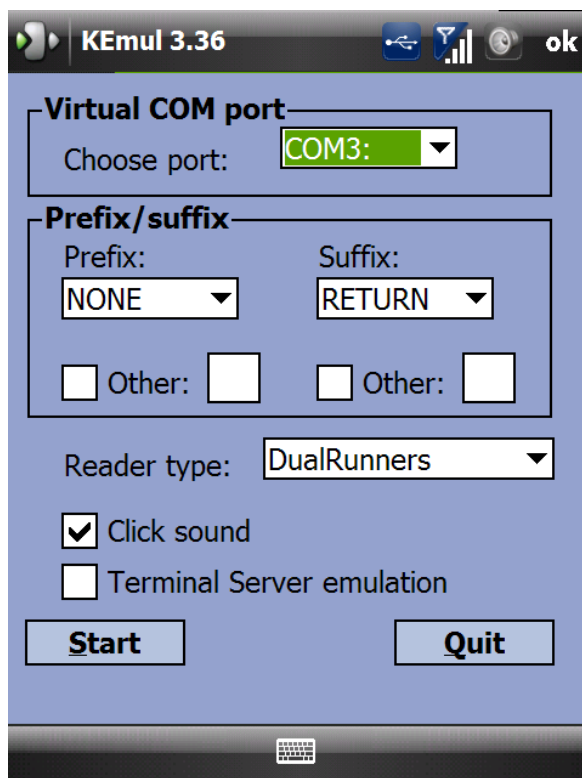


KEmul for PDA User Guide

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SUMMARY

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Revision History

Changes to the original manual are listed below.

Document	Date	Description
1.0	6 th June 08	Initial release
3.35	18 th December 08	Click sound added, TagRunners added
3.36	2 nd March 09	DualRunners added, Terminal Server remarks
3.36.3	10 th September 09	Version update

Introduction

The **KEmul** (keyboard emulator) for **Pocket PC and Windows Mobile** devices can be used on all Bluetooth stacks that are currently available on the market (Widcomm/Broadcom, Microsoft, Toshiba and others). It connects to an outbound virtual COM port installed on the PDA by the Bluetooth stack to read data from a Baracoda reader. This data will be transformed into keyboard strokes corresponding to the scanned barcode text.

The **KEmul for Pocket PC and Windows Mobile** can be downloaded from the Partners download section of Baracoda website (registration is required):

<http://www.baracoda.com>

1. KEmul configuration

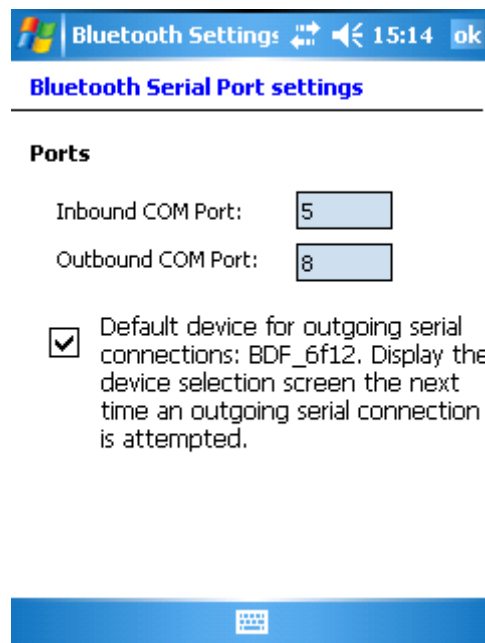
The KEmul application should be configured prior to its first usage. In the following section the user will find an explanation of all available options. Please note that the settings are saved by KEmul before quitting and they are restored when the application is launched afterwards.

1.1 Bluetooth COM port configuration

First thing that needs to be configured before the KEmul is used is the virtual COM port provided by the Bluetooth stack on the PDA. There are usually two kinds of ports:

- inbound port (used by Bluetooth devices connecting to the PDA)
- outbound port (used by applications on the PDA wishing to connect to Bluetooth devices)

The KEmul uses the outbound port to connect to Baracoda barcode readers. In order to configure the application, the user will need to find out what port COM number corresponds to the outbound port. The picture below shows the typical settings of the Broadcom stack:



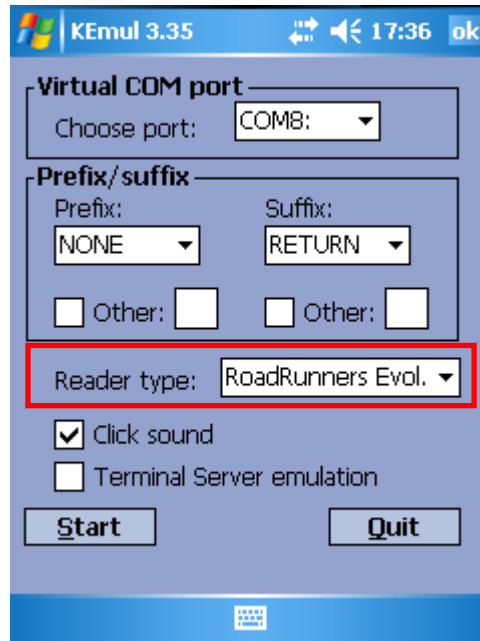
Pic. 1 Outbound port on the Broadcom stack

In this example, the port number in question is COM 8.

1.2 Reader type configuration

When the user has noted the COM port number, they can launch the KEmul application. Next, the reader model should be configured.

The following screenshot shows the application's main window:



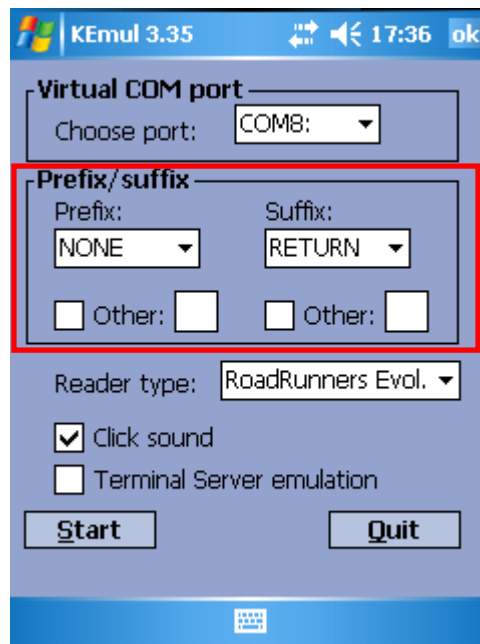
Pic. 2 KEmul main window, reader model configuration

The combo box just below the prefix/suffix settings (explained in the next section) allows the user to set the correct barcode reader model. In the picture above, a RoadRunners Evolution reader is used.

1.3 Prefix/suffix configuration

The KEmul application can add a prefix and suffix to every barcode/RFID tag read by the connected reader. The most common setting is to not use any prefix and Enter as suffix (default values). If the user wants to modify these values according to their needs, they should use the prefix/suffix options marked on the screenshot at the top of the next page.

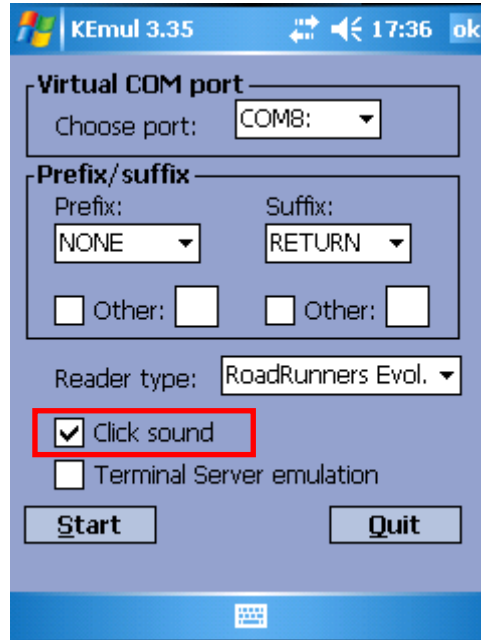
One can choose from either 4 standard prefix/suffix values (NONE, SPACE, TAB, ENTER) or enter their own 1-character values (Other).



Pic. 3 KEmul main window, prefix/suffix configuration

1.4 Click sound configuration

Most users will find it useful if the KEmul emits a click sound every time it sends keystrokes to the active application window. This option can be configured with the “Click sound” checkbox and is active by default (see screenshot below):

