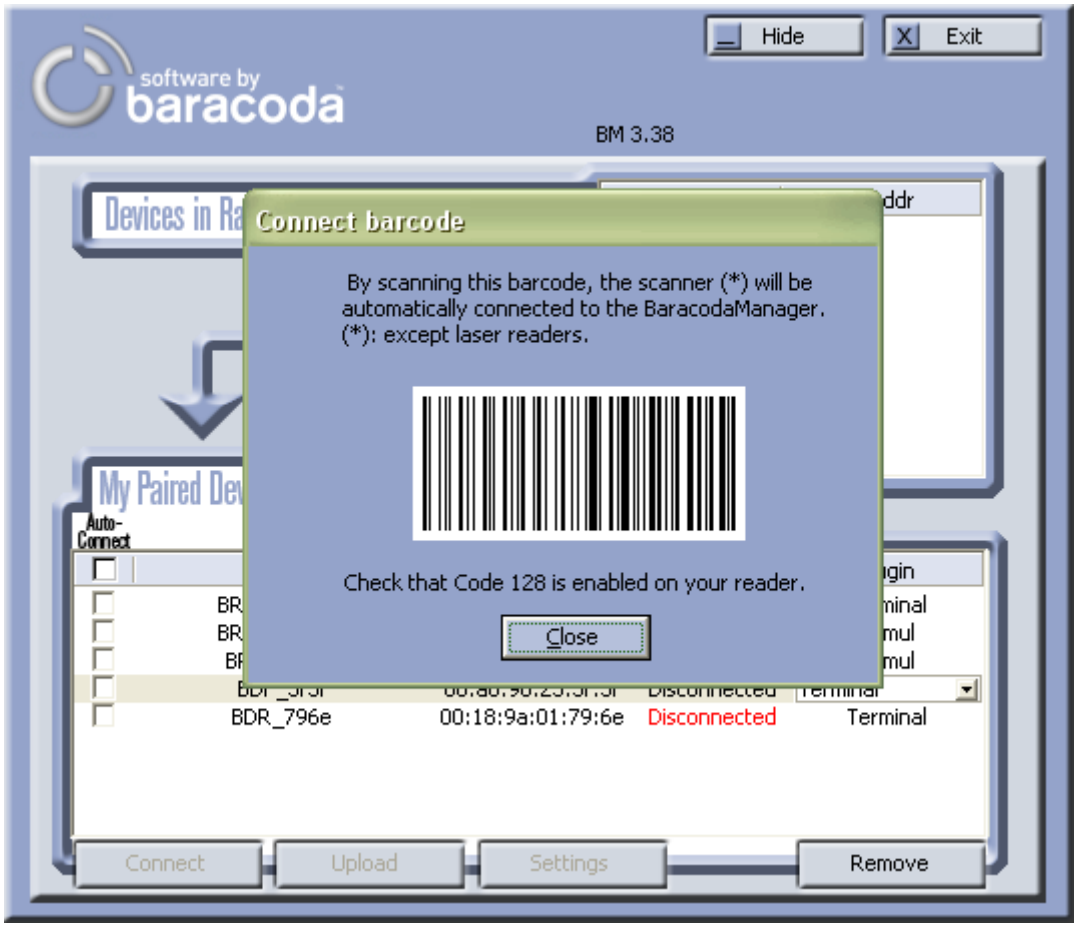
7. To change the plugin to be used for the barcode reader:
   - Click on the KEmul text in the Plugin column. A down-pointing arrow appears.
   - Click on the arrow. A list of plugins appears.
   - Select a plugin.
8. Repeat steps 3 to 7, to add any newly discovered barcode reader(s) to "My Paired Devices".
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 start-up 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

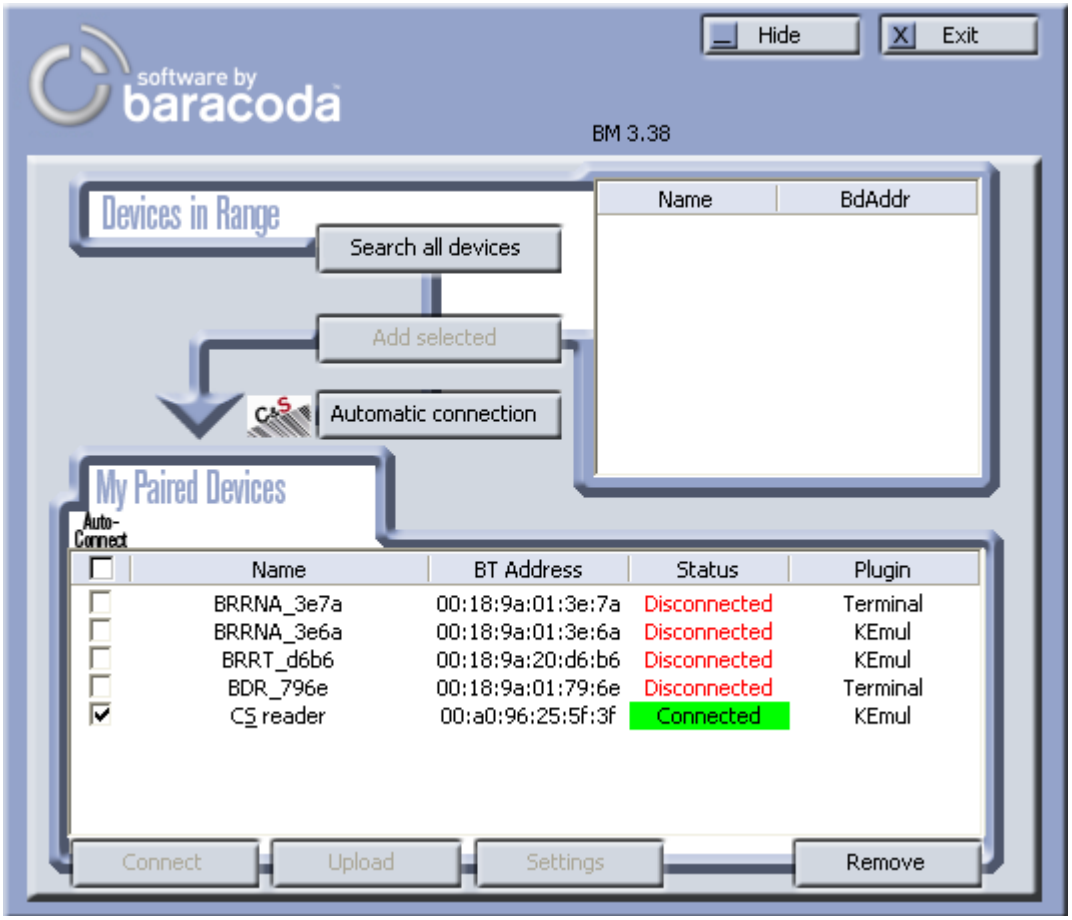
To configure the barcode reader(s):

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



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 Plugins section for KEmul information).



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 start-up 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 Functions 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

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.

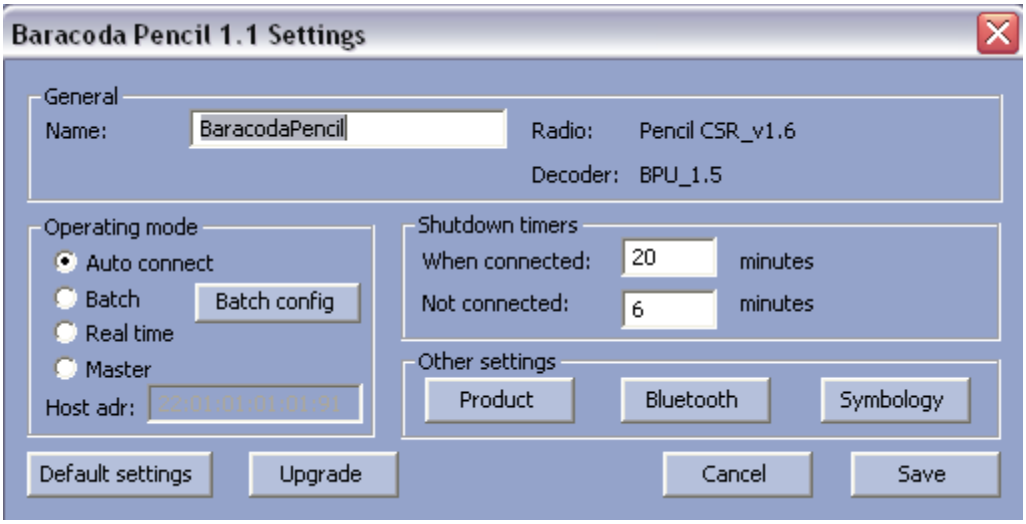
4.2. Disconnecting a barcode reader

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



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.

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

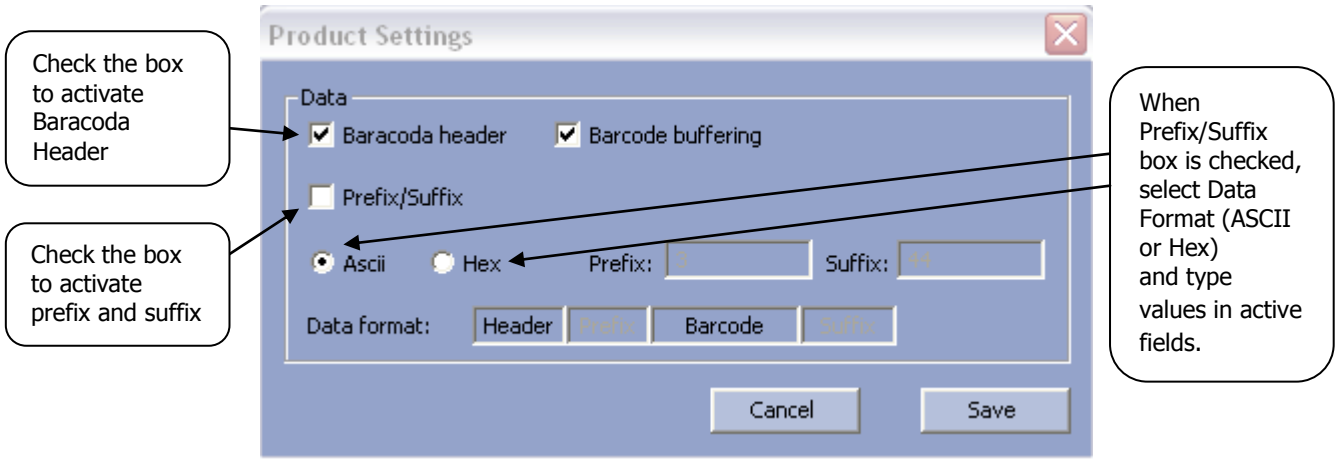
Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)

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

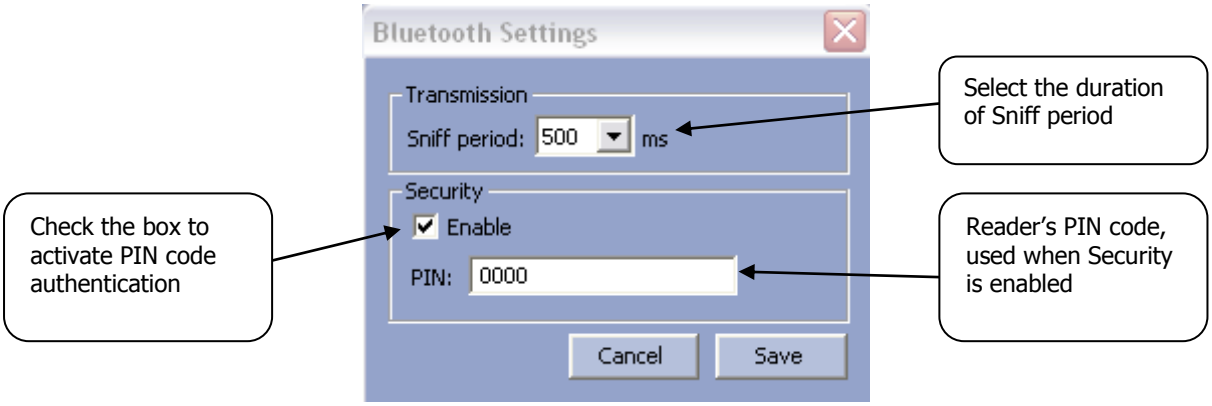
Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade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

5.1. Product settings

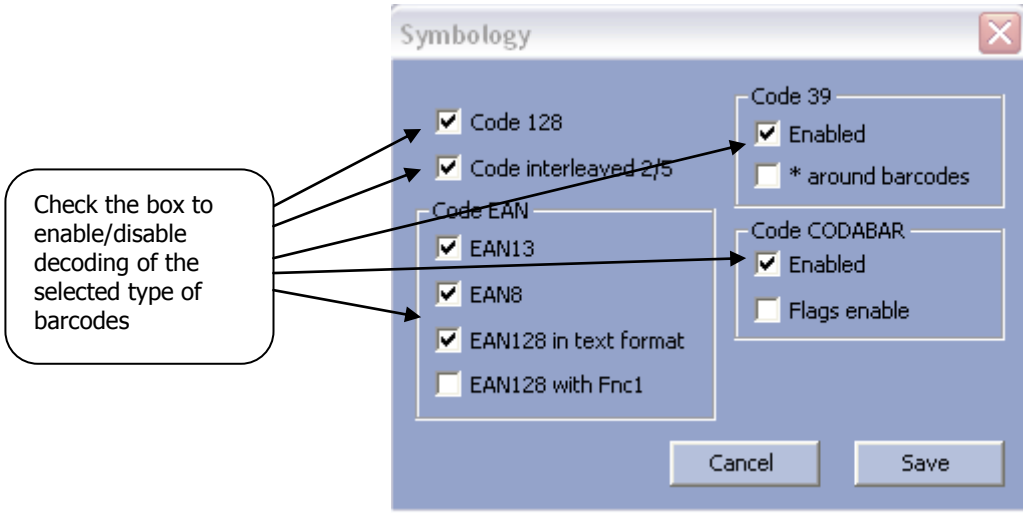
To find out more about the product settings, please refer to the barcode reader User Manual.



5.2. Bluetooth settings



5.3. Symbology settings

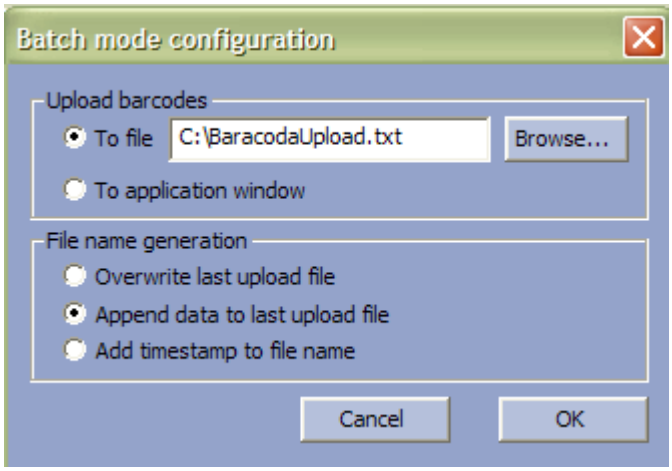


5.4. Batch mode settings

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

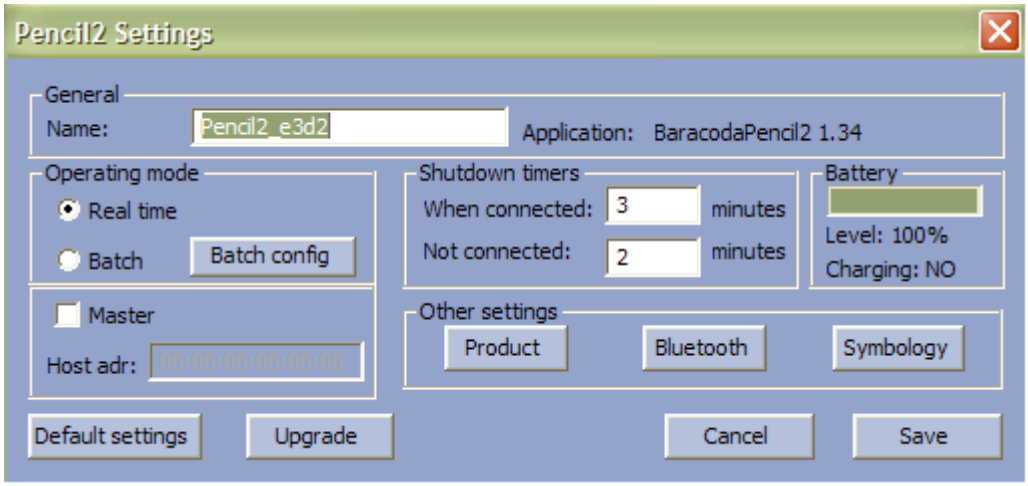
1. Upload barcodes to a file
   - Always upload to the same file, overwriting the previous content (“Overwrite last upload file”)
   - Append data to last upload file (default)
   - Generate a different file name for every upload (“Add timestamp to file name”)
2. Upload barcodes to an application window

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



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

6. BaracodaPencil2 settings



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.

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:

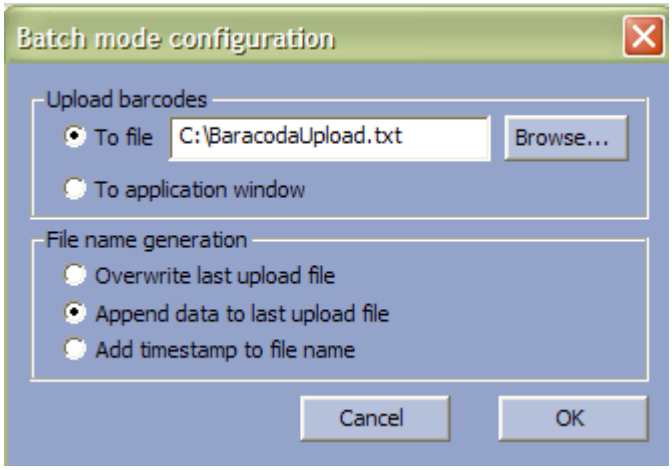
Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade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

6.1. Batch mode settings

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

1. Upload barcodes to a file
   - 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

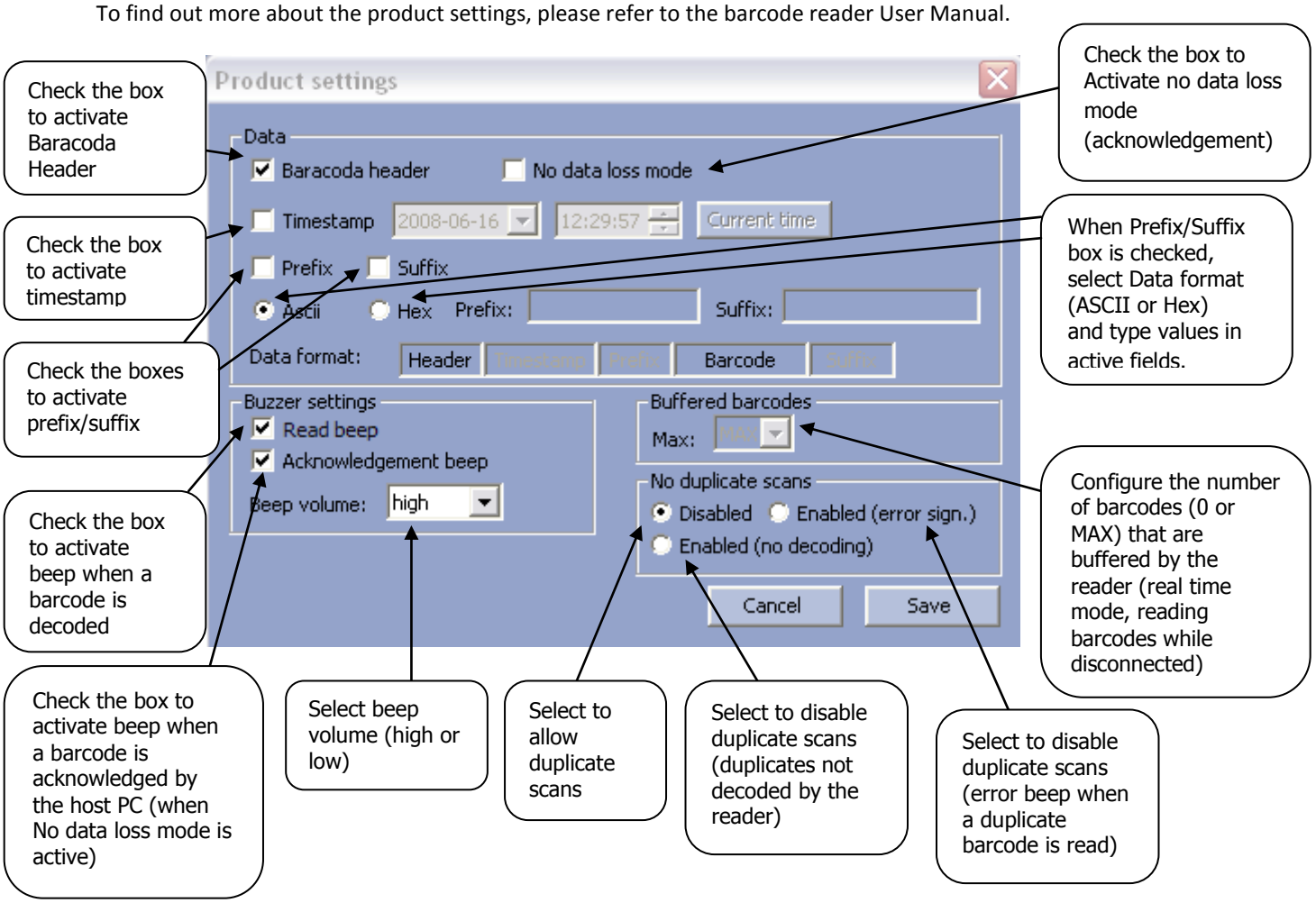
(for more information see the paragraph "Uploading data stored in batch mode")



