

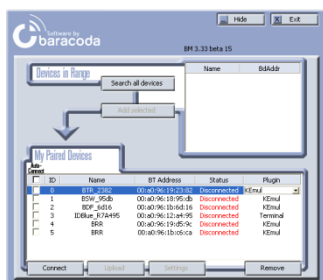
# Baracoda Instant Connectivity Solutions

Baracoda continuous innovations increase the usability of your products and solutions.

Comparison between our BaracodaManager software and Baracoda Plug & Scan solutions

## BARACODA MANAGER OFFER

## PLUG & SCAN SOLUTIONS



<b>Installation</b>	If your host is not Bluetooth-enabled, install Bluetooth generic dongle and Baracoda Manager software on it.	Simply plug the Dongle (USB or RS232) into your host, scan the Connect barcode and use!
<b>Advantages</b>	Mobile solution, perfectly adapted to mobile workers requirements.	Easy to install, easy to use! No driver installation or software required!
<b>Compatibility</b>	Any host with Microsoft or Widcomm/Broadcomm Bluetooth stacks.	Any host that can support USB keyboard emulation or equipped with an RS232 port.
<b>Number of connected devices</b>	Up to 7 simultaneously	1 to 1 – Point-to-Point connection
<b>Reading modes</b>	Real time, No Data Loss, Batch	Real time, No Data Loss, Batch
<b>Automatic reconnection</b>	Yes	Yes
<b>Barcode bufferisation</b>	Yes	Yes
<b>Prefix / Suffix</b>	Yes	Yes
<b>Scanners' compatibility</b>	All Baracoda Bluetooth readers	All Baracoda Bluetooth readers (except IDBlue & TagRunners)

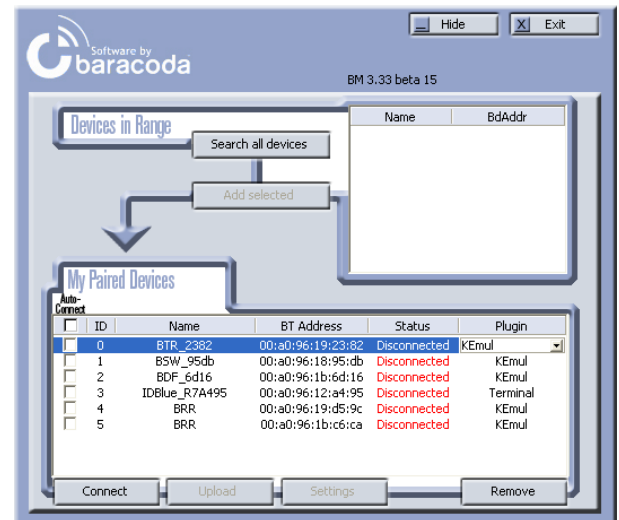
# BaracodaManager software

## DESCRIPTION

This software represents the real added-value offer of Baracoda. It is very easy to install and straightforward to use. Very user-friendly, with only a few buttons, the BaracodaManager allows the end user to insert read barcodes (or RFID tag IDs) text into a field that you select in your application program (KEmul plug-in) or to display them (Terminal plugin).

Features:

- Very easy connection (one-click connectivity)
- Automatic reconnection
- Data buffering and automatic retransmission
- Possibility to add a prefix or a suffix to read data
- Possibility to configure the Baracoda reader, including Bluetooth parameters (sniff mode, power emission)



**The BaracodaManager is compatible with the following OSs and Bluetooth stacks. To learn more about the list of compatible devices, please refer to the Baracoda Compatibility Table.**

### PC / Tablet PC:

#### Windows 7 / Vista / XP

Widcomm stack 1.2.x.x, 1.3.x.x, 1.4.x.x, 3.0.x.x  
Broadcom Widcomm stack 4.0.x.x, 5.x.x.x (6.x on Vista)  
Microsoft stack  
Up to 7 scanners connected (PC in Master mode)

### PDA (with touch screen)

#### Windows Phone 6.5, Windows Mobile 5/6, Pocket PC 2002/2003, Palm OS, WinCE.NET

Widcomm stack 1.3.x.x, 1.4.x.x, 1.5.x.x  
Broadcom Stack 1.x.x.x  
Microsoft stack (especially for WinCE devices with embedded Bluetooth stack)  
1 scanner connected at maximum (PDA in master mode)

### Smartphone (no touch screen)

#### Windows Mobile 5/6 (Standard)

Microsoft stack  
1 scanner connected at maximum (smartphone in master mode)

### Android tablets & smartphones

Available on Android v2.1 and newer supporting SPP profile

### Mobile phone

BlackBerry OS from 4.x  
Nokia S60 V2 / V3, Sony-Ericsson (J2ME)  
Nokia S80, S60 V2 (Symbian), S60 V3 platform (Symbian 9.x)  
Sony Ericsson UIQ2 / UIQ3 platform (Symbian 9.x)  
Motorola i605/i615 (J2ME)  
1 scanner connected at maximum (mobile phone in master mode)

All our applications/SDKs are available on our website:

<http://www.baracoda.com/baracoda/support/> ("Compatibility Table" section).

