

USER MANUAL

HF RFID Wedge Application



Document updates

Version	Modification	Author	Date
DPD A00583 A00	Initial document	JM COLLOMBON	05 July 2013
DPD A00583 A01	Merge WAP4 and EP10 devices	JM COLLOMBON	27 Nov 2014
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Writers

Name	Position	Company
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Terminology

RFID	Radio Frequency IDentification
HF	High Frequency
SAM	Secure Authentication Module card, a small smart card used to hold cryptographic keys

Referenced documents

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1. INTRODUCTION

1.1. Scope

This manual is a handbook for the installation and usage of RFID HF Wedge Application on Zebra Technologies Workabout Pro 4 (WAP4) and EP10 devices.

Wedge application allows using the RFID like a codebar scanner. The data reads from the RFID tag is sent to the keyboard buffer and written to the active window.



The first step is to install the RFID driver and demo app. Then you would be able to use the WAP4 HF wedge application.

The source code is available on the same ZIP package

1.2. RFID standards and tags supported

1.2.1. RFID Standards

MIFARE® Classic, ISO14443 A; ISO14443 B; ISO15693; Felica; NFC IP-1 passive initiator mode;

1.2.2. RFID Tags

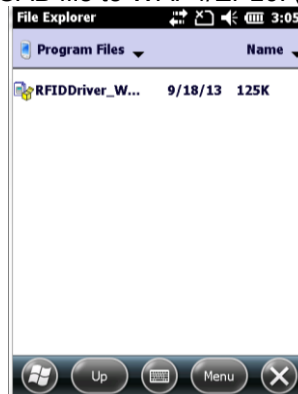
MIFARE® Standard, MIFARE® Ultralight, MIFARE® Desfire, MIFARE® Plus, MIFARE® Plus S, MIFARE® Plus SL3, NXP SmartMx, GTML, 14443A Controller, 14443B Controller, ICODE SLI, ICODE SLI-S, ICODE SLI-L, ICODE UID, MyD 10p, MyD 02p, MyD 10S, MyD 01P, SLE66R35, SLE66R32P, SLE66CLX360, SLE66CLX800, Felica and more

2. GETTING STARTED

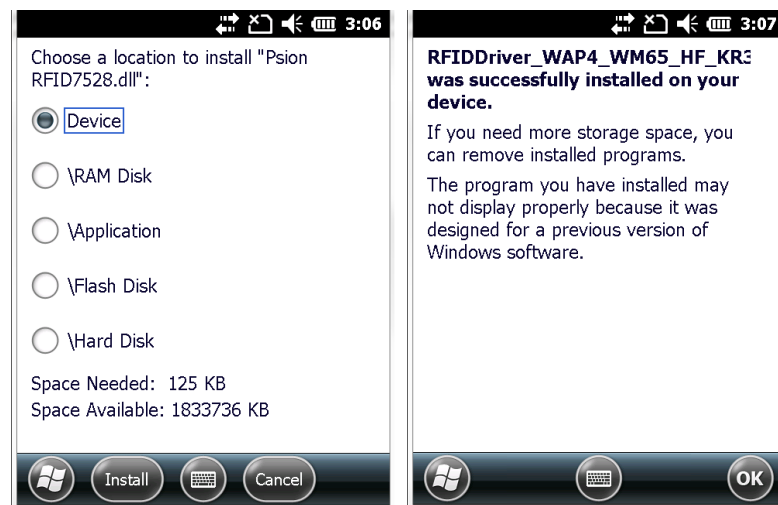
2.1. RFID driver installation

RFID Driver installation is mandatory. The driver is provided into the ZIP package as CAB file.

The first step is to copy the RFID Driver CAB file to WAP4/EP10. (by activesync, usb stick, ..)



