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**microSensys**

## **RFID tray application**

for Serial, USB, CompactFlash and Bluetooth™  
interfaces connected to Windows™ PC devices

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## Product description

### Introduction

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RFID tray application for PC is an easy to use tool based on MICROSENSYS interfaces for integration of different transponder systems into existing software environments.

The tool is running in the background of your Windows™ system and places the UID and/or free defined ASCII data read by the interface to the present location of the cursor on the desktop. Therefore no modification of application software is required to integrate RFID functionality into the whole process.

Tray application is available for both 125kHz and 13.56MHz RFID interfaces. Please note, that you need to have one software license for each installed device.

### Supported hardware

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RFID tray application is a very hardware orientated tool running on most PC devices with the following parameters:

CPU: Intel Pentium compatible

OS: Windows™ 98, 2000, NT4.0, XP, Vista and Windows™ 7

Supported RFID-Interfaces: PEN-USB, PEN-232, iID® PEN BT  
iID® Pocket mini, iID® Pocket smart  
iID® Desktop Reader, iID® Desktop smart, M30 Head,  
CFC Reader 125 kHz/13.56 MHz

# Functional description

## Software installation

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Before installing the tool to your PC please install required RFID hardware drivers according the hardware documentation.

Now the following steps are required for installing the tool:

- Select the CD-ROM drive of your host device
- Run the setup program in the folder 'Install\PC\_WIN32'
- Follow the instructions of the setup program
  
- Note, that after installation and configuration it could be recommendable, to select the 'Autostart' folder as program group, so the application starts up automatically.

Now the tool can be started up by selecting the entry in the start menu, an application icon should appear in the notification area of your PC. A multiple start of the tool is disabled by the software itself.

Hardware and software settings are described in the chapter below.

## Software configuration and execution

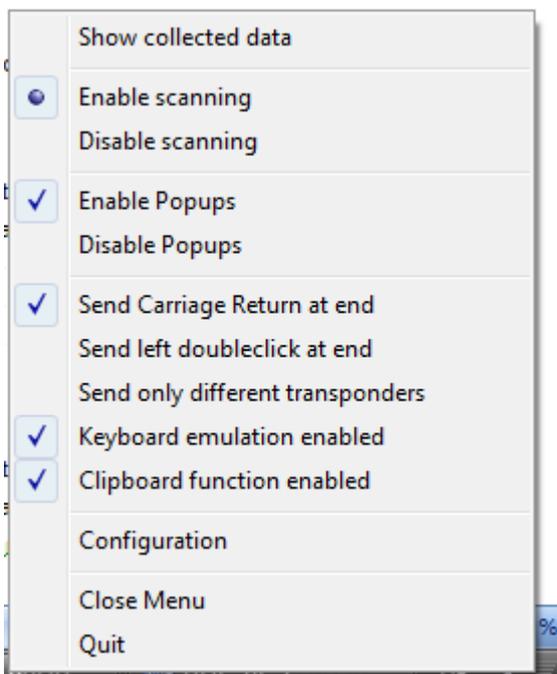
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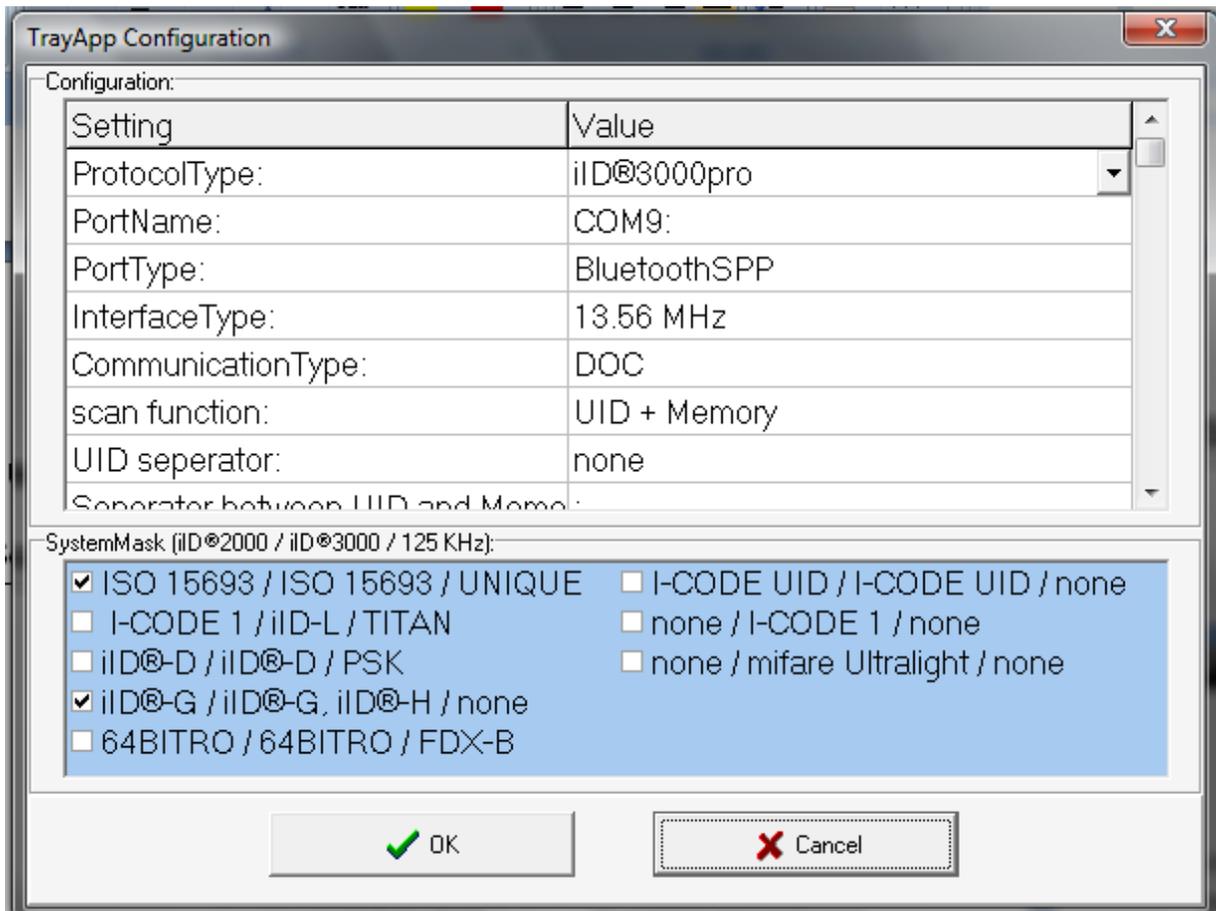
After successful installation you can start up the software using the start menu item “MICROSENSYS RFID TrayApplication v2.9” .