# Connect & Scan software

## DESCRIPTION

Software based on our Classic BaracodaManager software but allowing to show a Connect barcode directly on the screen of your PC or PDA (the Microsoft Bluetooth stack is necessary). You only need to scan this barcode to establish a Bluetooth connection between the terminal and the scanner automatically.

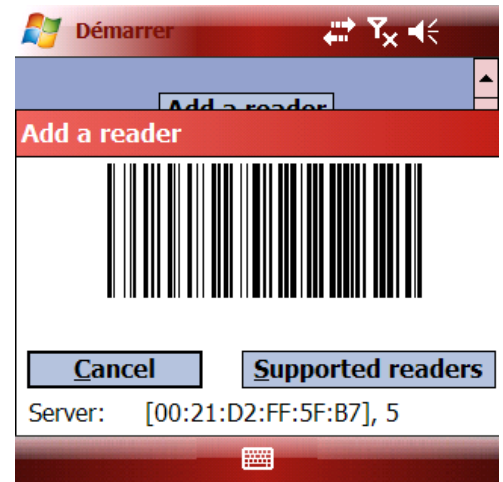
Scan the barcode shown on the PC or PDA screen and get instantly connected. No Search & Pairing process!

**Functions:** same as our Classic BaracodaManager software.

**Available on the following platforms:** PC and PDA platforms running Windows OS and using Microsoft Bluetooth stack.

**Compatible with the following Baracoda readers:** Pencil2 (firmware version v1.34 and newer) / D-Fly (firmware version v1.34 and newer) / all RoadRunners Evolution (firmware version v1.34 and newer) / DualRunners (firmware version v1.40 and newer).

The Connect & Scan software allows the end user to insert read barcodes (or RFID tag IDs) text into a field that you select in your application program (KEmul plug-in) or to display them (Terminal plugin).



## Features:

- Very easy connection (one click connectivity)
- Automatic reconnection
- Data buffering and automatic retransmission
- Possibility to add a prefix or a suffix to read data
- Possibility to configure the Baracoda reader, including Bluetooth parameters (sniff mode, power emission)

*The Connect & Scan software is compatible with the following OSs and Bluetooth stacks. To learn more about the list of the compatible devices, please refer to the Baracoda Compatibility Table.*

**PC / Tablet PC:**

**Windows 7 / Vista / XP**

Microsoft stack

Up to 7 scanners connected (PC in Master mode)

**PDA:**

**Windows Phone 6.5, Windows Mobile 5/6**

Microsoft stack

1 scanner connected at maximum (PDA in master mode)

**Mobile phone**

**BlackBerry OS from 4.6**

1 scanner connected at maximum (mobile phone in master mode)

All our applications/SDKs are available on our website:

<http://www.baracoda.com/baracoda/support/>

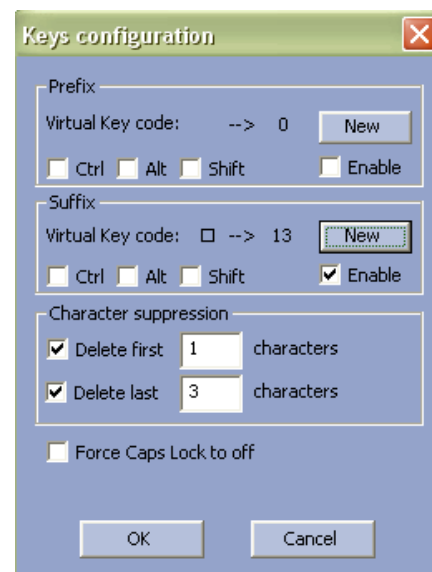
("Compatibility Table" section).

# K-Emul Standalone software

## DESCRIPTION

K-Emul lets the user take advantage of all Baracoda products and insert scanned barcode (RFID tag ID) text into a text field. It is also possible to add a prefix and suffix and delete characters from received data text.

Moreover its great advantage is that it works on every Bluetooth stack supporting the SPP profile.



***The KEMUL is compatible with all Bluetooth stacks that support the SPP profile. To learn more about the list of the compatible devices, please refer to the Baracoda Compatibility Table.***

All our applications are available on our website:

<http://www.baracoda.com/baracoda/support/>

("Compatibility Table" section).