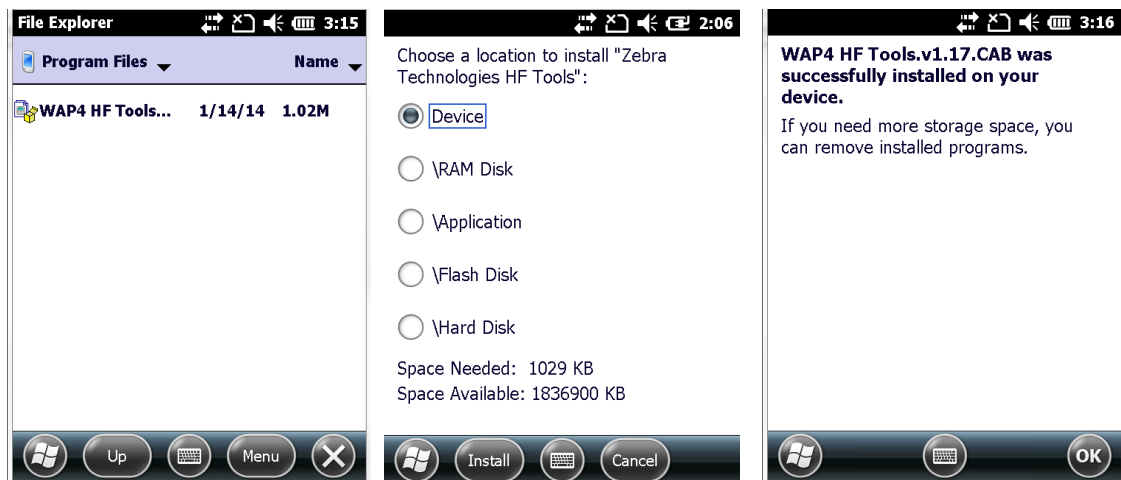
Then by double clicking on the CAB file, you should be able to install it.



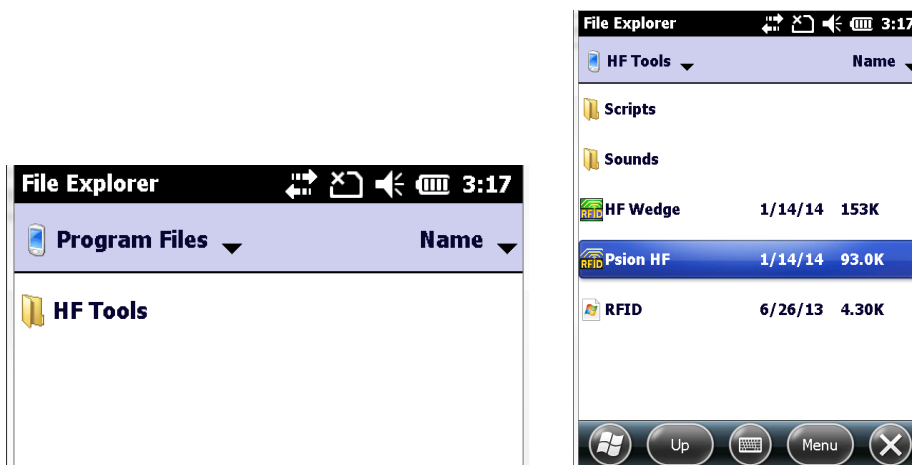
Note: An unsuccessful installation occurs when the WAP4/EP10 device can't dialog with the RFID reader. The issue may result because the RFID reader is not mounted into the Workabout Pro 4/EP10 OR the RFID reader is badly connected.

2.2. RFID wedge installation

Install HF Tools by double clicking on the CAB file.



You will see a new folder on \Program Files called **WAP4 HF Tools**



3. WAP4 HF WEDGE

3.1. Launching

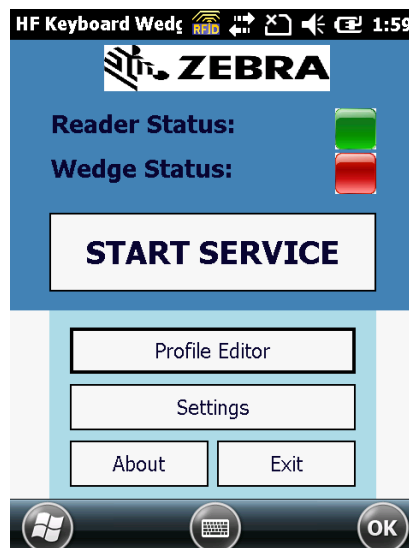
Go to Program, Start **WAP4 HF Wedge**



3.2. Functionalities

3.2.1. Overview

The main form gives access to all the functionalities



Start Service: starts /stops the RFID keyboard wedge service

Profile Editor: adds/edits/creates scan profile – defines the scan trigger and the related scan actions

Settings: defines the scan behaviour

About: returns application information

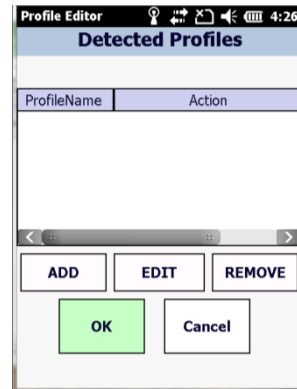
3.2.2. Profile Editor

These forms allow configuring the scan profile according to your needs.