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

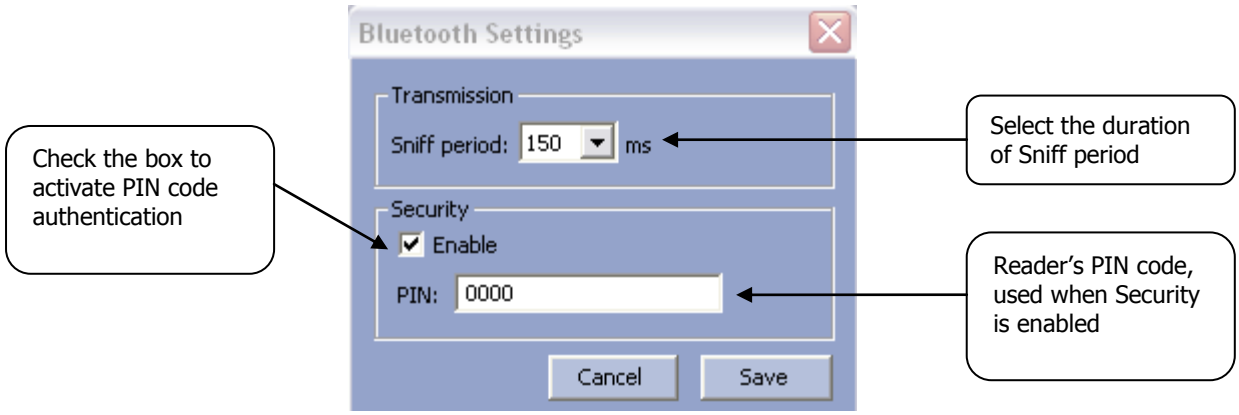
6.2. Product settings

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



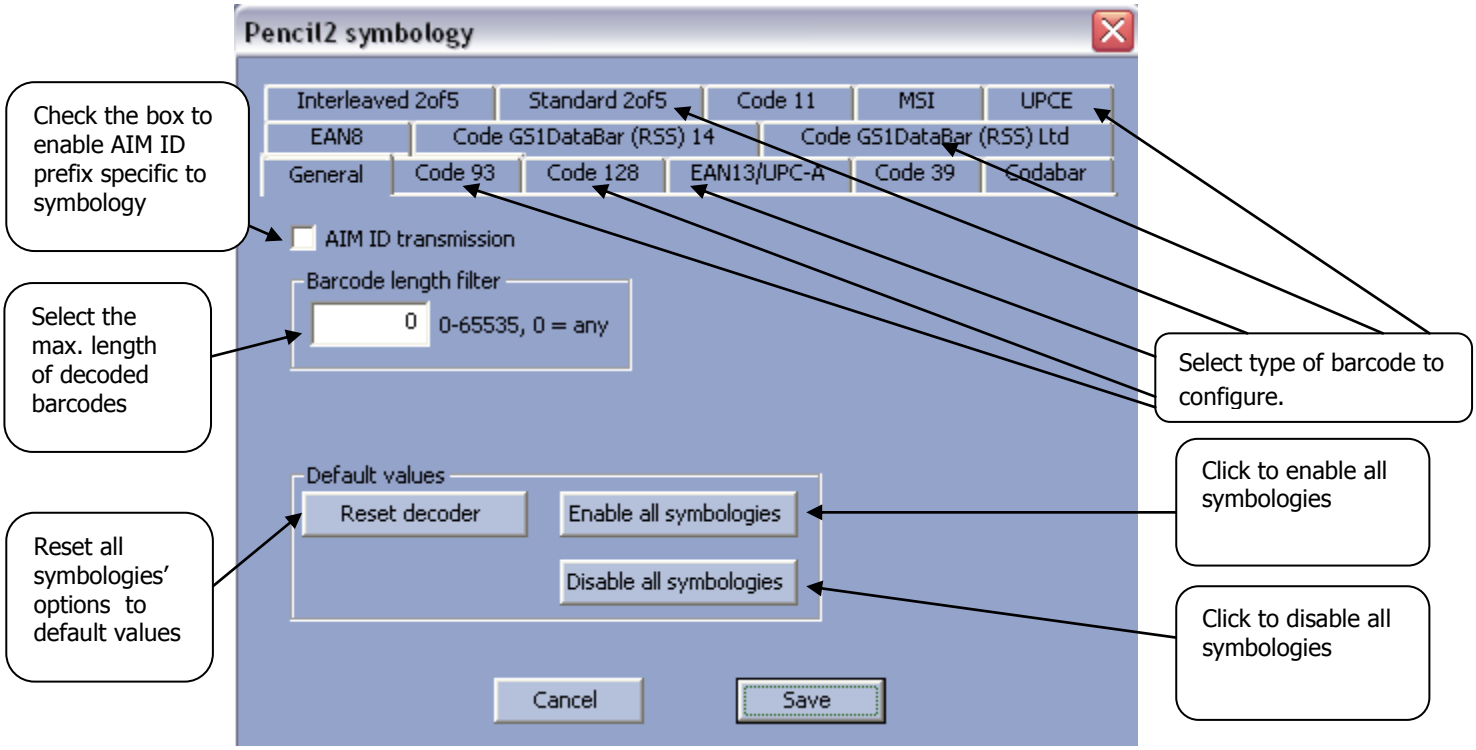
6.3. Bluetooth settings

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

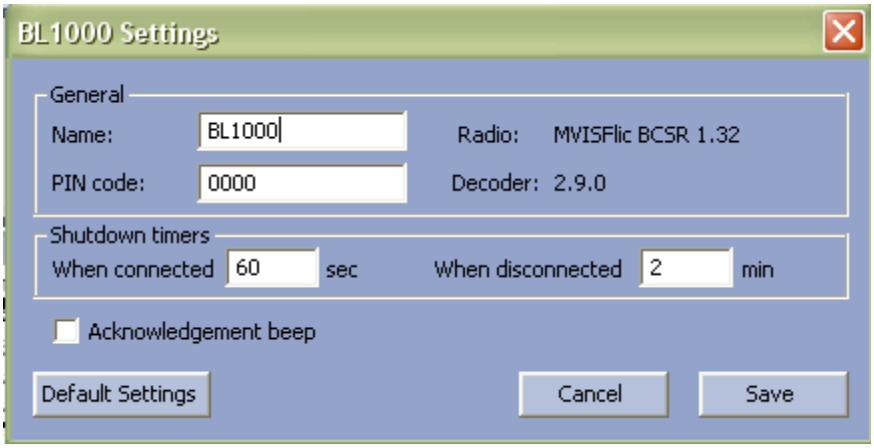


6.4. Symbology settings

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



7. BL1000 settings



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.

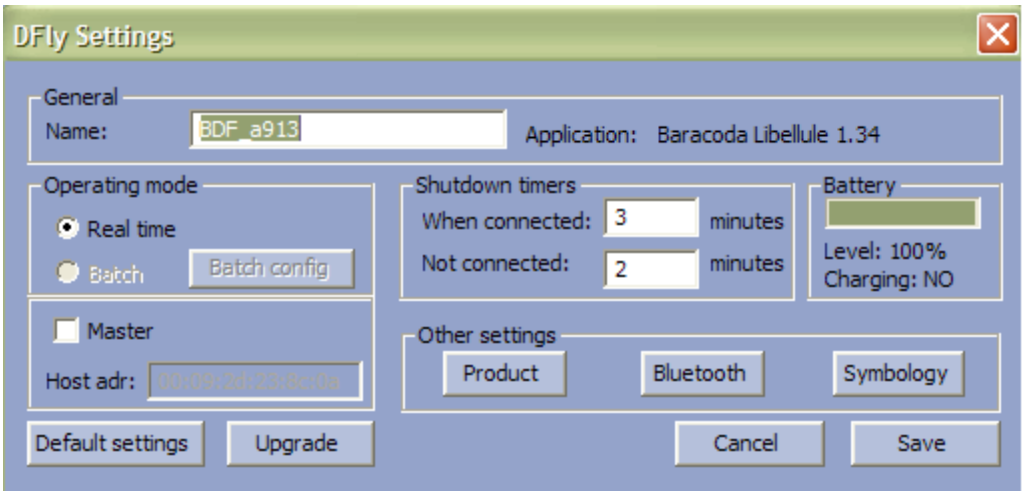
The table below shows how to use the acknowledgement beep checkbox:

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



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 Chapter 16 for details.

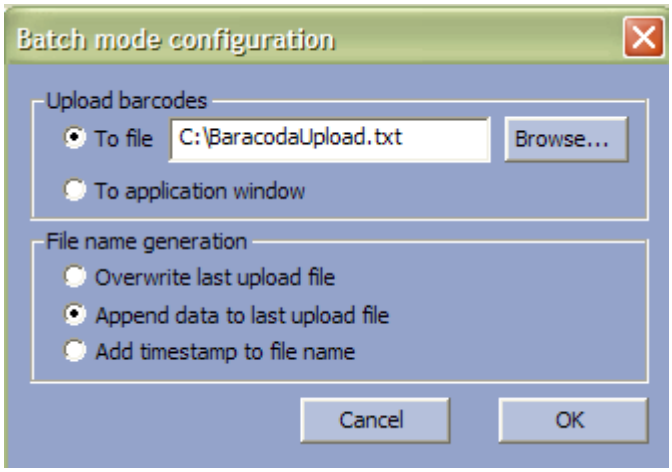
8.1. Batch mode settings

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
    - 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

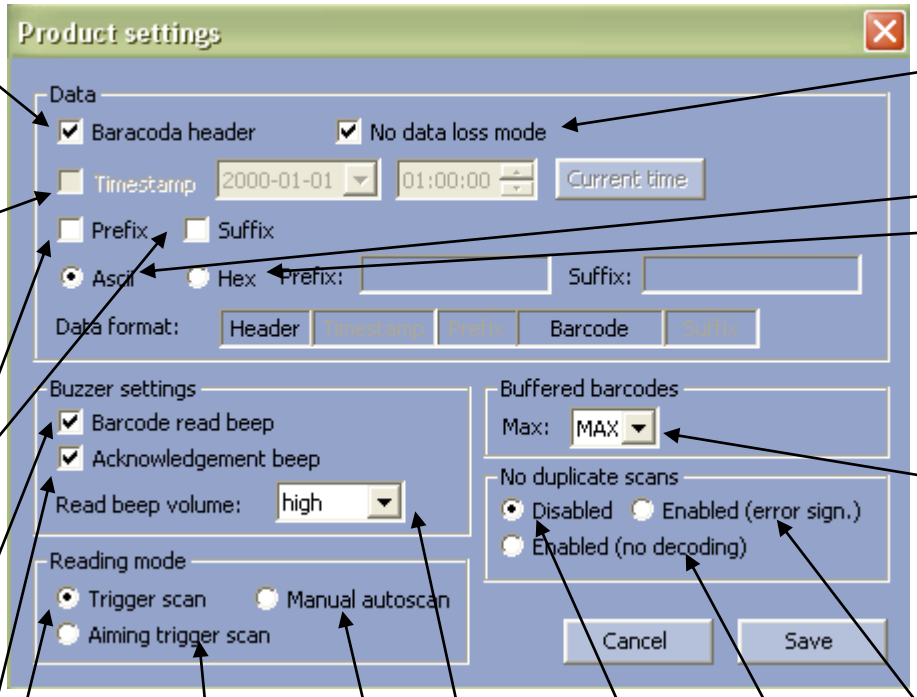
(for more information see the paragraph "Uploading data stored in batch mode")



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

8.2. 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

Check the box to activate timestamp (supported on D-Fly with P/N "B401202xx" (firmware >= v1.54))

Check the boxes to activate prefix/suffix

Check the box to activate beep when a barcode is decoded

Check the box to activate beep when a barcode is acknowledged by the host PC (when No data loss mode is active)

Check the box to Activate no data loss mode (acknowledgement)

When Prefix/Suffix box is checked, select Data format (ASCII or Hex) and type values in active fields.

Configure the number of barcodes (0 or MAX) that are buffered by the reader (real time mode, reading barcodes while disconnected)

Select to activate trigger mode of the scan engine

Select to activate manual autoscan mode of the scan engine

Select to allow duplicate scans

Select to disable duplicate scans (duplicates not decoded by the reader)

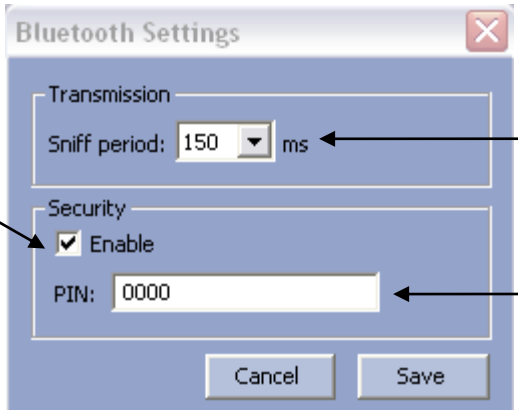
Select to disable duplicate scans (error beep when a duplicate barcode is read)

Select to activate aiming trigger mode of the scan engine

Select beep volume (high or low)

8.3. Bluetooth settings

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



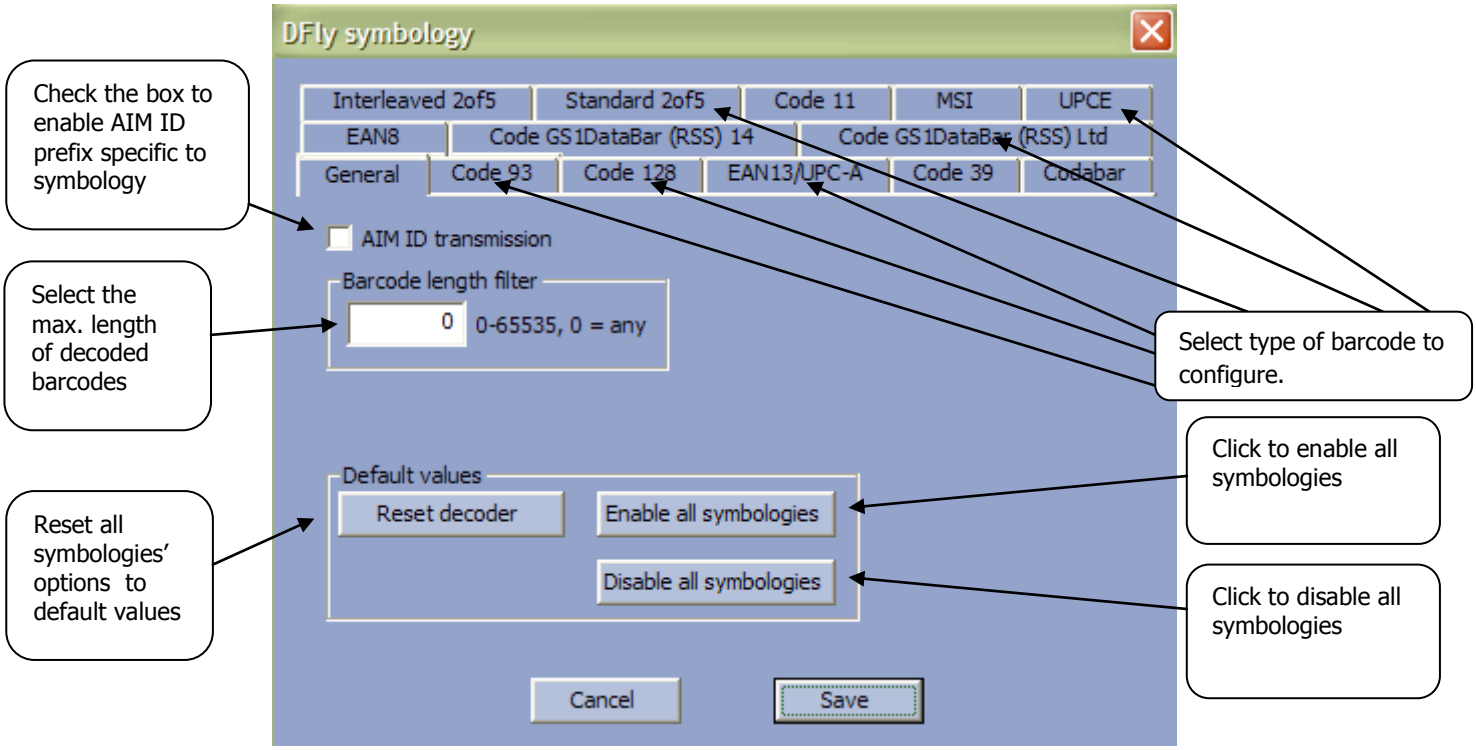
Check the box to activate PIN code authentication

Select the duration of Sniff period

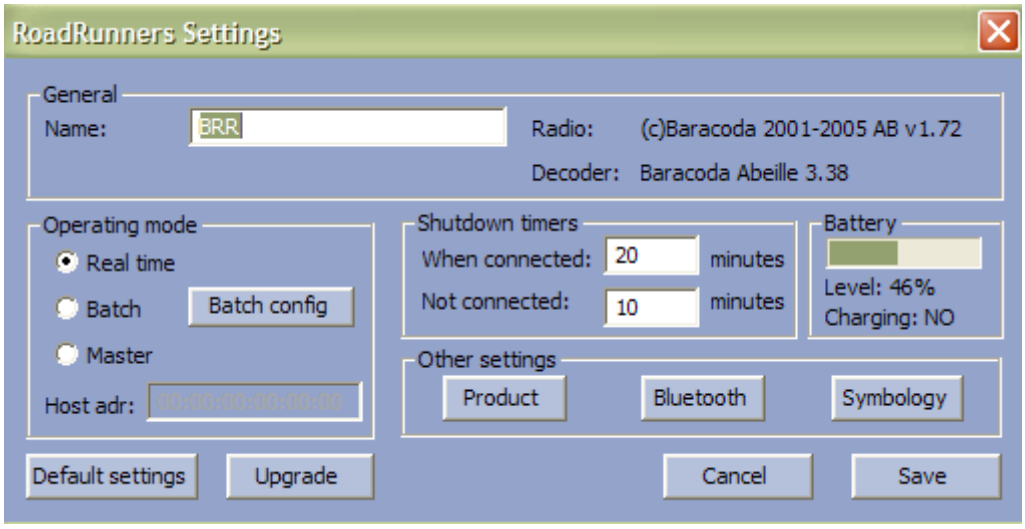
Reader's PIN code, used when Security is enabled

8.4. Symbology settings

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



9. Baracoda RoadRunners settings



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.