# SDK (Software Development Kit)

## GENERAL DESCRIPTION

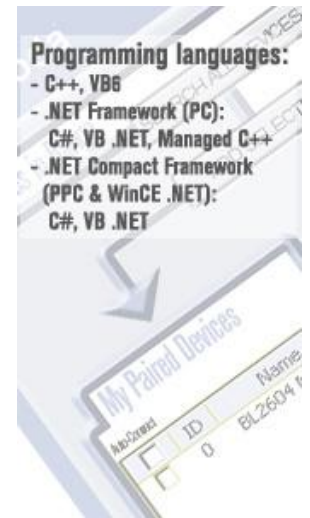
Our APIs are available for most popular platforms and integrate the necessary features directly in a mobile application: connect / disconnect / read data / acknowledgement, etc...

The BaracodaManager/Connect & Scan is an application integrating the Bluetooth user interface to allow the end user to connect devices very rapidly with one-click connectivity.

Moreover, it allows the user to configure and use Baracoda devices in a very easy way.

The BaracodaManager/Connect & Scan uses a specific library that provides an abstraction layer allowing the developer to integrate Baracoda products to his application very rapidly.

The library deals with low level routines, timeouts, connection and configuration management.



## IMPLEMENTED FUNCTIONALITIES

Here is a short list of implemented functionalities:

- Device inquiry
- SPP service discovery
- Connection/disconnection and automatic connection
- Scanner configuration
- Data upload
- Data reception, acknowledgement and processing
- Plug-ins management

*These libraries are at the disposal of developers that want to integrate the collected barcode data into their application.*

*The Baracoda Bluetooth SDK will be of interest for all developers of mobile applications that do not want to deal with the Bluetooth protocol complexity and just need easy tools to be able to communicate wirelessly to their application with a Bluetooth barcode scanner.*

## The easiest way to integrate the Bluetooth functionality into your existing applications!

Bluetooth protocol is very complex and developing even simple application requires great expertise in this communication protocol.

In addition, numerous interruptions (with a very high level of priority) are generated. It is therefore a question of fine management of these interruptions and the different real-time aspects related to them. The Baracoda SDK gives an abstraction to the Bluetooth's protocol complexity. For example, instead of a set of several commands to create a Serial Port Profile connection (device discovery, service discovery, pairing, connection), with Baracoda SDK the developer will easily create the connection just with one command. This leads to:

- 1- Reduced time to market and development efforts on the client side.
- 2- Reduced memory and processing power requirements on the client processor hardware.

**TWO VERSIONS AVAILABLE:****Plugin version:**

The plugin SDK is designed to be used with the BaracodaManager. This means that the BaracodaManager handles all Bluetooth-related tasks as well as all product settings. Data will be directly sent from the BaracodaManager to the plug-in. Plugins also receive connection information. Plugins can be developed in C/C++ and .NET

**Full version:**

The full SDK is designed to create standalone applications. In other words, the developer writes their own BaracodaManager-like application that will need to take care of the three layers:

- Configuration
- Bluetooth
- Data parsers (barcode, RFID tag ID)
- Read/write to RFID tag memory
- Image and signature capture

The programming language required is C++ or .NET

All our SDKs are available on our website:

<http://www.baracoda.com/baracoda/support/>  
("Compatibility Table" section).

# Communication Protocol

## GENERAL DESCRIPTION

We provide free of charge a Communication Protocol Guide for all our readers allowing developers to use the native (low level) commands for integration of their software solutions.



Documentation is available on our website:

<http://www.baracoda.com/baracoda/product/>

(Select your scanner first and then go to the "Communication Protocol" section).

# Plug & Scan solutions

## GENERAL DESCRIPTION

For instant connection with Baracoda Bluetooth Scanners.

No additional driver or software needed!

Installation takes a few seconds – simply plug, scan the Connect barcode and you

RS232 & USB dongle casing / wedge cable versions available

Bluetooth Class 1 product – up to 100m operational range (300ft)

The Plug & Scan solutions from Baracoda are compatible with all Baracoda readers (except the IdBlue and TagRunners)



## IMPLEMENTED FUNCTIONALITIES

The Plug & Scan Dongle simplifies the use and installation of Baracoda Bluetooth scanners by keeping Baracoda products' main features:

- Beep acknowledgment
- Connection/disconnection and automatic connection
- Data buffering
- Barcodes/RFID tag ID upload



Documentation is available on our website:

<http://www.baracoda.com/baracoda/product/>

## About Baracoda

Baracoda is the world's first and only manufacturer offering a full range of Bluetooth barcode and RFID scanners. Baracoda's field-proven wireless and barcode scanning solutions provide its customers and partners with efficient tools that are innovative, reliable and convenient to use, simplifying integration for a quick Return on investment.