

	USER MANUAL [UHF] CAEN Tools	Author: JM. COLLOMBON File: DPD A00356 A00.doc Date: 1/7/08 Page: 1 / 20 Ref: DPD A00356 A00
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Revision	Date	Prepared by	Verify by	Validated by
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PSION TEKLOGIX

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1. SCOPE OF THE DOCUMENT

This document describes how to install, configure and use the CAEN Demo and CAEN Wedge.

2. TERMINOLOGY

3. UPDATING OF THE DOCUMENT

Version	Evolutions	Author	Date
A00	Creation	JM. COLLOMBON	04/01/08

4. ENVIRONMENT

4.1. Documents and reference elements

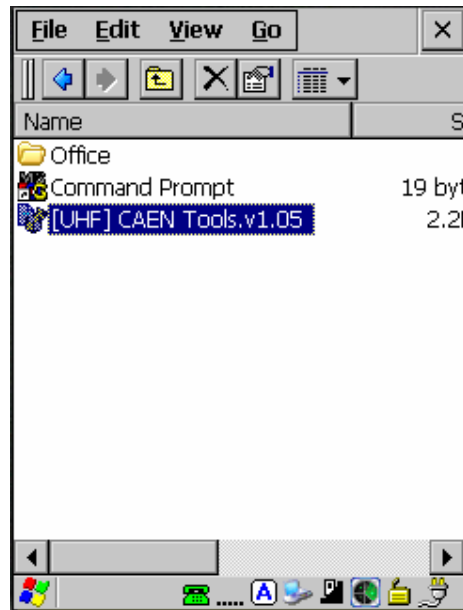
Document	Reference	Version	Date

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5. INSTALLATION

- Copy the installation CAB file named “[UHF] CAEN Tools.vX.XX.CAB” on the WAP. Refer to User Manuel for details on how to copy file from PC to WAP (ActiveSync, Memory Card, ...).

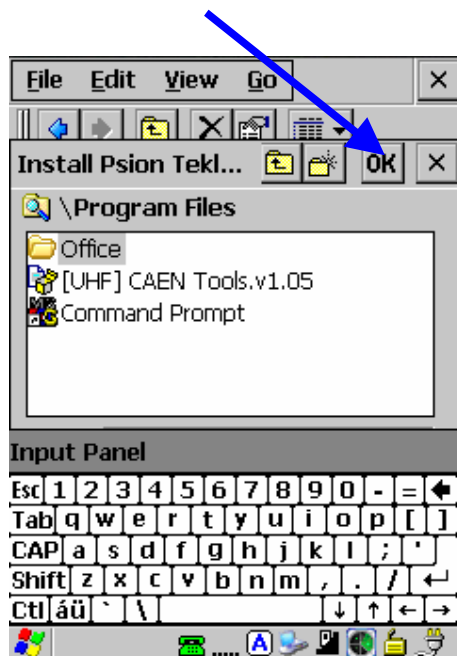
Note: The CAB file will be automatically erased if file settings are not set to read-only before executing the file.



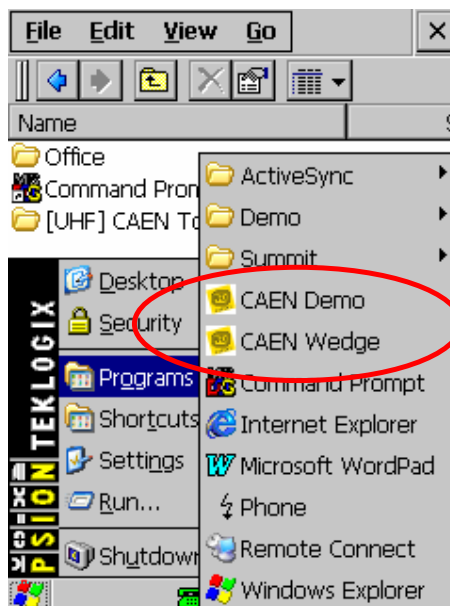
- Double tap on the file to start installation.

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- Select OK.



- After installation, CAEN Demo and CAEN Wedge are available in Programs.