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:

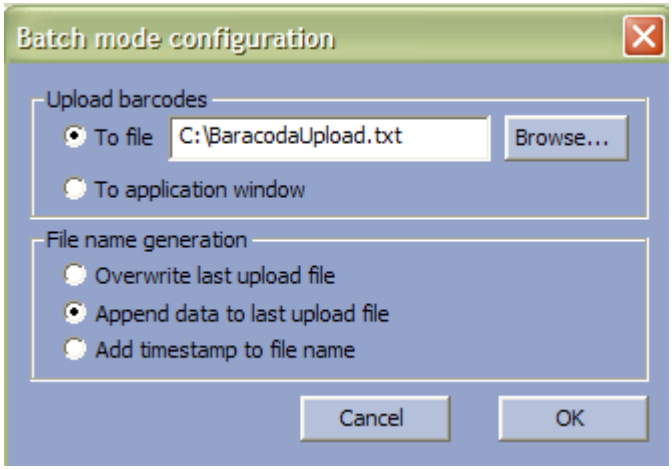
Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade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

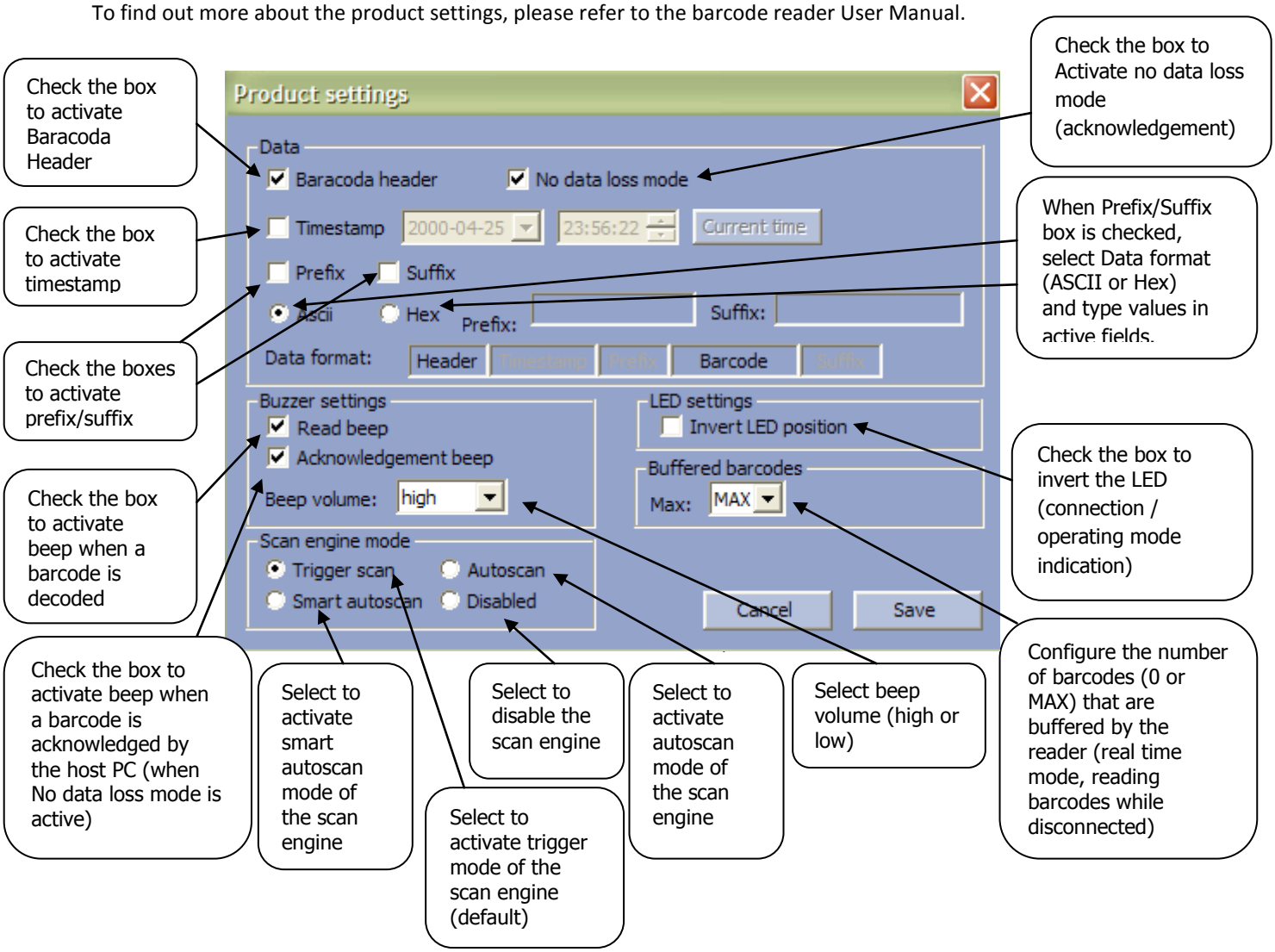
(for more information see the paragraph "Uploading data stored in batch mode")



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

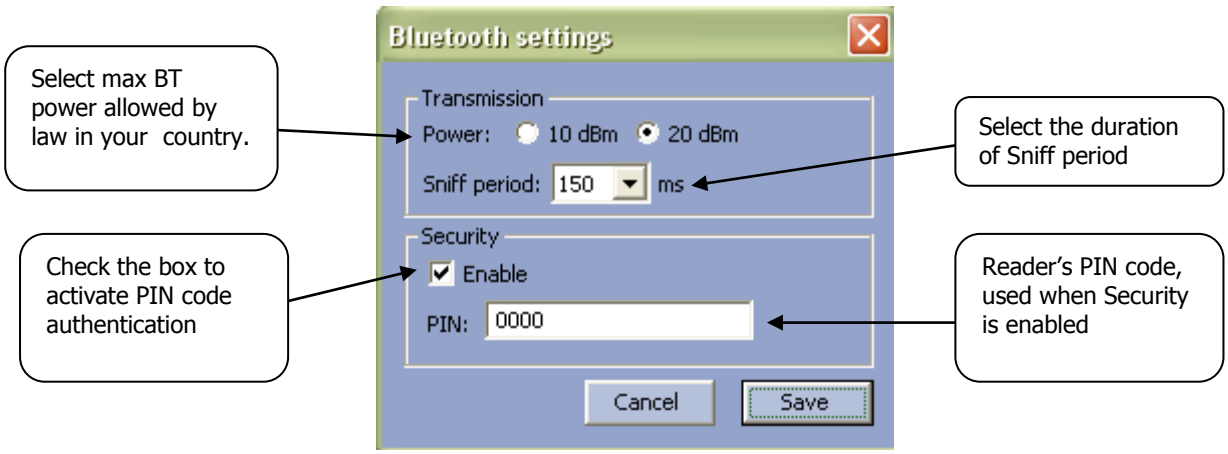
9.2. Product settings

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



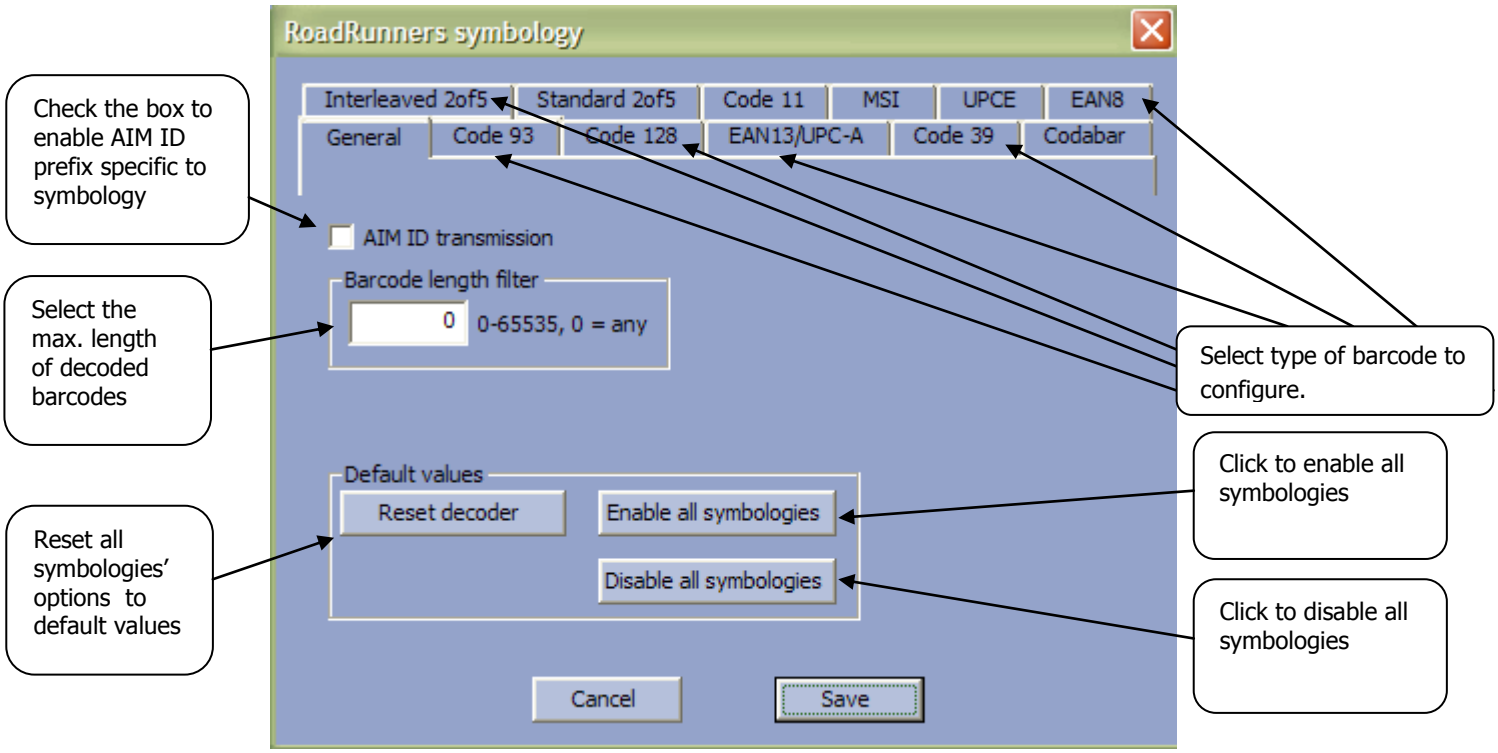
9.3. Bluetooth settings

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

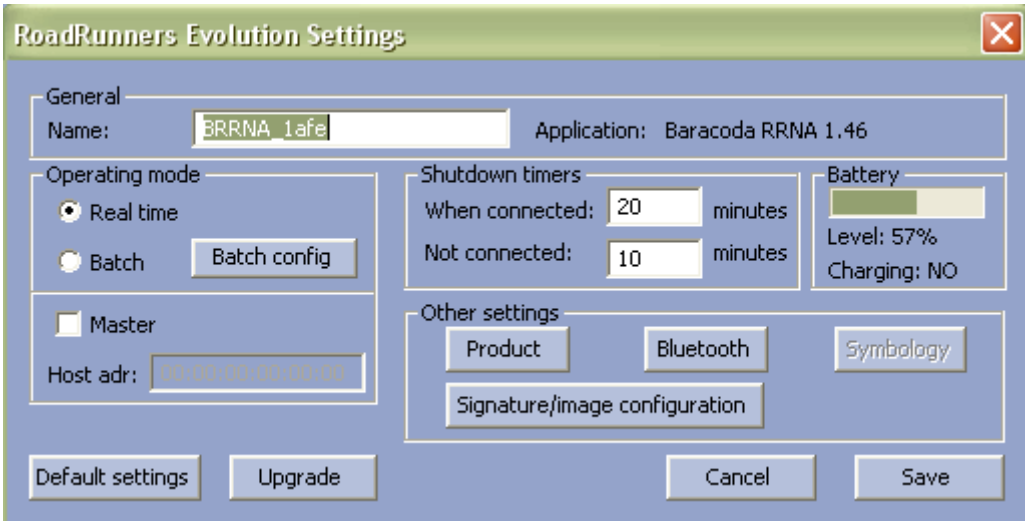


9.4. Symbology settings

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



10. Baracoda RoadRunners Evolution settings



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.

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 configuration	Access the signature mode and picture mode configuration (**only for 2D 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 Chapter 16 for details.

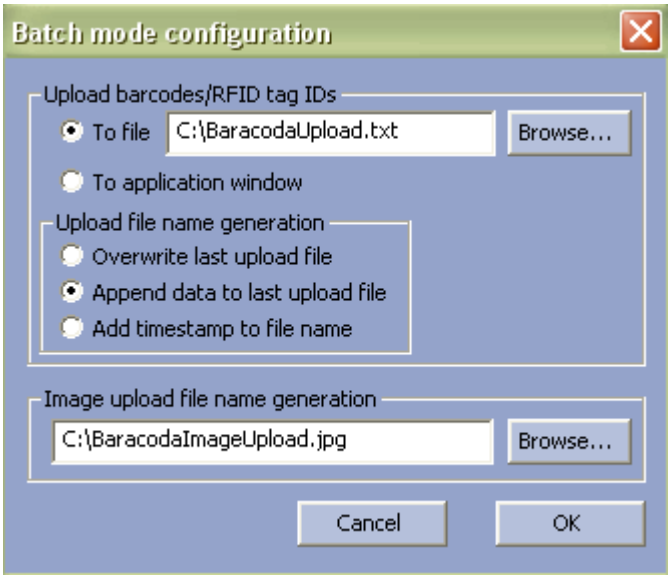
10.1. Batch mode settings

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
  - 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
  - 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 Signature/image capture configuration 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)

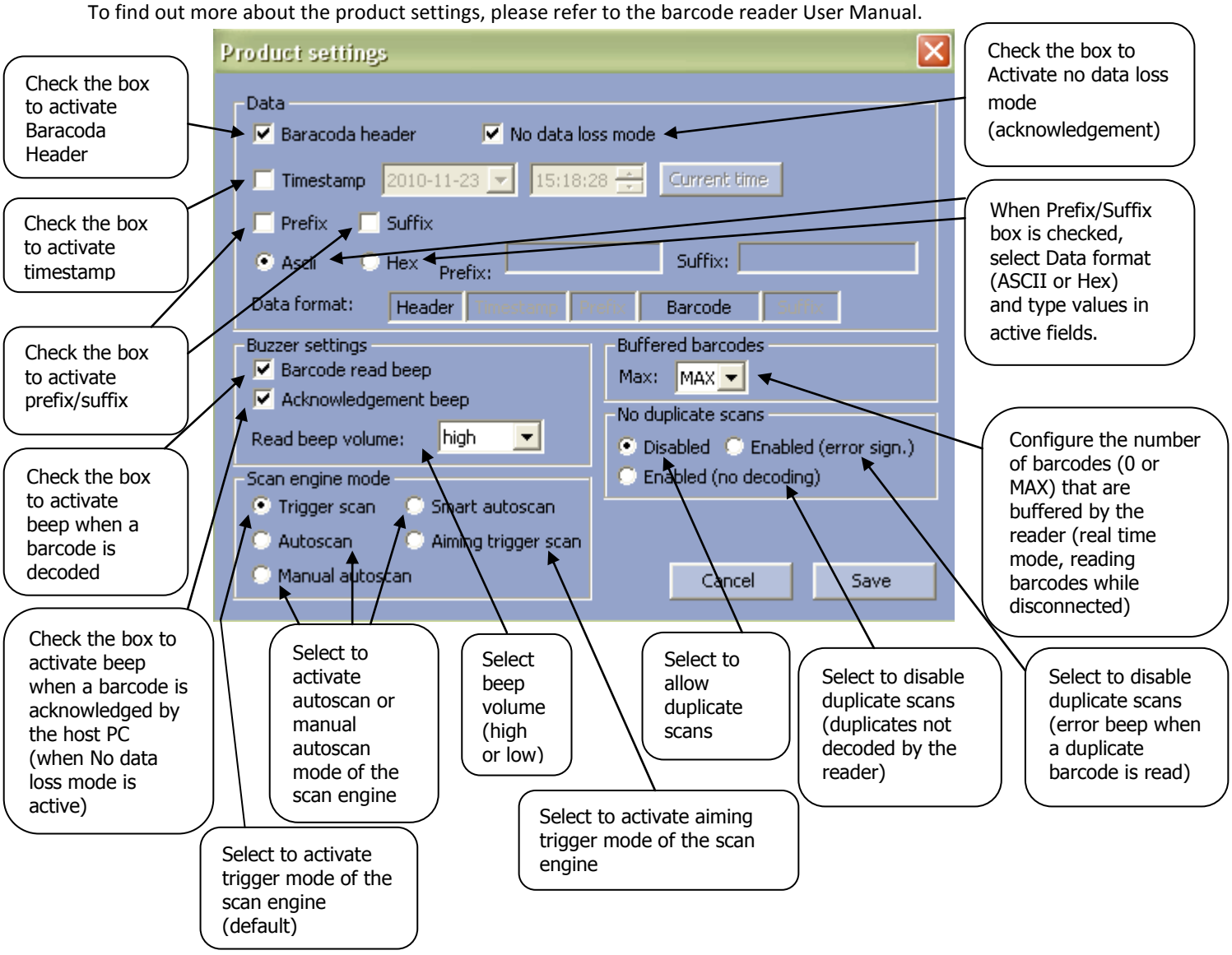


Button	Functionality
Browse	Choose a file name and path to store the barcodes
OK	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window