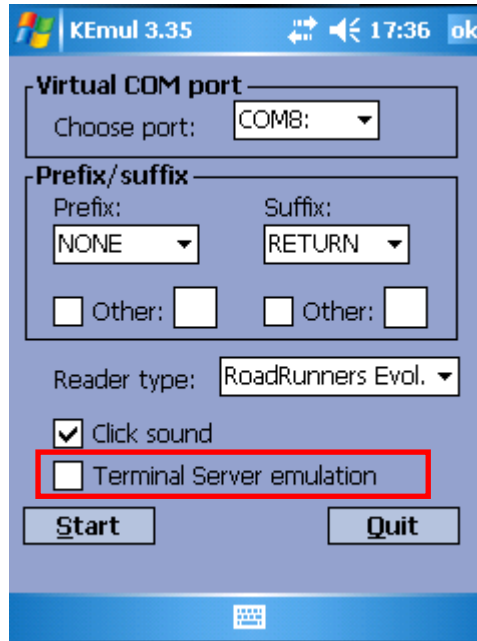


Pic. 4 KEmul main window, click sound configuration

When this option is deactivated, the KEmul will not generate any sound.

1.5 Terminal Services configuration

In the case where the PDA running KEmul has a remote session on a PC, the default keyboard emulation will not work with PC applications. Because of that, Baracoda has provided an option to set the emulation into a “Terminal Services” mode. When the corresponding checkbox is checked, KEmul will emulate keyboard keys in such a way that they are available for programs on the remote terminal:



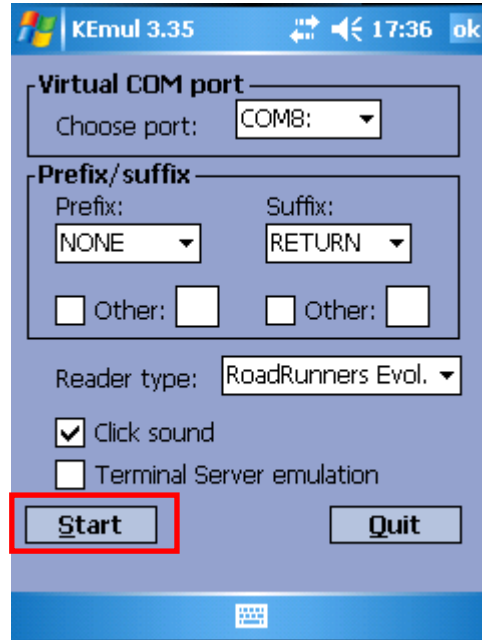
Pic. 5 KEmul main window, Terminal Services configuration

Due to problems with different keyboard layouts (which depend on the OS language), currently this mode can emulate only the following keys:

- A-Z
- a-z
- 0-9
- Space, Return, Tab, Backspace
- ; (semicolon), = (equal), , (comma), - (dash), . (dot), / (slash), ` (back quote), [(left bracket),] (right bracket), \ (backslash), ' (apostrophe)

2. Running KEmul

When the user has completed the configuration of the KEmul application according to their needs, they can connect the barcode reader by pressing the Start button at the bottom of the KEmul window:



Pic. 5 Connecting the barcode reader

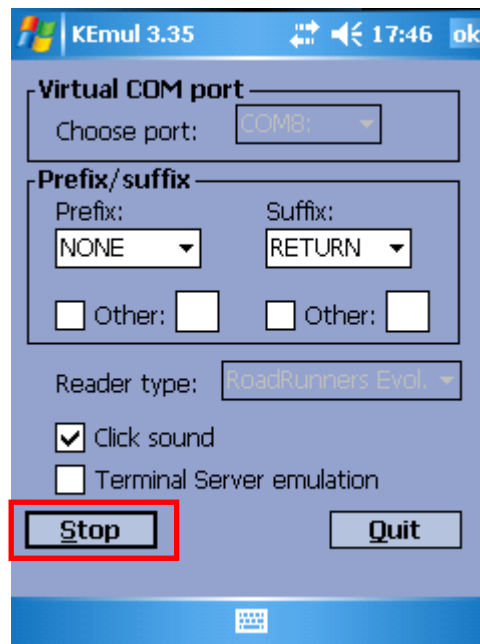
This will launch a Bluetooth discovery and then a connection (the actual shown messages and windows depend on the Bluetooth stack installed on the PDA). Moreover, the KEmul window will be hidden with an icon available on the taskbar:



Pic. 6 KEmul taskbar icon

As long as the barcode reader is connected, every scanned barcode will be transformed by the KEmul application into keyboard strokes.

If the user wants to disconnect the current reader and connect another one without leaving the application, they can do so by first pressing the Stop button (see screenshot below) and then click the Start button to connect a new reader.



Pic. 6 Disconnecting the current barcode reader

The application can be exited either by using the Quit button on the main window or the Exit option from the taskbar icon menu (if the main window is hidden).