After starting up the software a yellow, grey or red tray icon should appear in your PC task bar.

When running the software please configure the software behaviour regarding your needs as described in the following chapter.



Please right click the tray icon, a popup menu should appear. Please select the “Configuration” dialog at first.



The first part of this dialog contains information about the hardware interface, such as communication protocol, hardware port, interface type and communication type (this should be DOC, when net using iID Pocket mini in MPC mode).

Additionally you can enable/disable the tag systems the software is searching for within the group box "SystemMask".

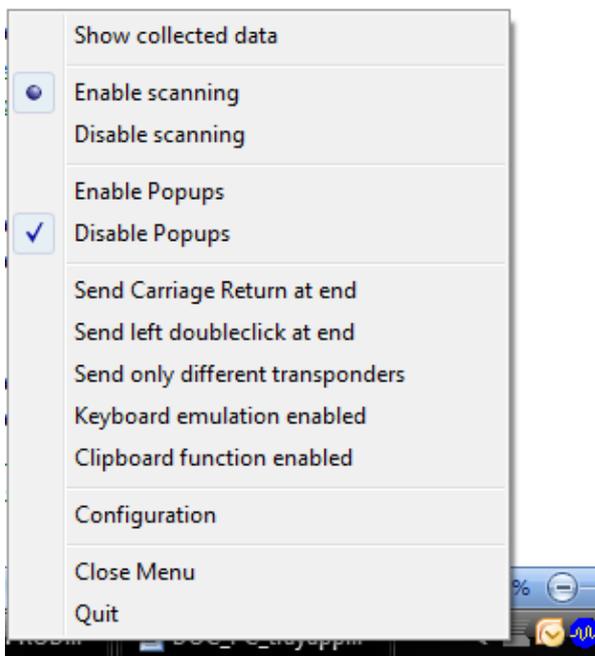
**Prior continuing the tray application, please configure these parameters properly. For more information about software settings see actual API and hardware documentation.**

The following options define the scanning and data handling behaviour as described in the table below:

Setting name	Remark
Scan function	- Defines the scan of UID only, data only or UID plus memory (reading of data requires the correct setting of "Read From byte" + "Read length")
UID separator	- Defines the separator character between the ASCII coded hex bytes of the transponder UID
Separator between UID and memory	- Defines the separator character between output of the transponder UID and TAG memory (if both selected in Scan function)
Read from byte	- Defines the memory offset to start reading from the transponder
Read length	- Defines the number of bytes / characters to read from the transponder
DelayRepeatScan	- Defines the time interval (msec) between several scans – please note, that this setting will influence the power consumption of your system
Automatic place first MPC dataset	- When working with an MPC enabled device, this option will read and place the first dataset of interface memory to the cursor position

Setting name	Remark
DriverTimeout	- Define the timeout for one scan / read operation – required, when reading large transponder area or multiple TAG systems
MPC data set place by hotkey	- When working with an MPC enabled device, this option will define the hotkey to read and place the next dataset of interface memory to the cursor position

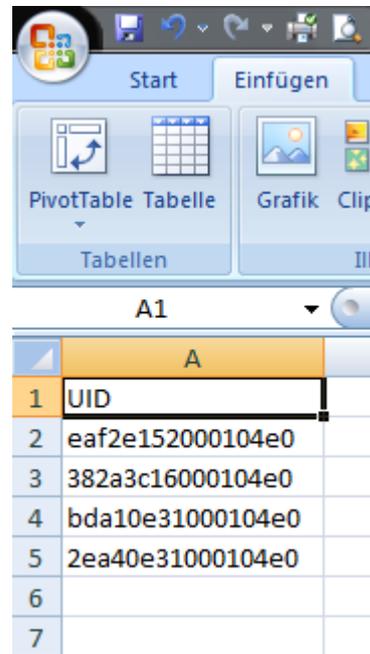
When your main configuration is complete, please close the configuration dialog clicking “Okay”. If a connection between PC and interface is established, the tray icon should appear in yellow color.



There are additional settings, which can be modified using the Popup menu right clicking the tray icon:

Menu item name	Remark
Show collected data	<ul style="list-style-type: none"> <li>- Opens a window with a list of collected data during the program session</li> <li>- This window will be filled independent form the settings “Keyboard emulation enabled” and “Clipboard function enabled”</li> <li>- The same window will appear when double clicking the tray icon</li> </ul>
Enable scanning / Disable scanning	<ul style="list-style-type: none"> <li>- Enable / disable the interface scan function</li> </ul>
Send Carriage Return at end	<ul style="list-style-type: none"> <li>- Enabling this setting will place a &lt;CR&gt; to the end of the keyboard emulation</li> </ul>
Send left doubleclick at end	<ul style="list-style-type: none"> <li>- Enabling this setting will place a double-click of left mouse key to the end of the keyboard emulation</li> </ul>
Send only different transponders	<ul style="list-style-type: none"> <li>- Enable / disable a filter for avoiding output of one and the same TAG UID / data</li> </ul>
Keyboard emulation enabled	<ul style="list-style-type: none"> <li>- Enable / disable the keyboard output function</li> </ul>
Clipboard function enabled	<ul style="list-style-type: none"> <li>- Enable / disable the clipboard function</li> </ul>
Configuration	<ul style="list-style-type: none"> <li>- Open the configuration dialog box described before</li> </ul>
Close menu	<ul style="list-style-type: none"> <li>- Close this popup menu</li> </ul>
Quit	<ul style="list-style-type: none"> <li>- Close the software and remove the process from memory</li> </ul>

If the tool is working in the background the data received by MICROSENSYS RFID interface is placed to the present location of the cursor on the desktop.



So you can use the tool for easy data-collection and there is need to modify the application software – the data is inserted into any active text-field, if application software does not block this. Multiple scanings of the same code can be blocked by the tool.

If the device was shut down or the RFID interface was removed from the PC, tray application automatically tries to re-connect the interface. Depending on interface type and host device this may take some seconds.

## Appendix

### Problem solving and technical support

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Following you can find some error messages and possible causes.

<b>Error</b>	<b>Possible cause</b>
<b>,Grey icon' – no interface communication</b>	Is the RFID interface properly connected to the PC? Do other applications share the interface port? Please try again after Soft-Reset of the device or modify settings in the configuration file
<b>tray application loses communication to RFID-interface</b>	Does the device automatically switch to Power-Safe Mode? Please deactivate modes, which disable the power supply of expansion slot.
<b>code is not inserted into active field</b>	Device may not support the functions needed for inserting the code. "Keyboard emulation enabled" is de-activated.
<b>No upper-case characters are inserted into field</b>	On some devices / OS releases difference between uppercase and lowercase characters is not supported.

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