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

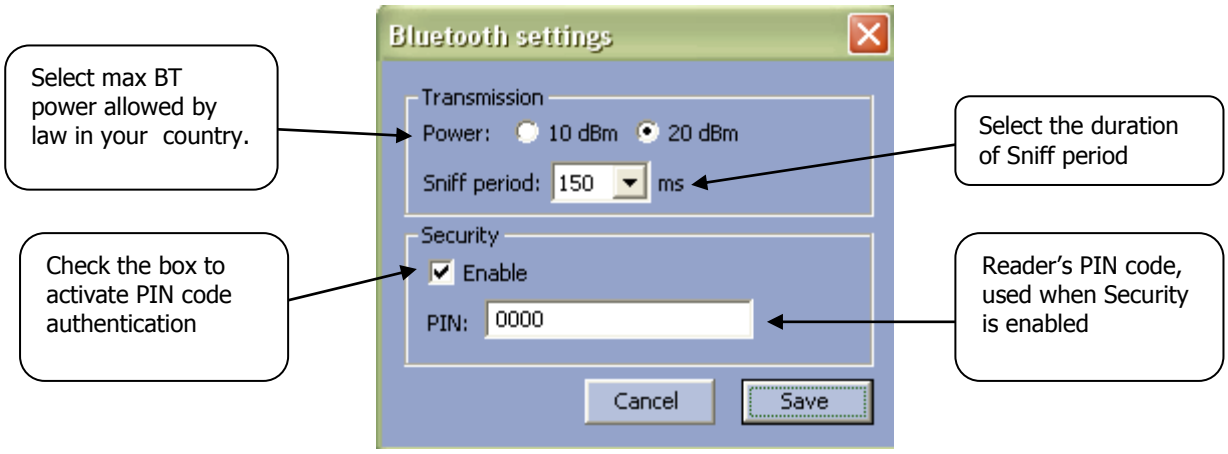
10.2. Product settings

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



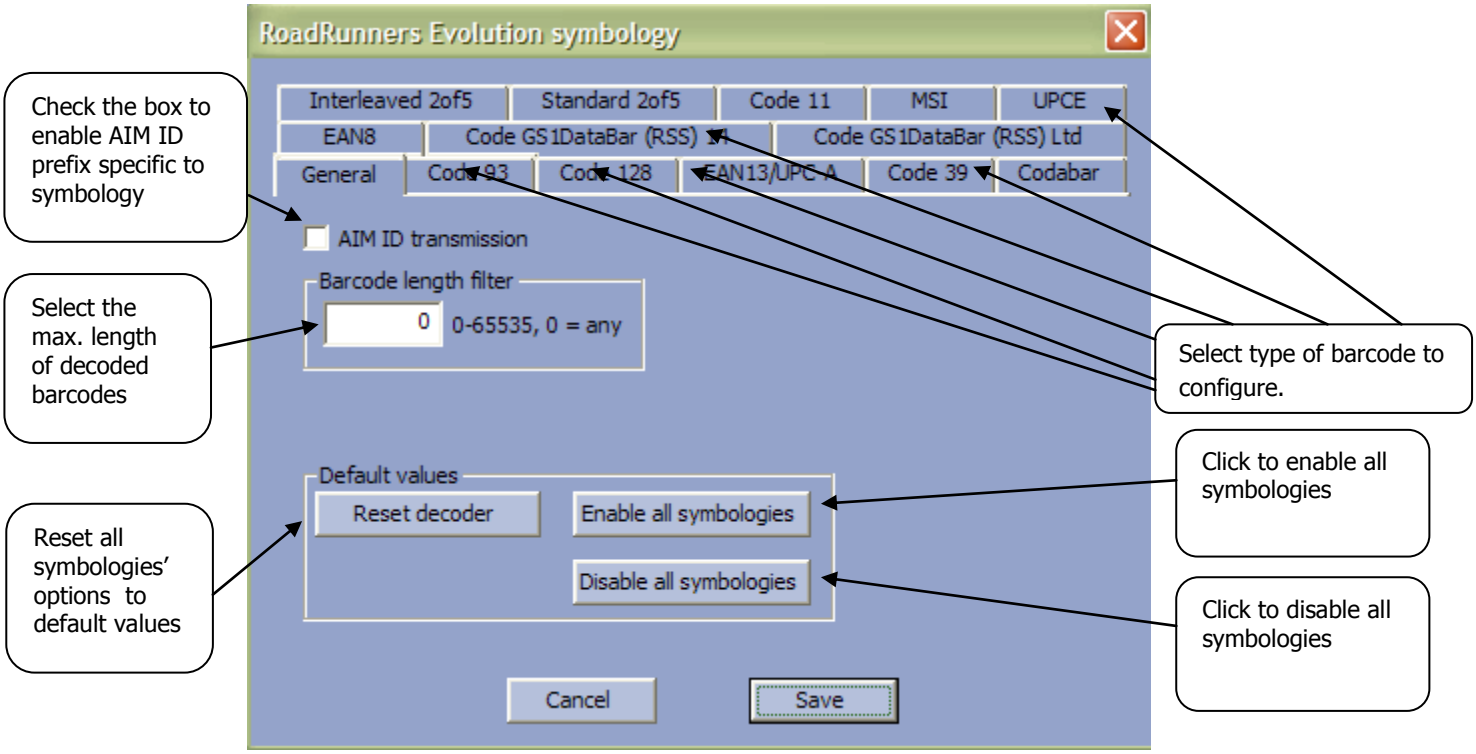
10.3. Bluetooth settings

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



10.4. Symbology settings

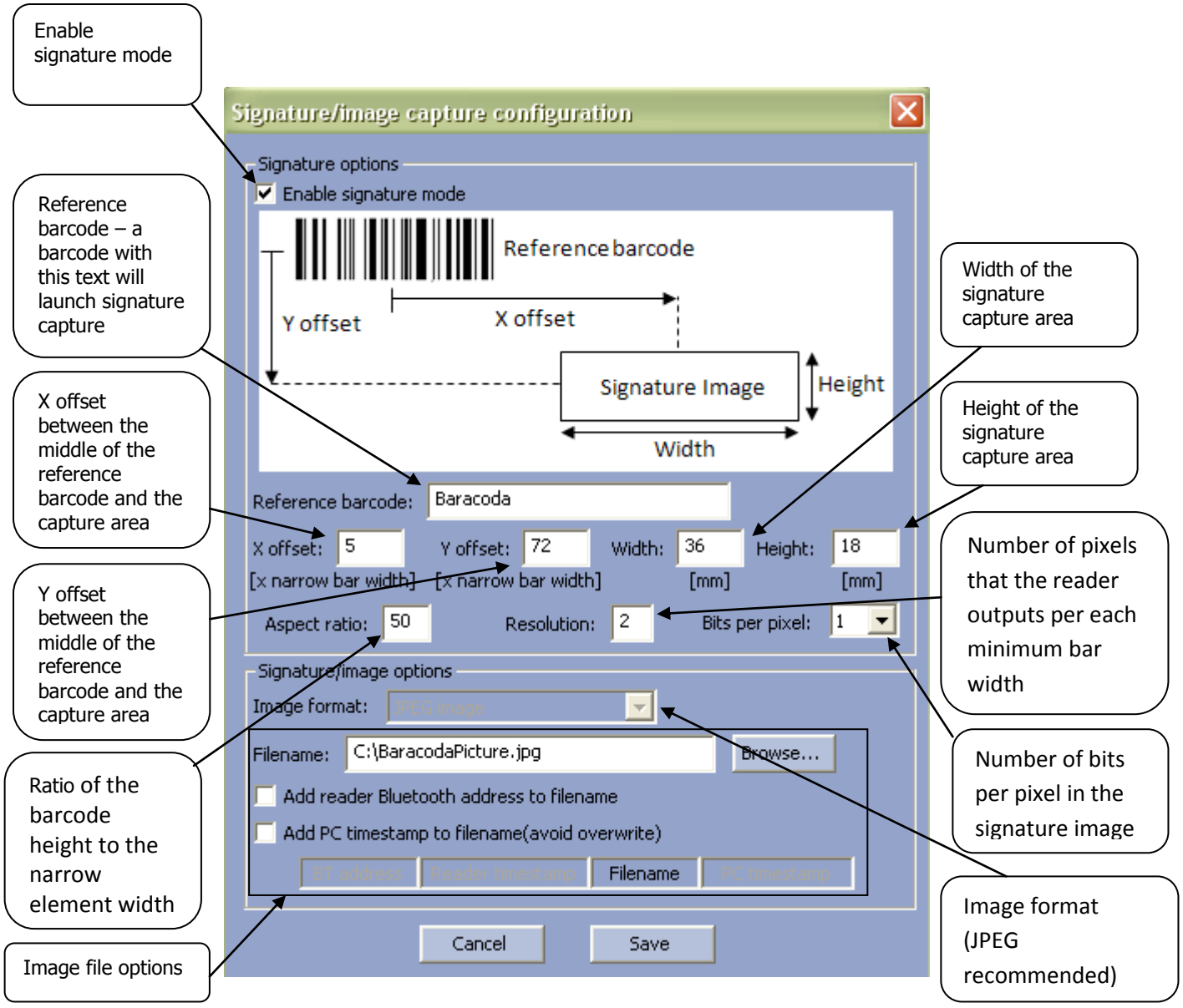
To find out more about the Symbology settings, please refer to the barcode reader User Manual.



10.5. Signature/image configuration settings

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

Please note that the signature and image modes are only available for RoadRunners Evolution 2D readers with firmware versions 1.47 and newer.

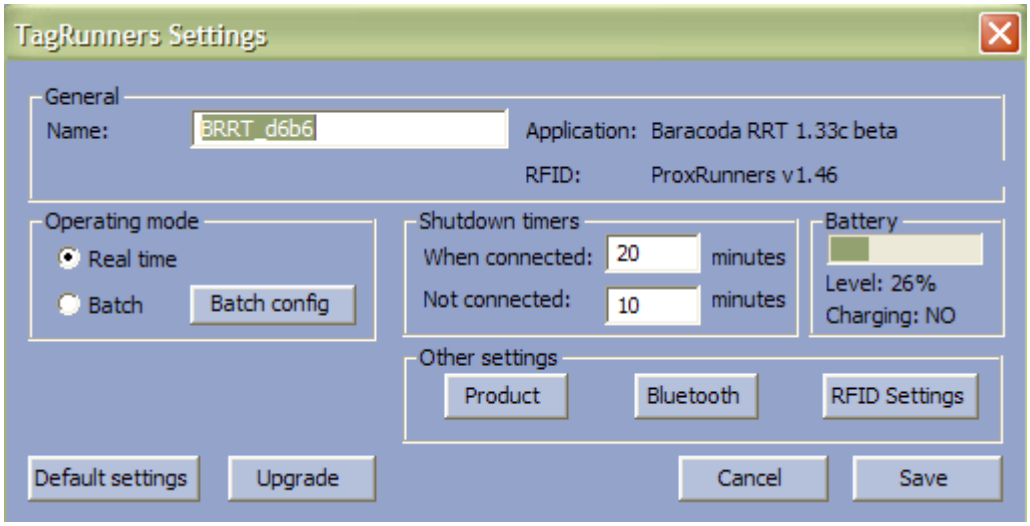


The format of the image filename will be the following:
AAA_Filename_BBB_CCC.jpg, where

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

Please note that the above filename settings apply to real time mode only (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 "Batch mode settings" chapter.

11. Baracoda TagRunners settings



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:

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:

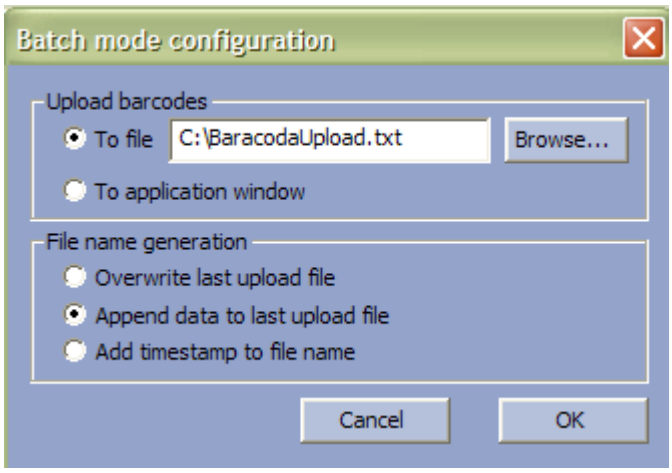
Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.
Upgrade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

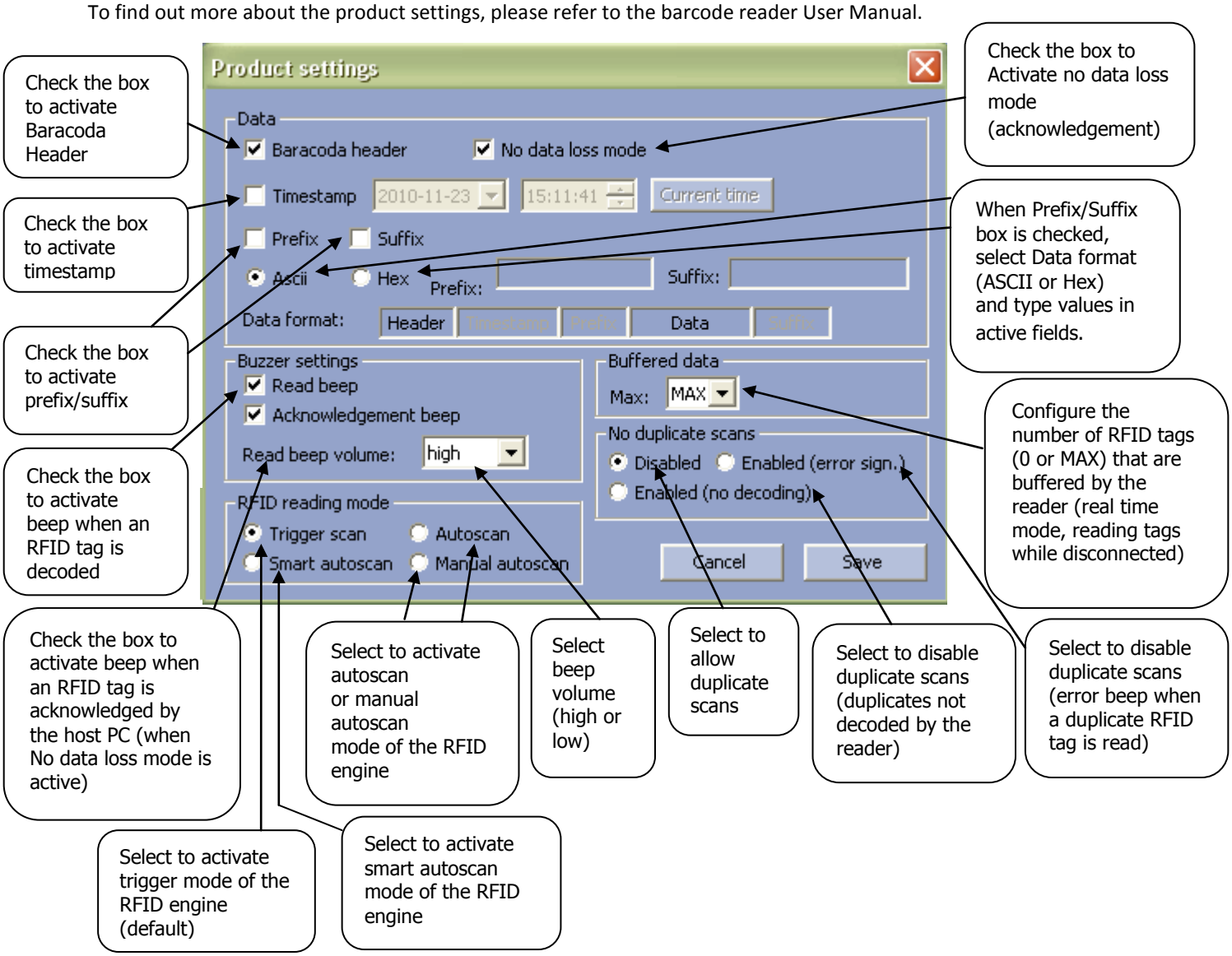
(for more information see the paragraph "Uploading data stored in batch mode")



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

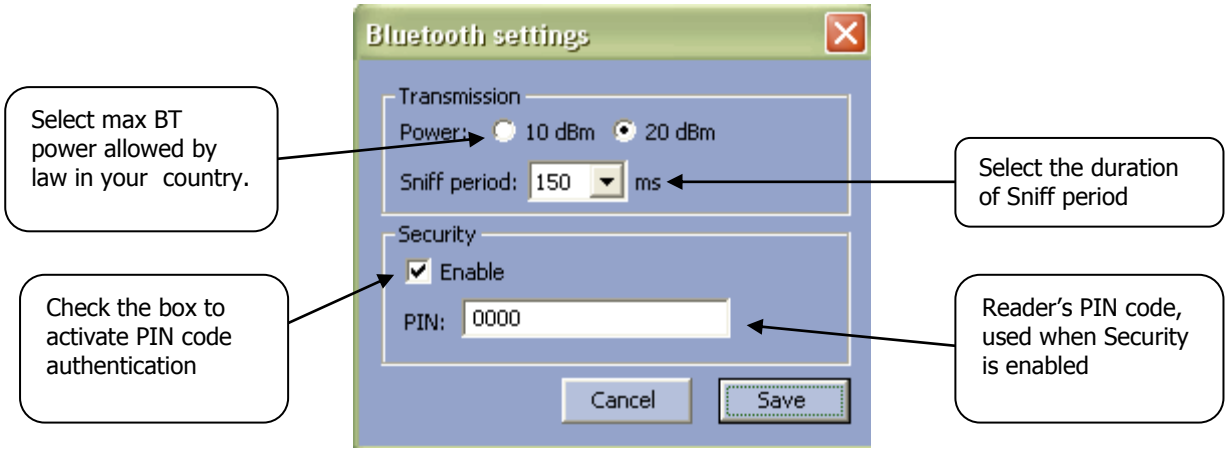
11.2. Product settings

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



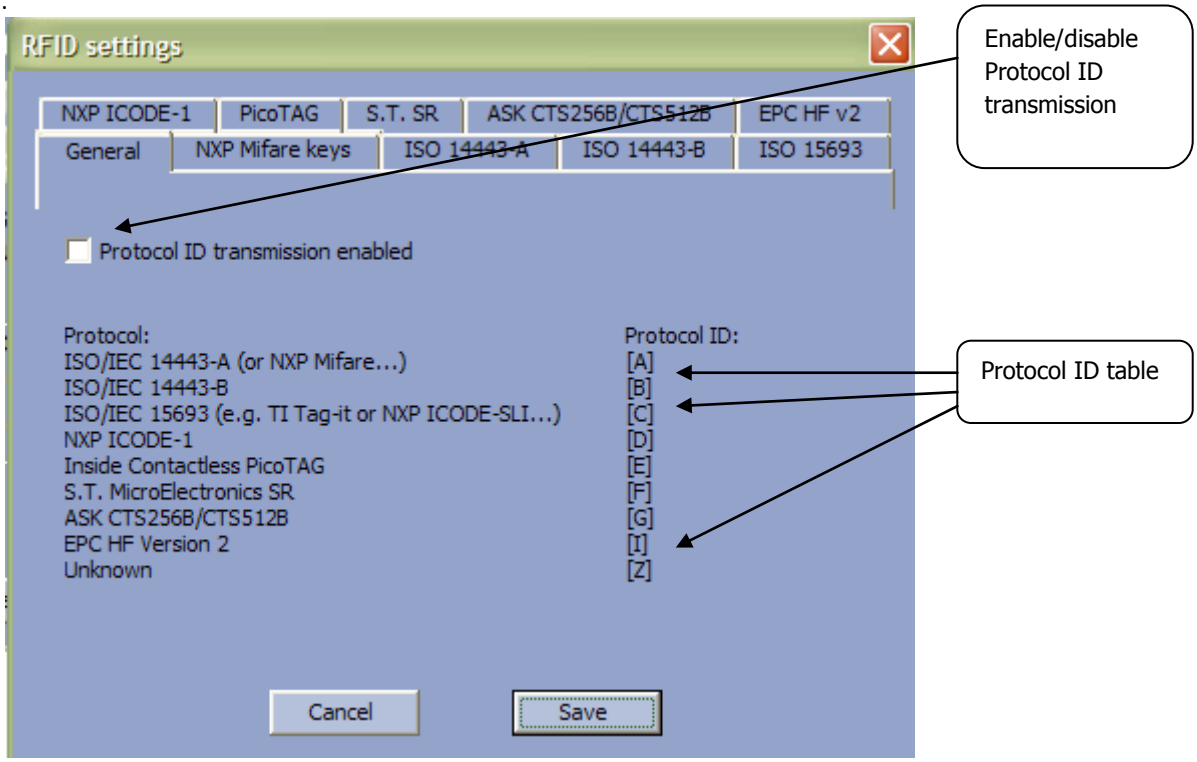
11.3. Bluetooth settings

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

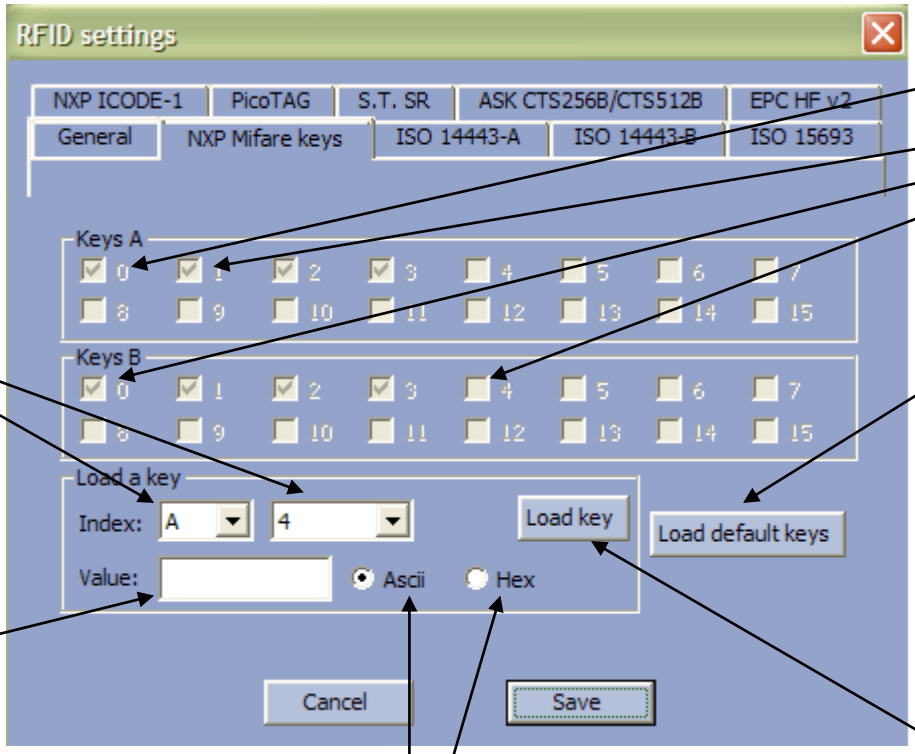


11.4. RFID settings

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:



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



These combo boxes can be used to select the index of the key to be loaded.