You will be able to define the scan trigger, the scan action (read ID or custom), the prefix and suffix.

ADD/EDIT/REMOVE buttons: manages the scan profiles.

Click on ADD button to create your scan profile



Add Profile

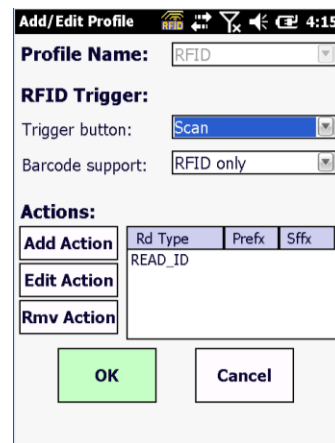
Select a profile name

Define a trigger button, they can be:

- L. Side Scan
- R.Side Scan
- Scan
- Grip Trigger

Define how to support barcode.

- RFID + Barcode
- RFID only



Add Action

Add action link to the profile

Define Read Type:

- Read ID
- Custom

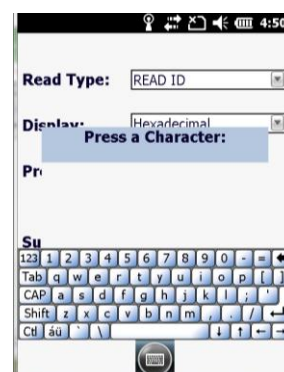
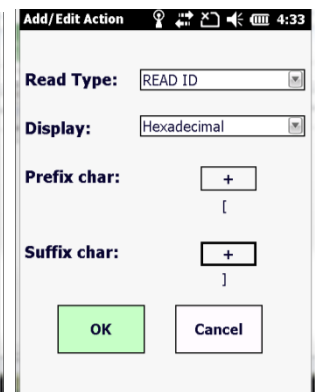
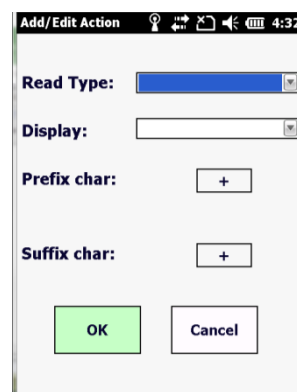
Note: Custom is not implemented by default, a software modification has to be done according to your needs. The source code of this application is available.

Define Display:

- Hexadecimal
- Decimal

It returns how the data has to be formatted

(optional) Define Prefix and Suffix Char



Validate the profile by clicking on OK buttons

3.2.3. Settings

This form defines the scan behaviour.

Display:

- Scan Result: displays popup information with data read
- Scan Result Time: defines the delay of the popup
- Scan Indicator: displays popup information when the trigger is pressed
- Delay Before Sending: defines how long the application has to wait before sending the data on keyboard buffer.

Sound:

- Bad Scan Beep: plays or not a sound on error
- Good Scan Beep: plays or not a sound on success

Connection Setting:

- Automatically Connect: defines if the service is started on running OS

3.2.4. About

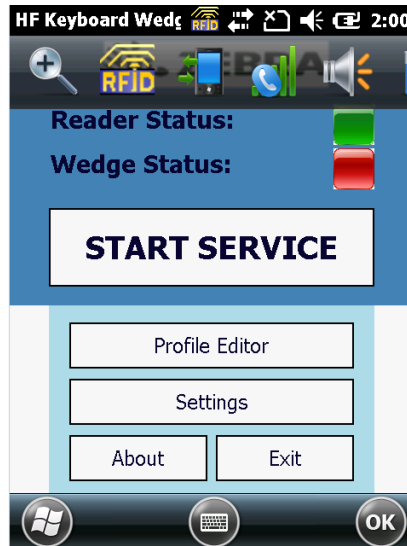
This form displays software application version, firmware version and rfid driver version.

Save button: saves in csv-format the version information

3.3. Usage

3.3.1. Start Service

When the profile is defined, press Start Service



When the service is activated, a balloon is visible during 2 seconds and the notify icon changed



3.3.2. Scan Event

By pressing the trigger button, the profile is executed.

Example of no tag in the field



Example of tag ID reading



3.3.3. Stop or modify service

Click on notification icon, to get back to the main form



Finally press Stop Service to stop it.
Or EXIT to quit the keyboard wedge application