This text box can be used to set the value of the key to be loaded (max. 4 characters).

Checkboxes show which keys are currently loaded. The first four A and B keys are reserved.

This button can be used to load the default keys and remove any keys set by the user from the reader's memory.

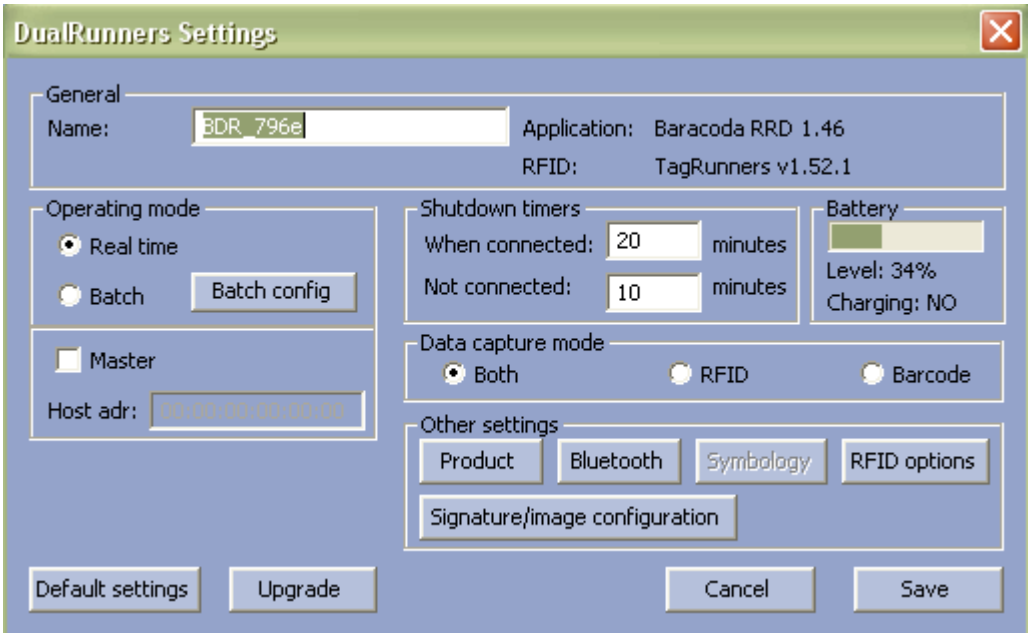
This button can be used to load the selected key to the value set in the textbox.

These controls change the format of the textbox (key value) to ASCII or Hex.

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



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.

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 configuration	Access the signature mode and picture mode configuration (**only for 2D 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 Chapter 16 for details.

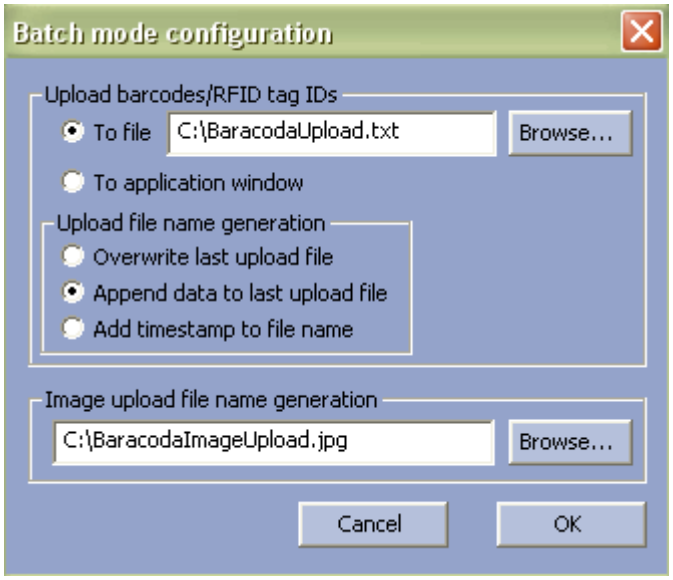
12.1. Batch mode settings

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
  - 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 Signature/image capture configuration 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)

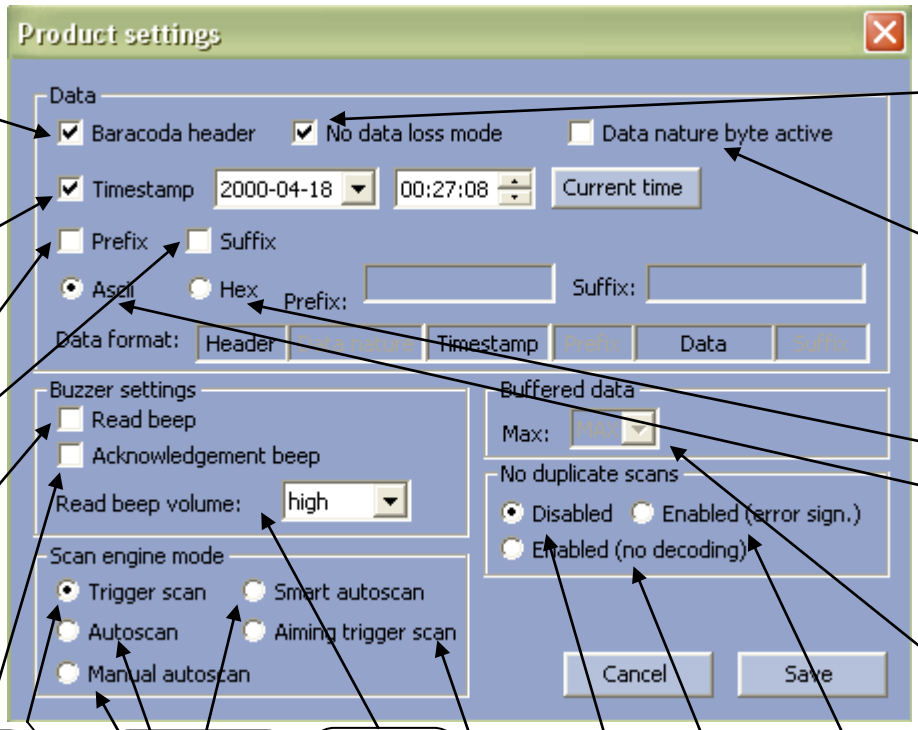


Button	Functionality
Browse	Choose a file name and path to store the barcodes
OK	Close Batch configuration window without saving any modifications
Cancel	Save the modifications and close Batch configuration window

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

12.2. 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

Check the box to activate timestamp

Check the box to activate prefix/suffix

Check the box to activate beep when data is read

Check the box to activate beep when a barcode is acknowledged by the host PC (when No data loss mode is active)

Select to activate trigger mode of the scan engine (default)

Select to activate autoscan or smart or manual autoscan mode of the reader

Select beep volume (high or low)

Select to activate aiming trigger mode of the scan engine

Select to allow duplicate scans

Select to disable duplicate scans (duplicates not decoded by the reader)

Select to disable duplicate scans (error beep when a duplicate barcode is read)

Configure the number of barcodes (0 or MAX) that are buffered by the reader (real time mode, reading barcodes while disconnected)

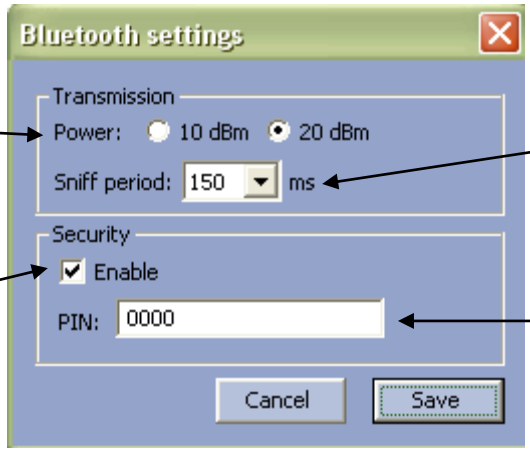
Check the box to Activate no data loss mode (acknowledgement)

Check the box to activate the data nature byte (0 for barcodes and 1 for RFID tag IDs)

When Prefix/Suffix box is checked, select Data format (ASCII or Hex) and type values in active fields.

12.3. Bluetooth settings

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



Select max BT power allowed by law in your country.

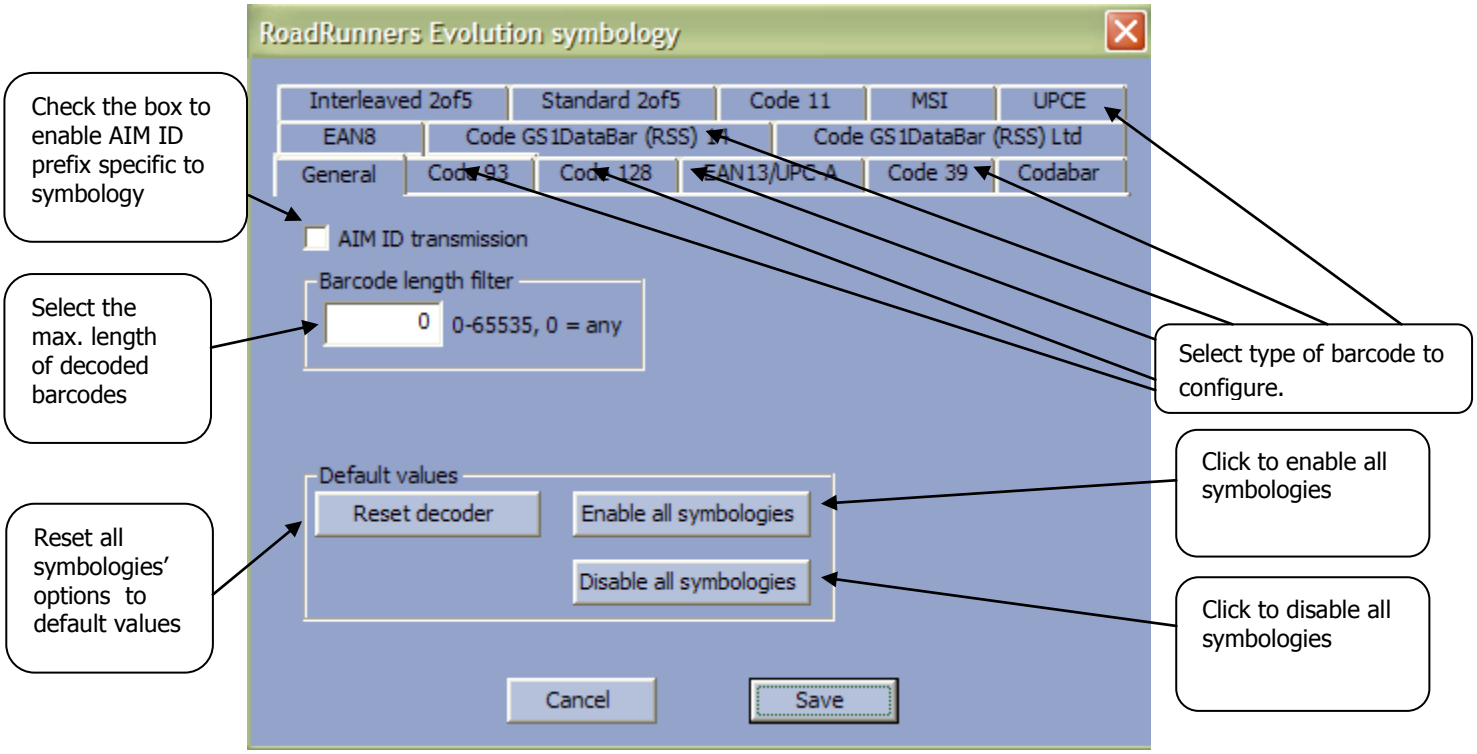
Check the box to activate PIN code authentication

Select the duration of Sniff period

Reader's PIN code, used when Security is enabled

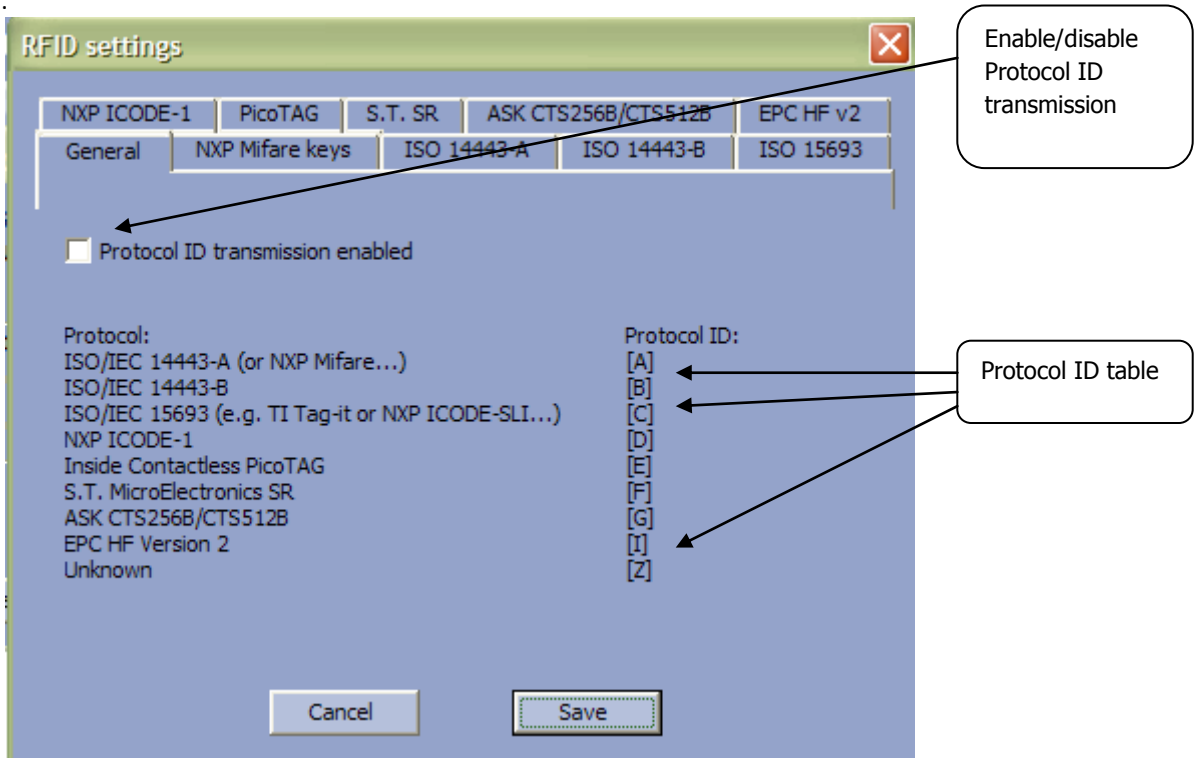
12.4. Symbology settings

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

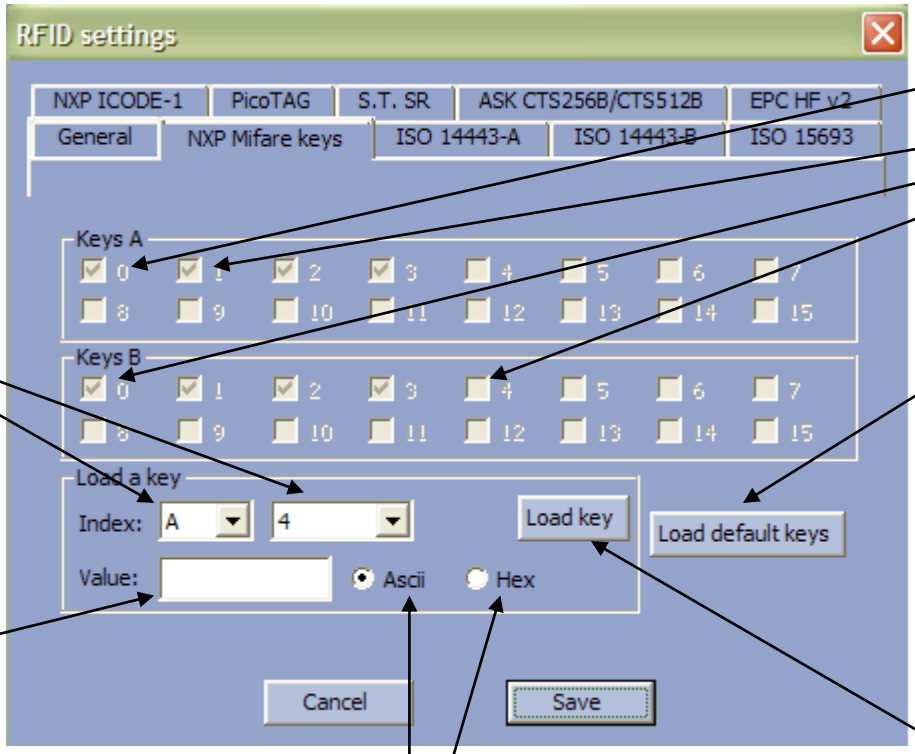


12.5. RFID settings

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:



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



These combo boxes can be used to select the index of the key to be loaded.

This text box can be used to set the value of the key to be loaded (max. 4 characters).

Checkboxes show which keys are currently loaded. The first four A and B keys are reserved.

This button can be used to load the default keys and remove any keys set by the user from the reader's memory.

This button can be used to load the selected key to the value set in the textbox.

These controls change the format of the textbox (key value) to ASCII or Hex.

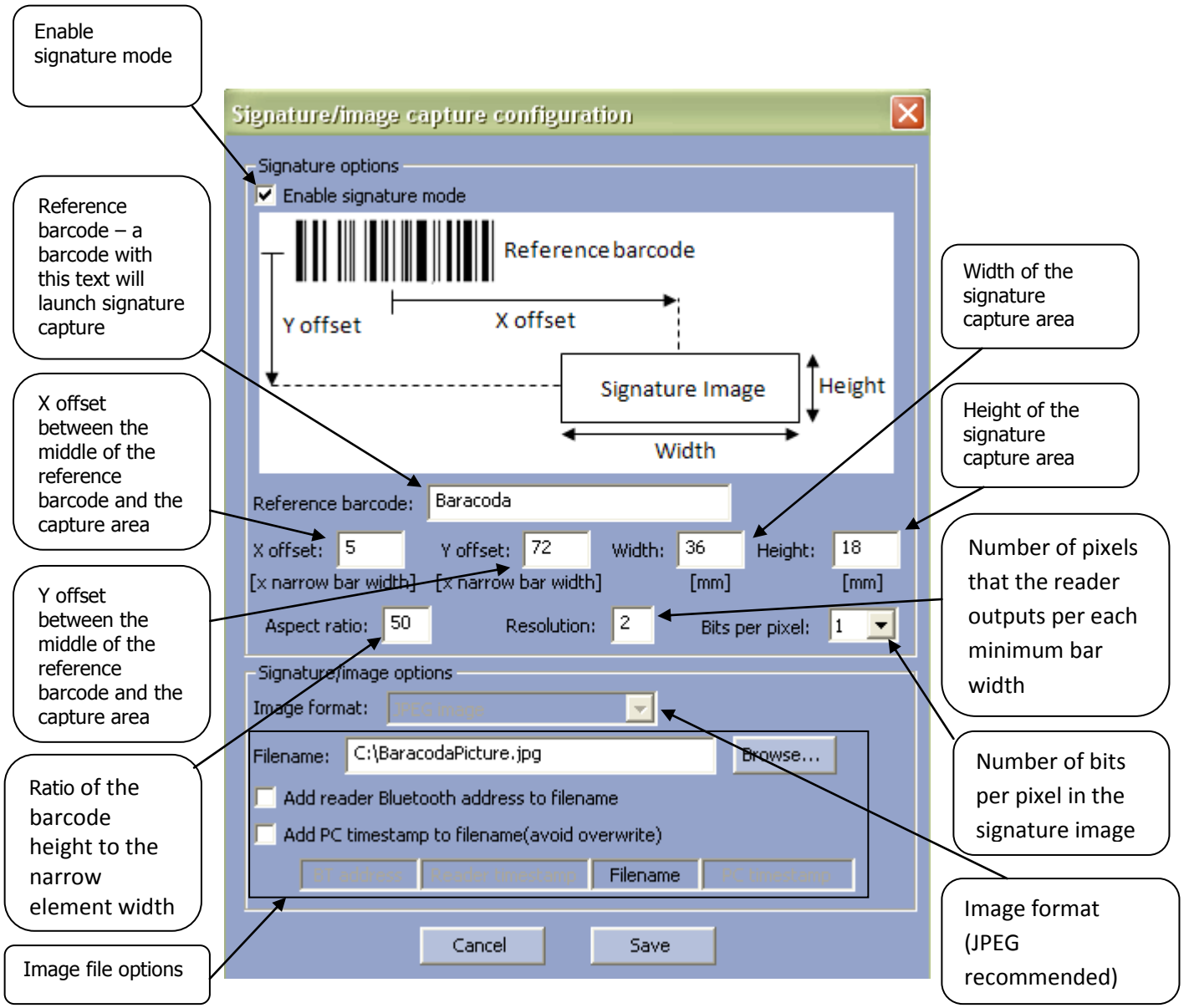
The other tab windows, named "RFID Protocols", can be used to enable/disable the type of RFID tags that will be read by the DualRunners reader.

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.

Please note that the signature and image modes are only available for DualRunners 2D readers with firmware versions 1.46 and newer.



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). This setting also applies to batch mode.

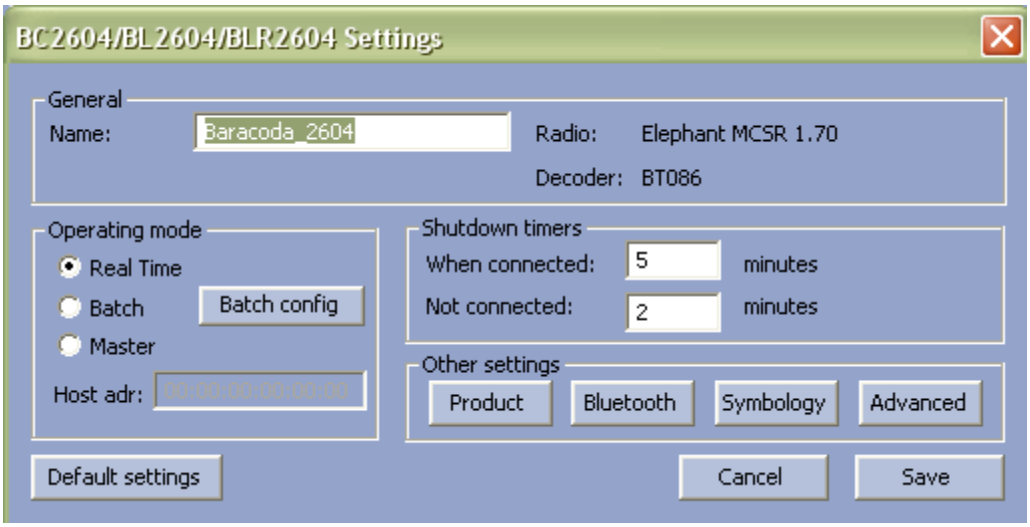
Filename – specified in the "Filename" text field

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).

Please note that the above filename settings apply to real time mode only (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 "Batch mode settings" chapter.

13. 2604 series settings (for BC2604, BL2604, BLR2604)



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:

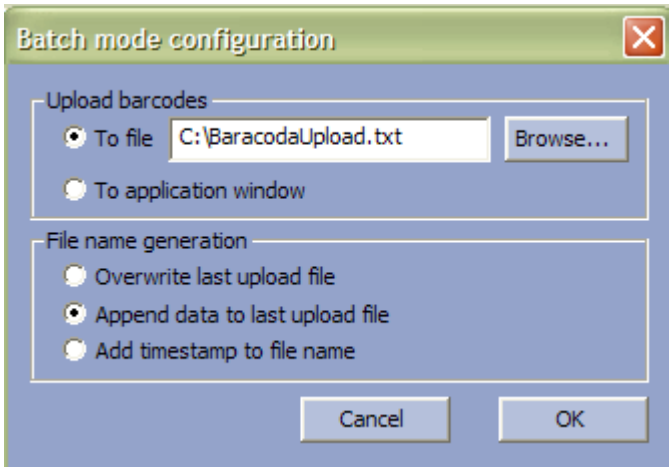
Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Default Settings	Restore the factory settings. The barcode reader (flash) memory is erased and the factory default parameters are restored. Check the device manual for details.

13.1. Batch mode settings

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

1. Upload barcodes to a file
    - 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

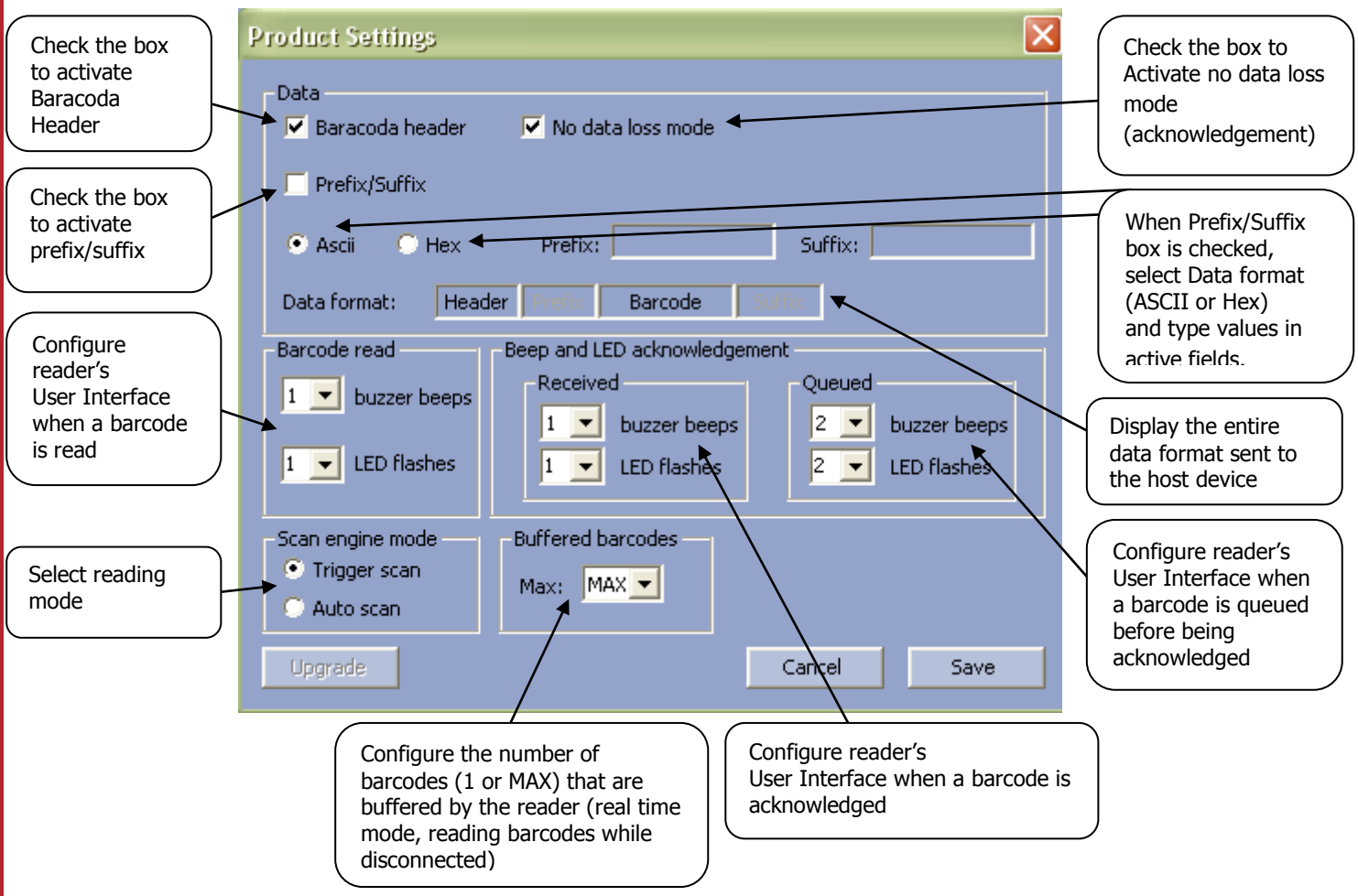
(for more information see the paragraph "Uploading data stored in batch mode")



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

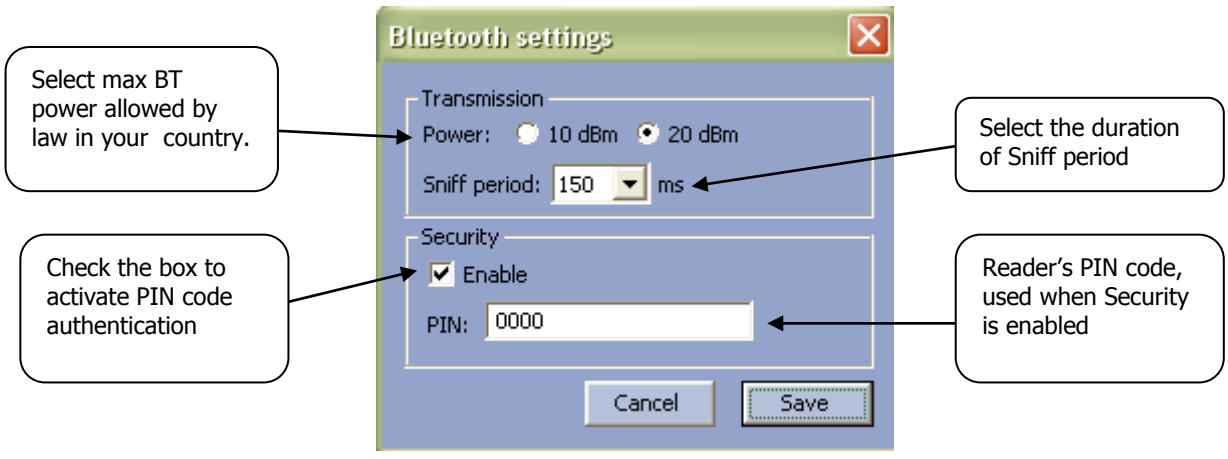
13.2. Product settings

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



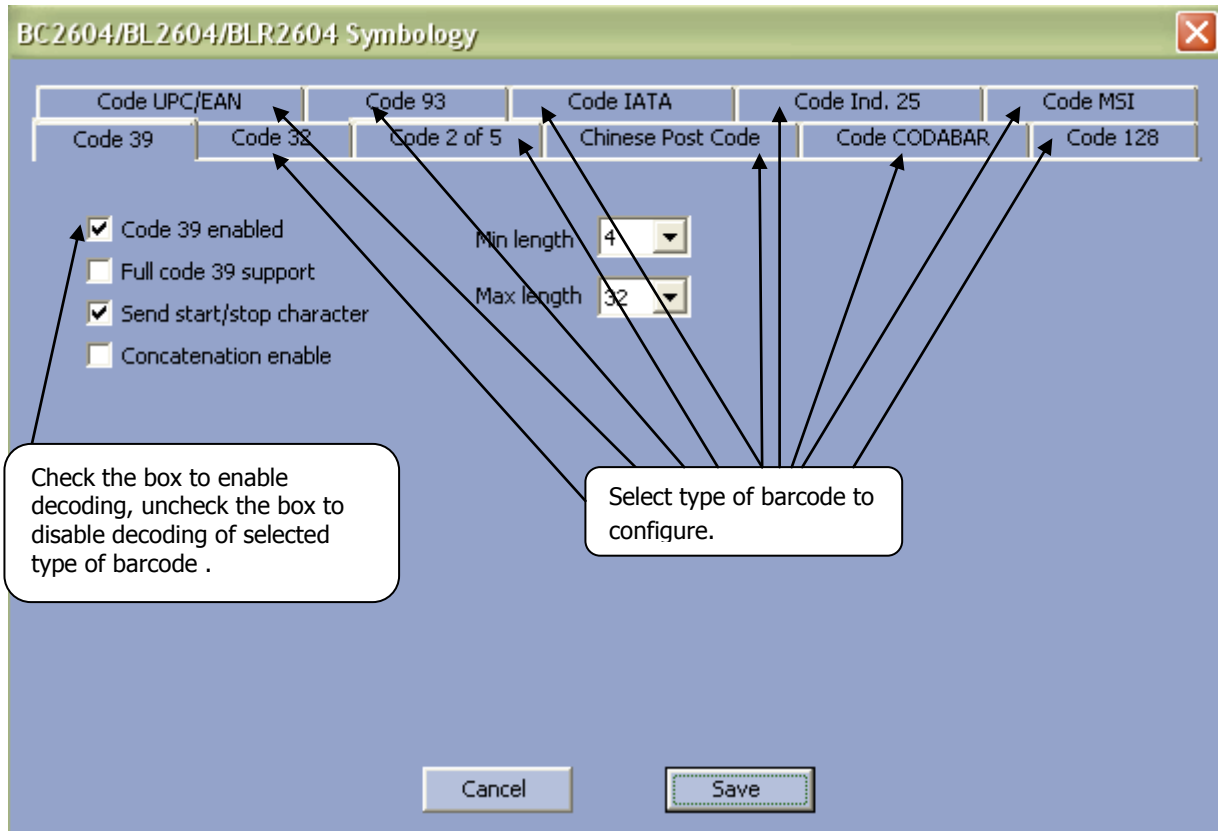
13.3. Bluetooth settings

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



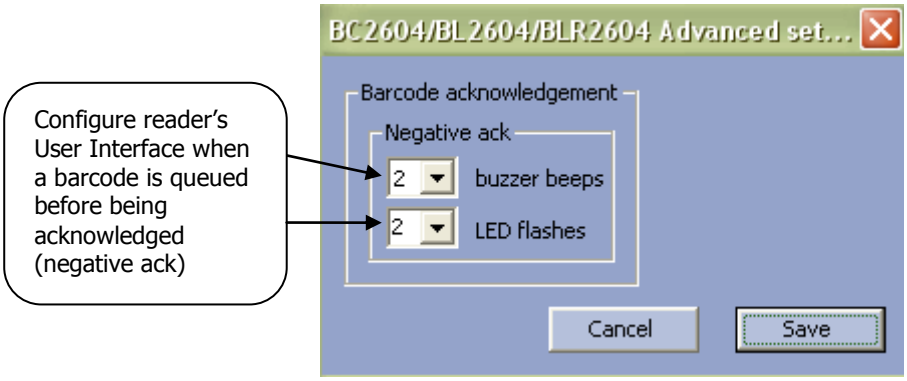
13.4. Symbology settings

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

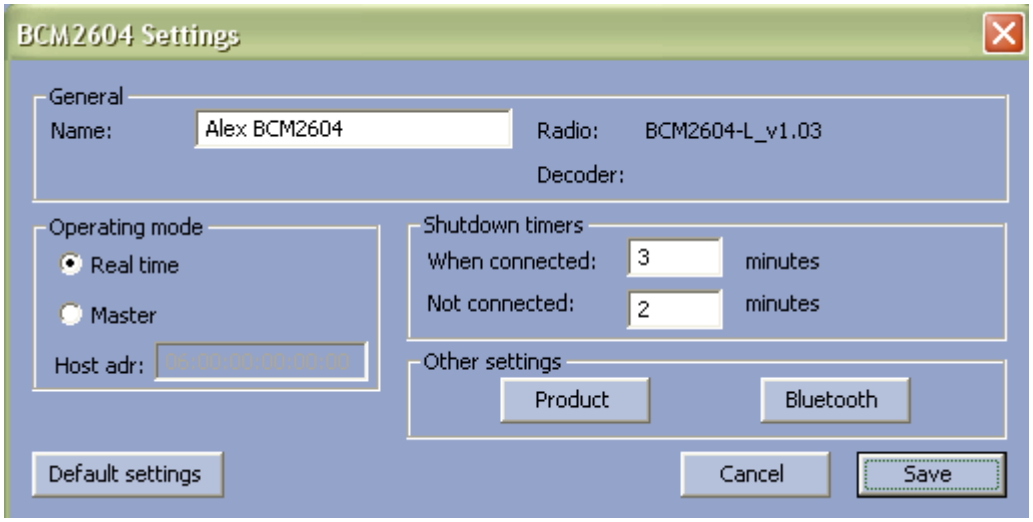


13.5. Advanced settings

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



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:

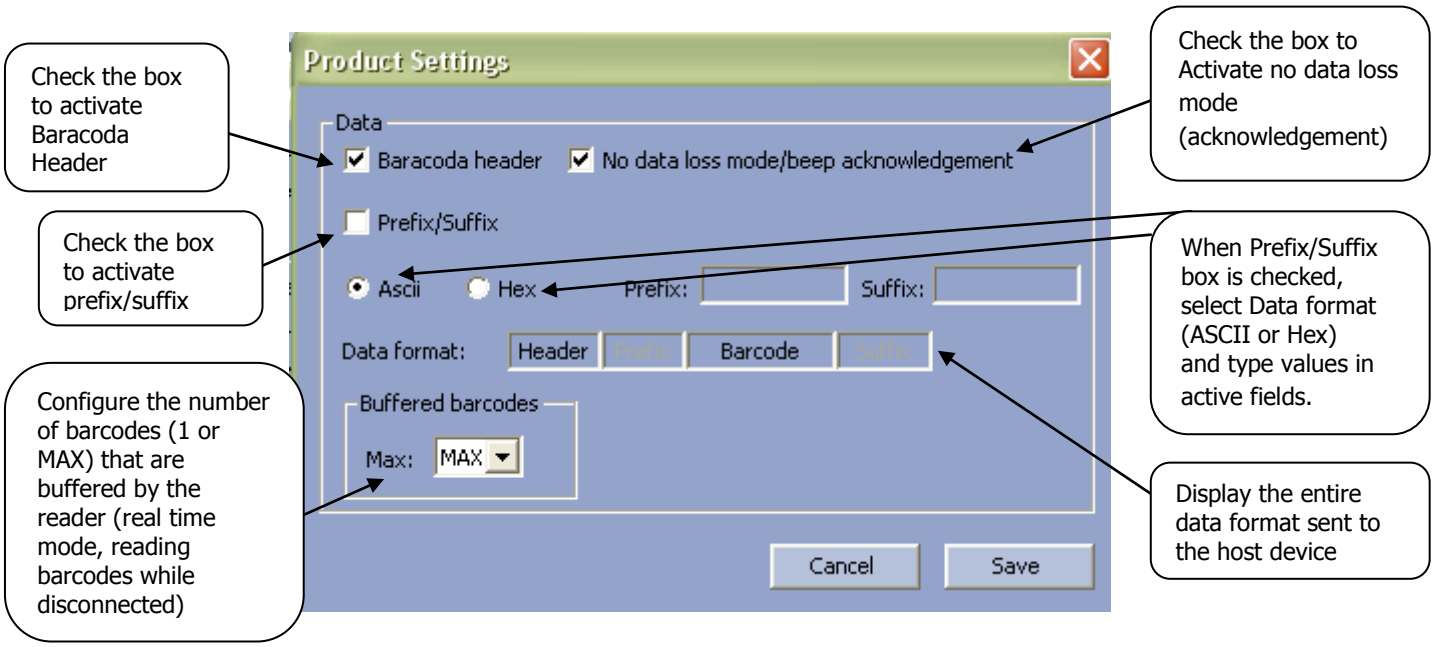
Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)

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.

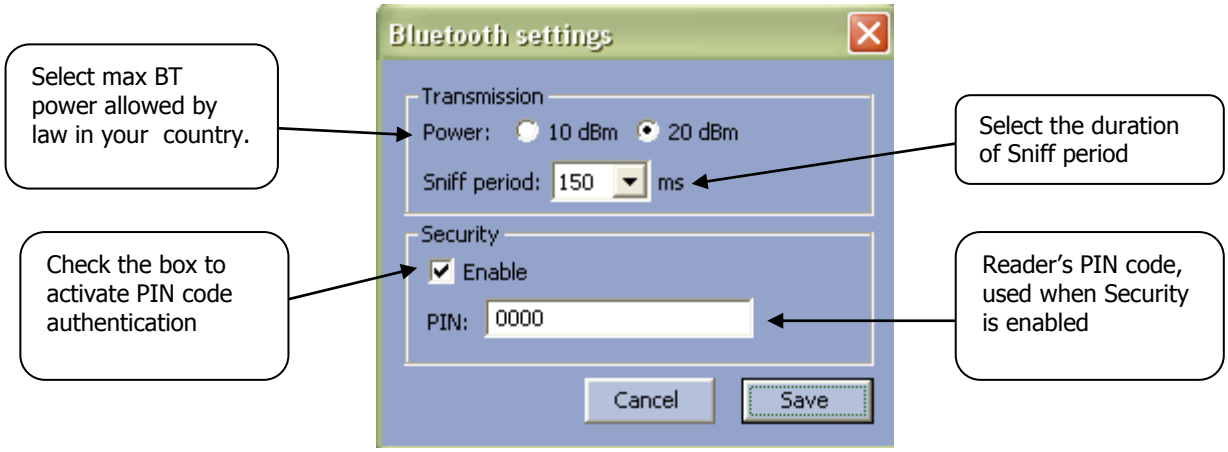
14.1. Product settings

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

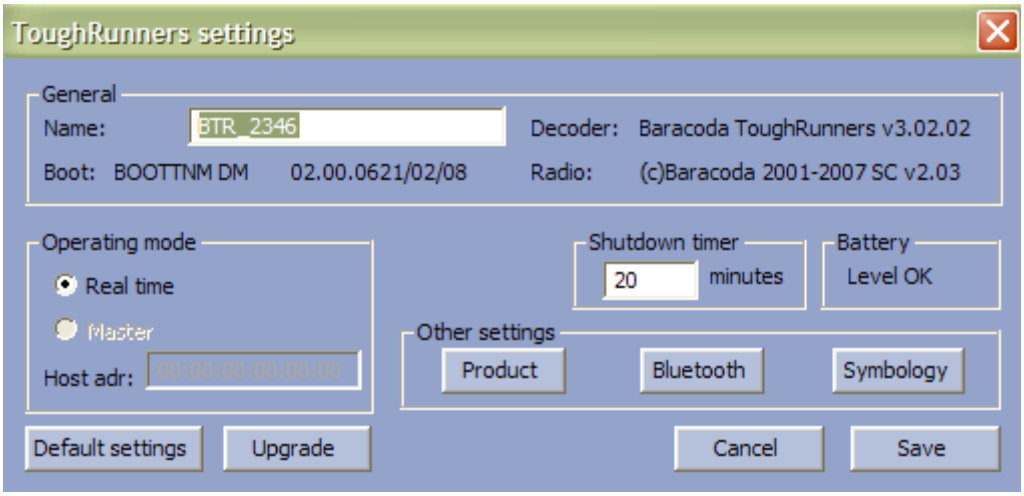


14.2. Bluetooth settings

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



15. Baracoda ToughRunners and ScanWear settings



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
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).

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

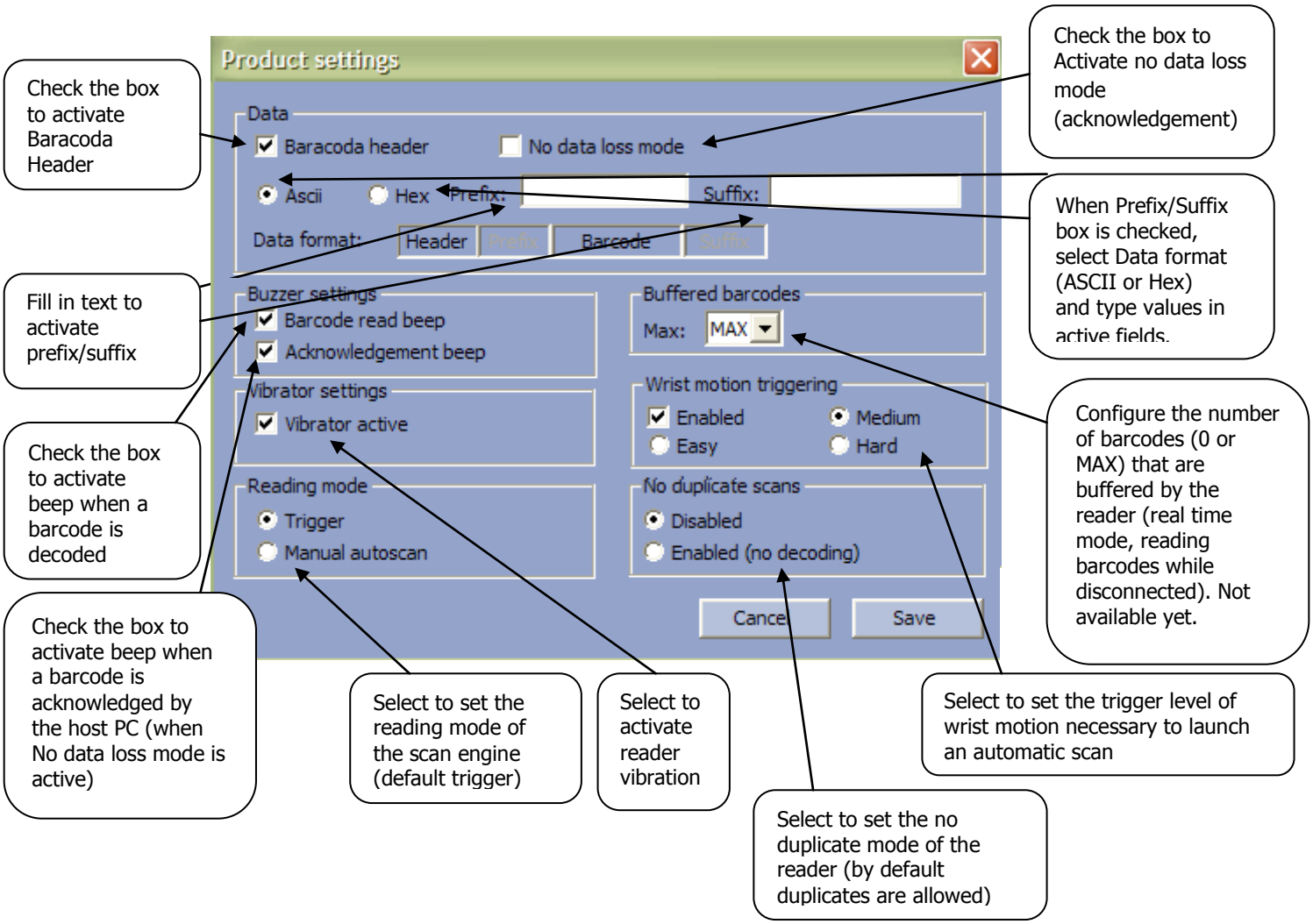
Button	Functionality
Product	Access product settings (see below)
Bluetooth	Access Bluetooth connection settings (see below)
Symbology	Access types of barcodes settings (see below)

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.

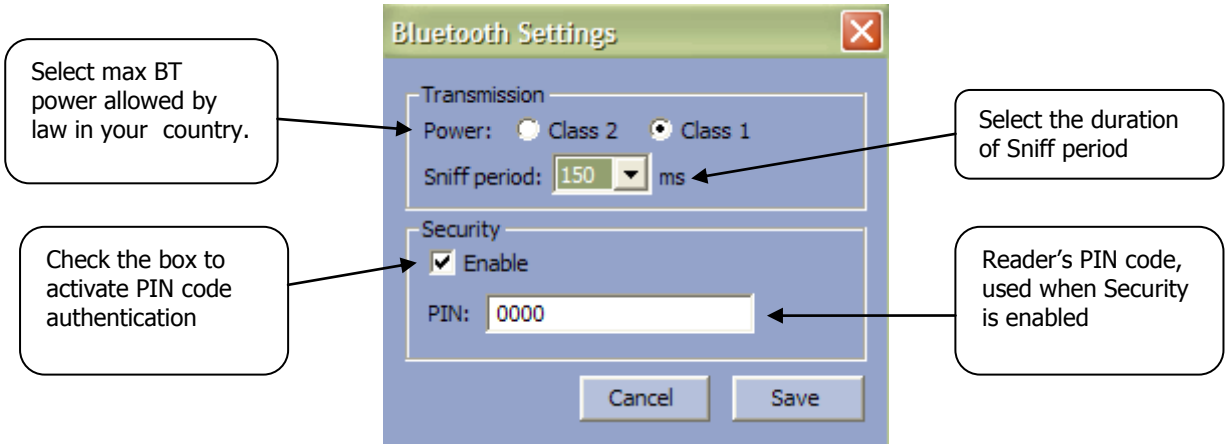
15.1. Product settings

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



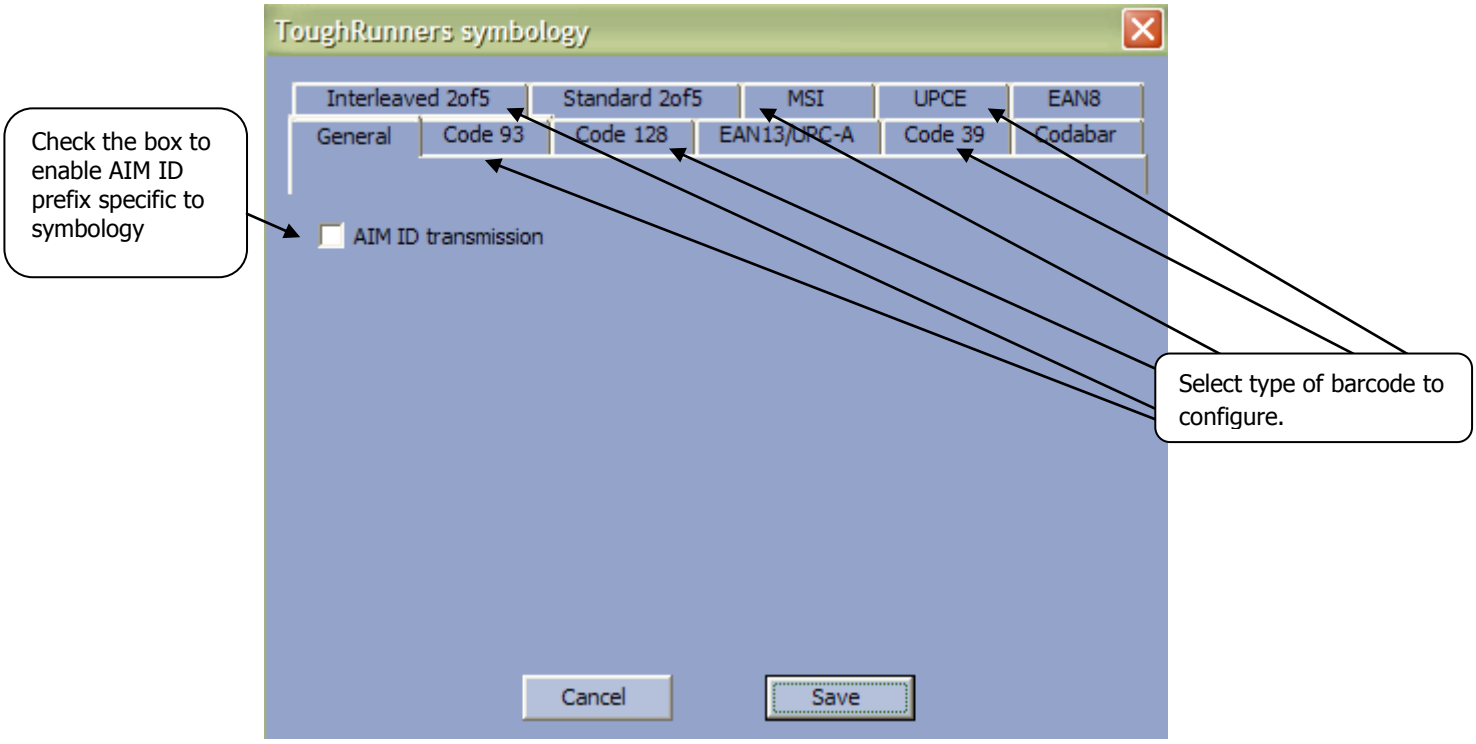
15.2. Bluetooth settings

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

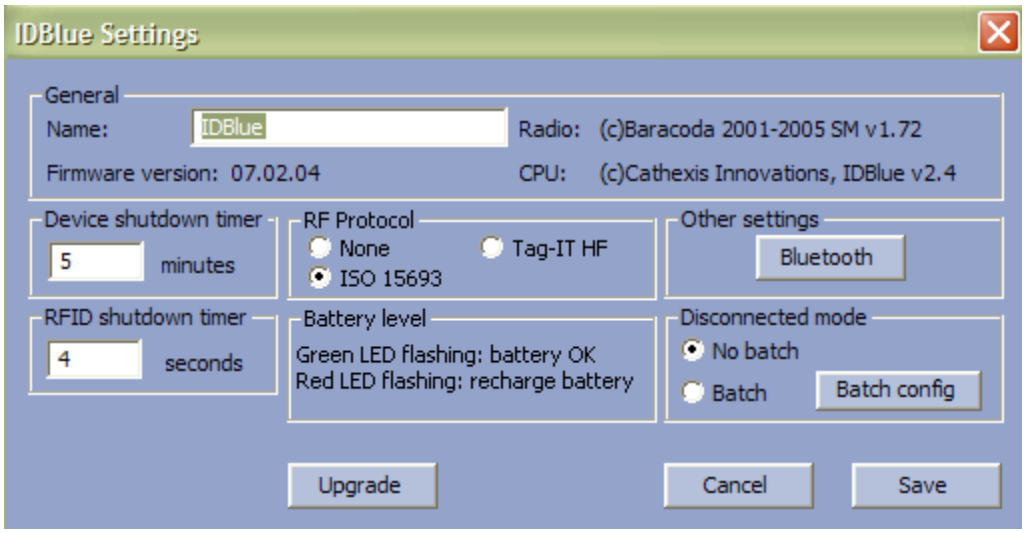


15.3. Symbology settings

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



16. IdBlue settings



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.

The following table shows the Battery field:

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)

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

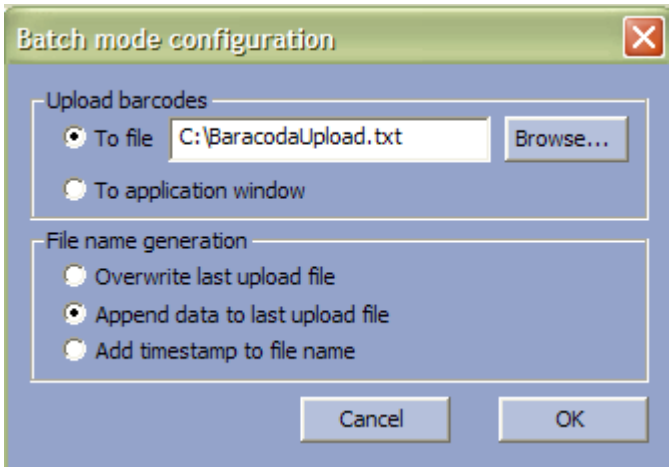
Button	Functionality
Cancel	Close window with no changes.
Save	Store and send the new parameters to the barcode reader.
Upgrade	Ugrade the reader's firmware. Please check Chapter 16 for details.

16.1. Batch mode settings

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

1. Upload barcodes to a file
   - 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

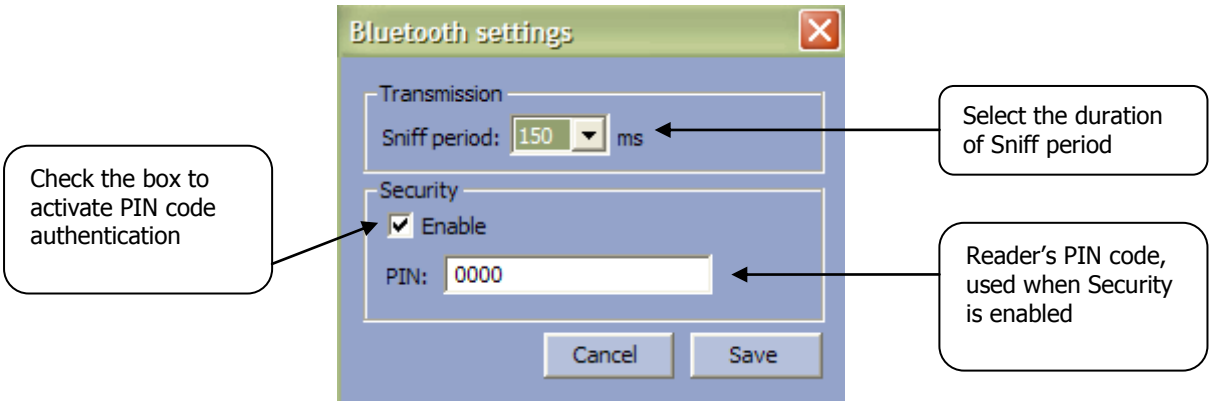
(for more information see the paragraph "Uploading data stored in batch mode")



Button	Functionality
Browse	Choose a file name and path to store the barcodes
OK	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.



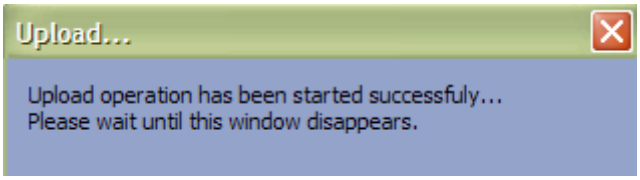
17. Uploading data stored in batch mode

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.

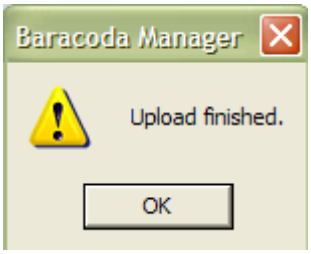
Users can set the batch settings to one of the following options:

- Upload data to file (default option)
  - 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:

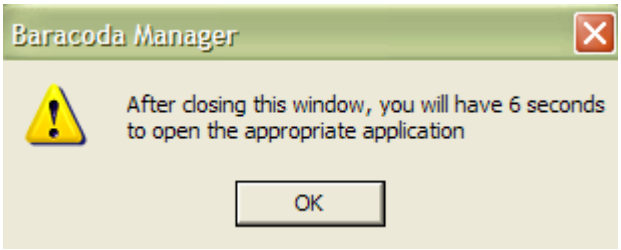


This message will be displayed as long as the upload operation is in progress. When all barcodes have been uploaded, the user will be shown a confirmation popup:



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:

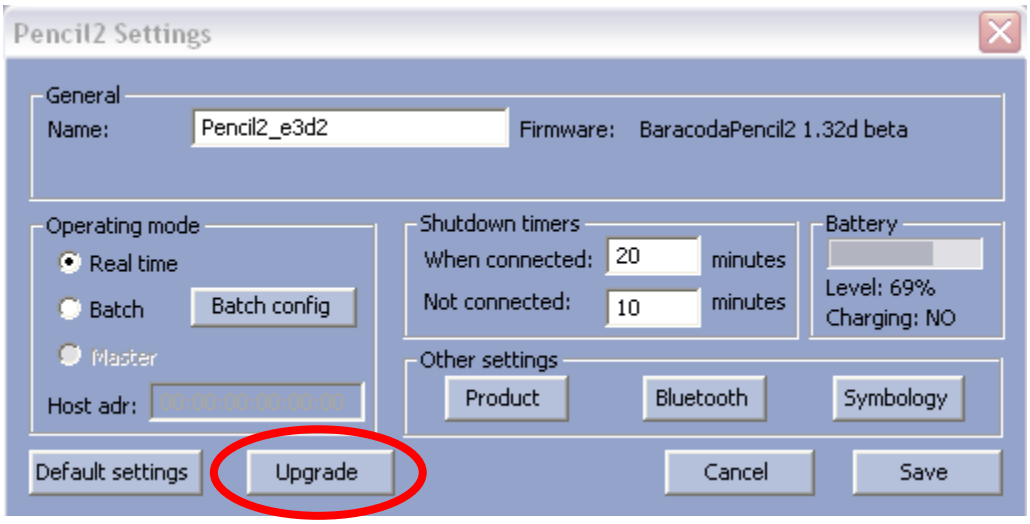


The user should make sure their application is active, then click on the pop up and immediately go back to the application where they want the barcodes to be uploaded.

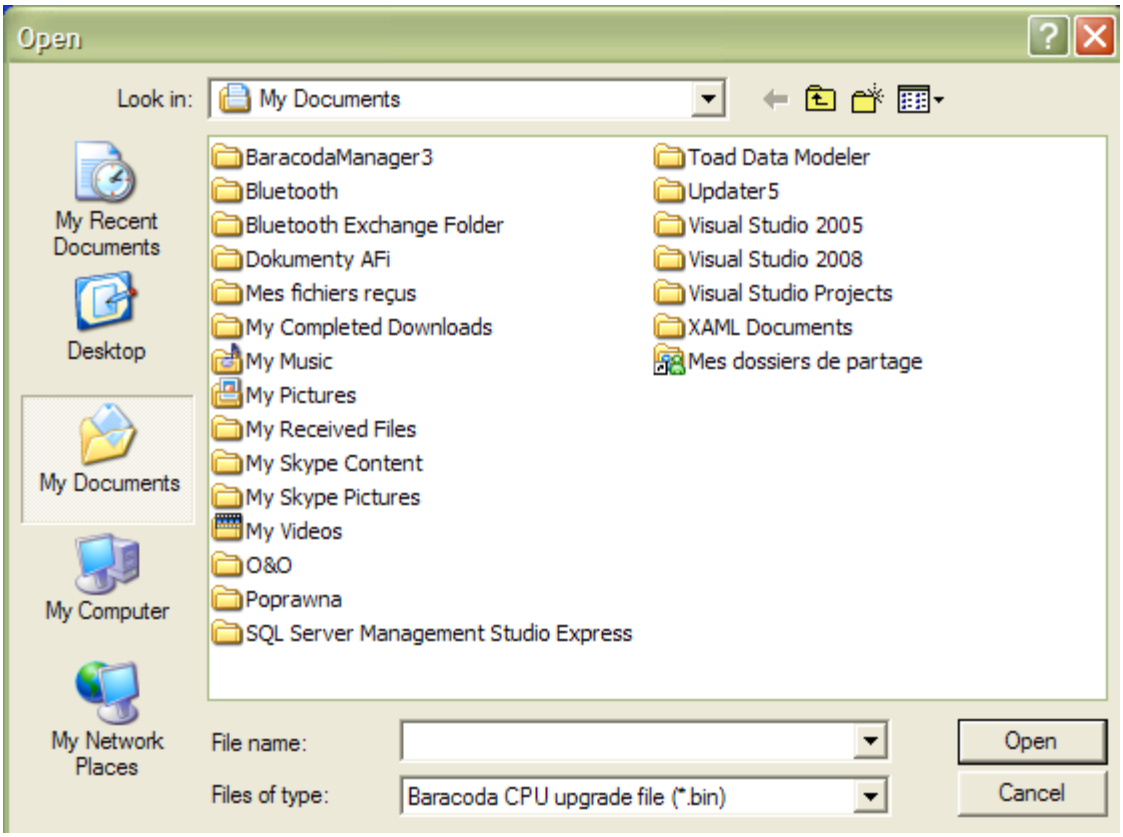
Note: the upload operation can be launched by scanning the corresponding barcode from their programming guide. The reader should be connected to the **BaracodaManager** before this is done.

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.

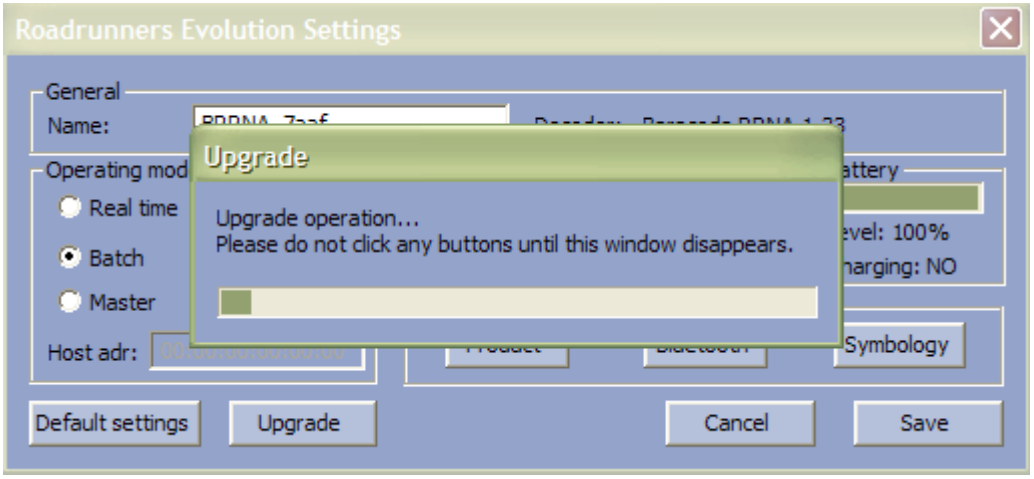


As soon as the button has been clicked, an open-file dialog window is shown. The user should browse for the upgrade file:

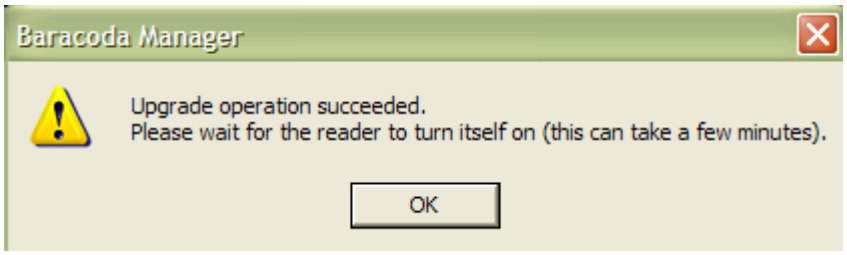


Current upgrade files can be found in the partners section of the www.baracoda.com website (registration is necessary). Any additional notes/instructions can be found in those files.

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



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:



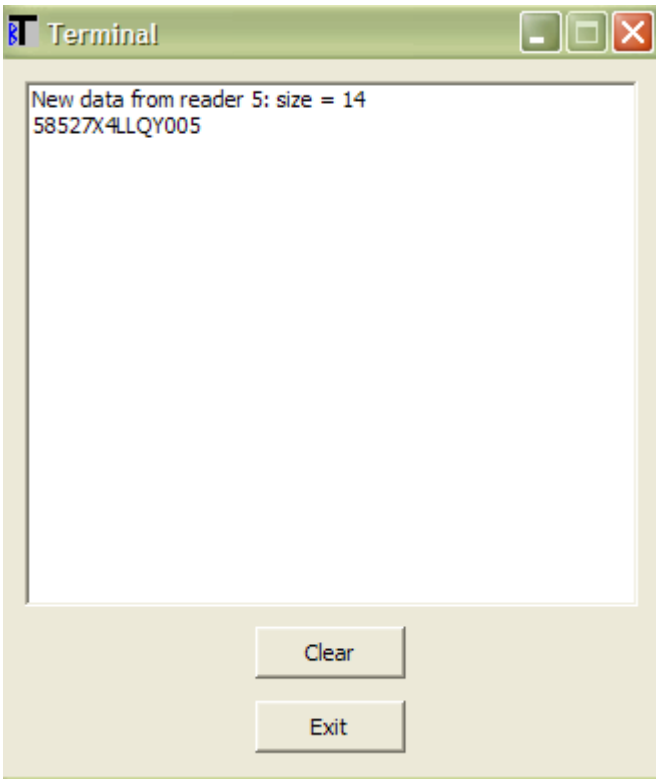
Most readers (Pencil2, D-Fly, Roadrunners Evolution) turn themselves on automatically when they are ready to be used. The Roadrunners and Pencil need to be turned on (they turn themselves off when the upgrade operation is over).

Note: the upgrade process of the Baracoda Pencil reader 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

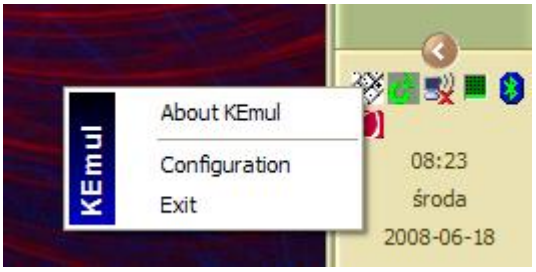
The Terminal function allows the user to display scanned barcode(s) when the reader is connected in Real Time mode.

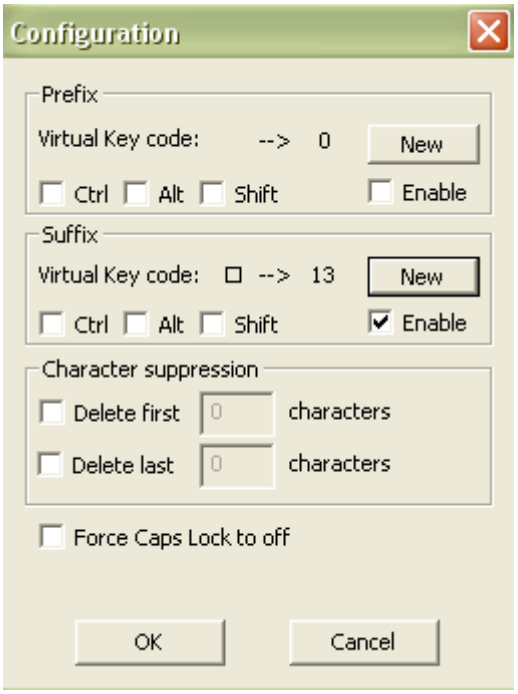


19.2. KEmul plugin

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):

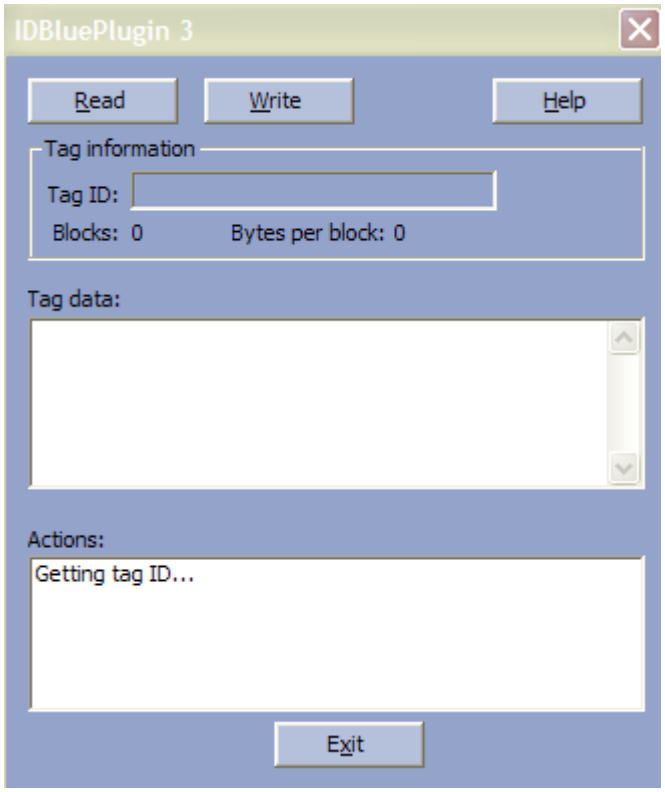




The KEmul plugin works also via Terminal Server sessions.

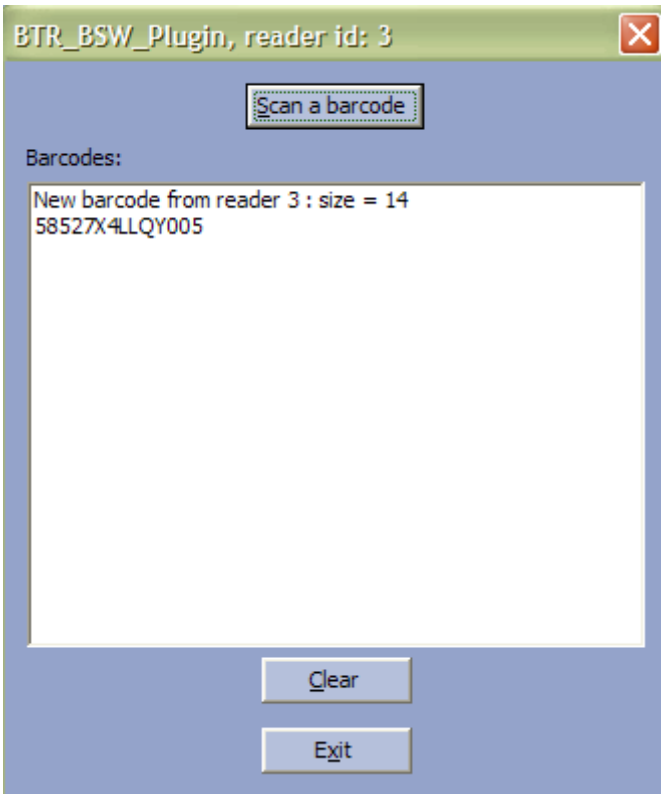
19.3. IdBlue plugin

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.



19.4. BTR_BSW plugin

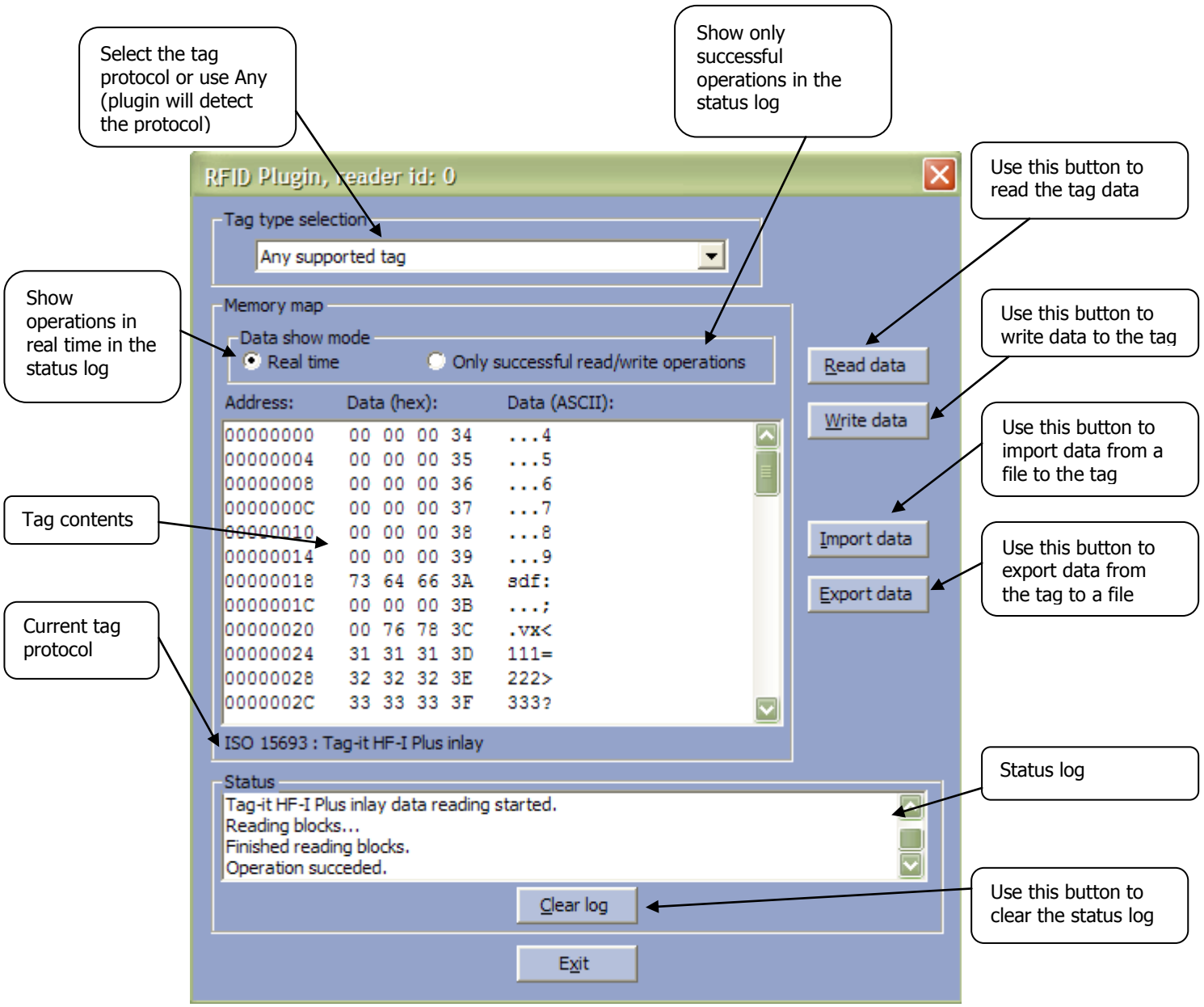
This plugin shows that the Baracoda ToughRunners/ScanWear readers can scan barcodes when sent a special command (described in their protocol guide). When the user clicks the “Scan a barcode” button, the reader will turn on the scan engine. If a barcode can be decoded, it will be shown on the plugin window.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



19.5. RFID Plugin

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.

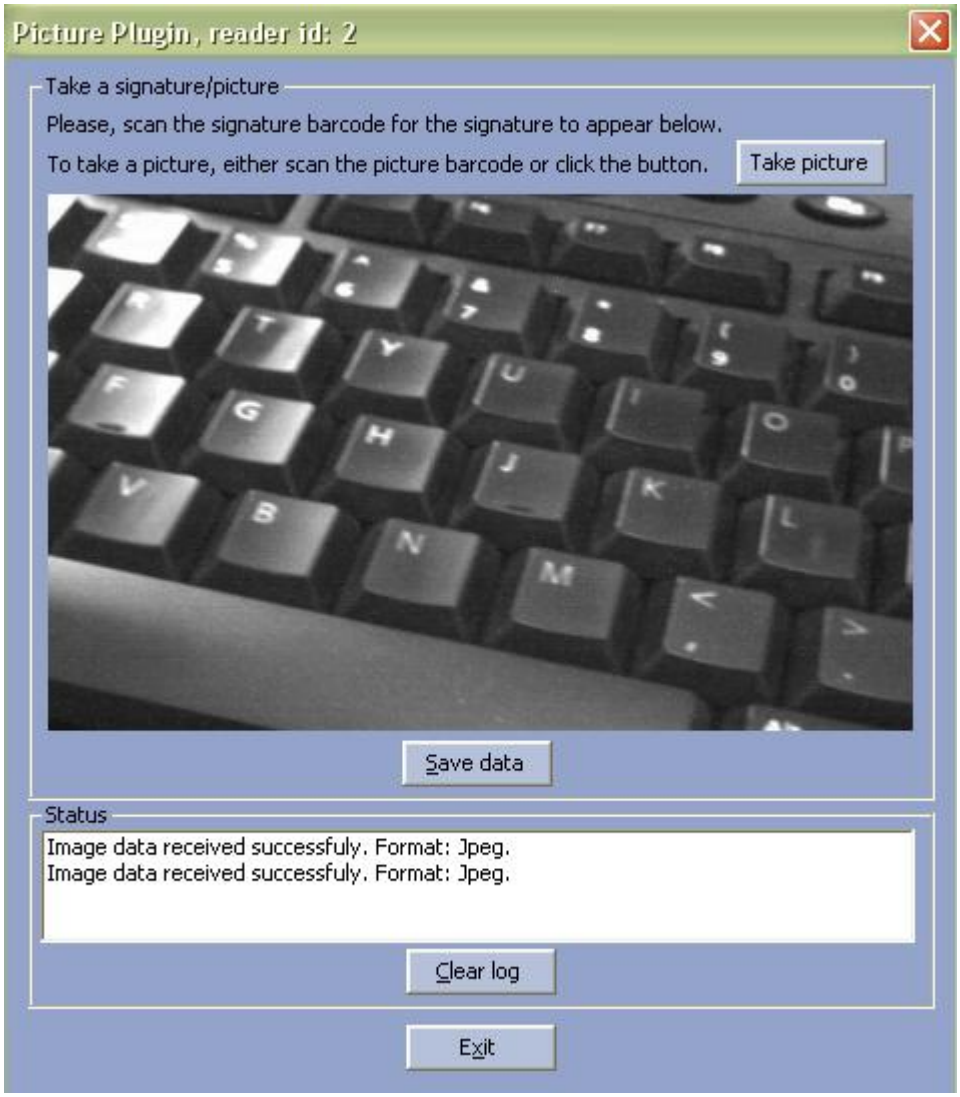


19.6. PicturePlugin

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 Signature/image configuration settings for the RoadRunners Evolution 2D and Signature/image configuration settings for DualRunners 2D) and in real time mode (**not in batch mode**).

The following screenshot shows the main window of the PicturePlugin:



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.