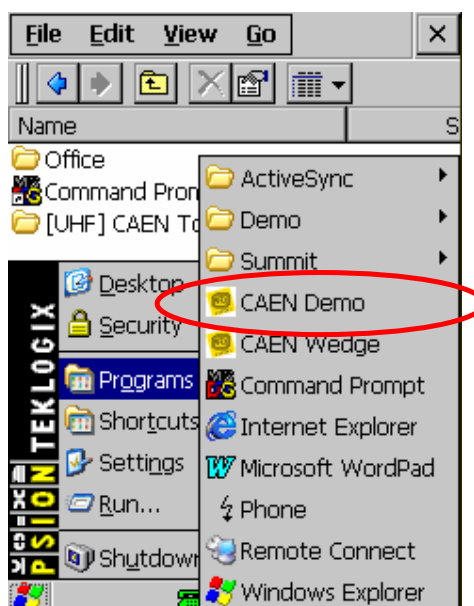


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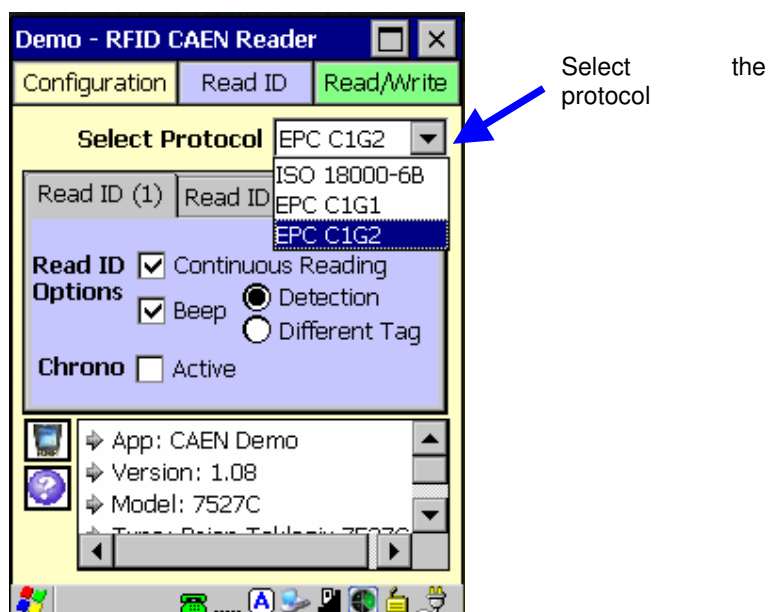
6. CAEN DEMO

6.1. Configuration

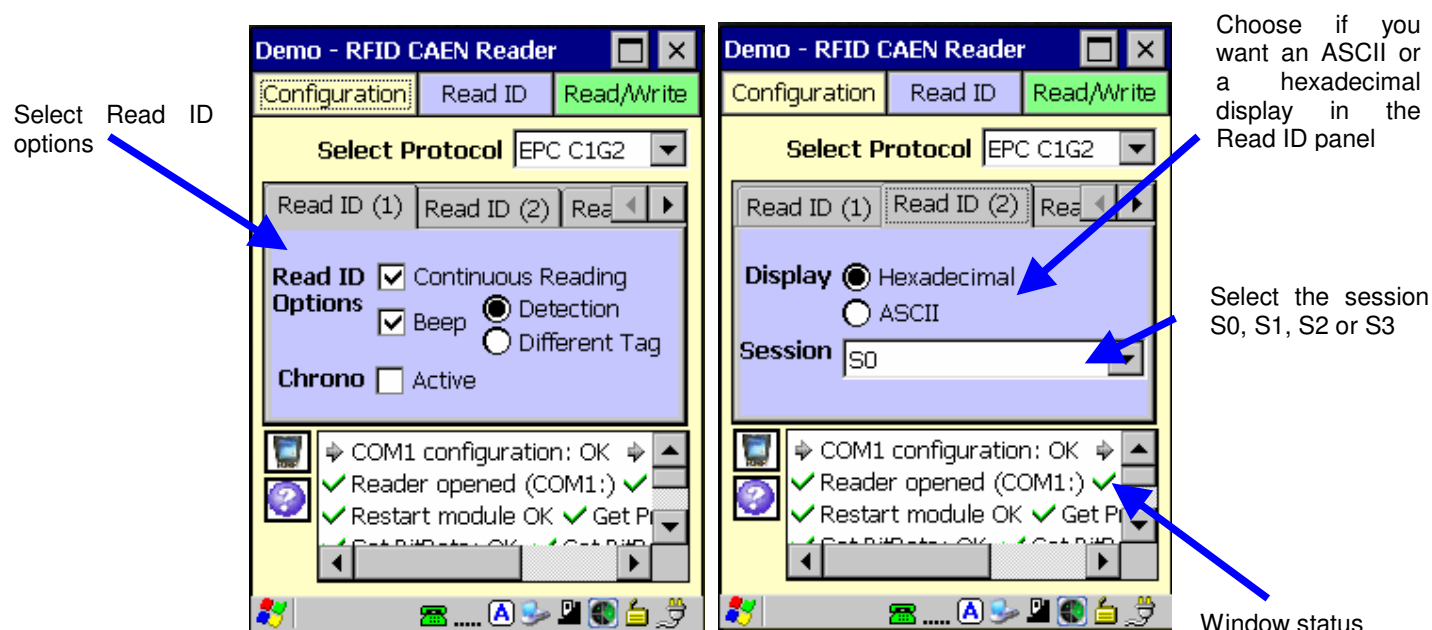
- After installation, select "CAEN Demo" in Programs.



- To configure CAEN Demo, select the configuration tab.



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- Session:** the four identification flags each belong to one identification session. After a tag has been identified, it changes the status of the identification flag of the session it was just identified in. For example if the flag is reset and the tag is identified, the flag gets set or if the flag is set and the tag is identified the tag is reset. The four session flags have different persistence times if the tag loses power for a longer time the session flag gets reset.

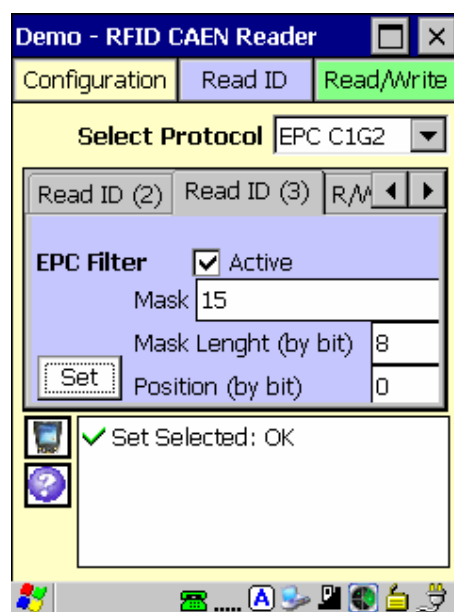
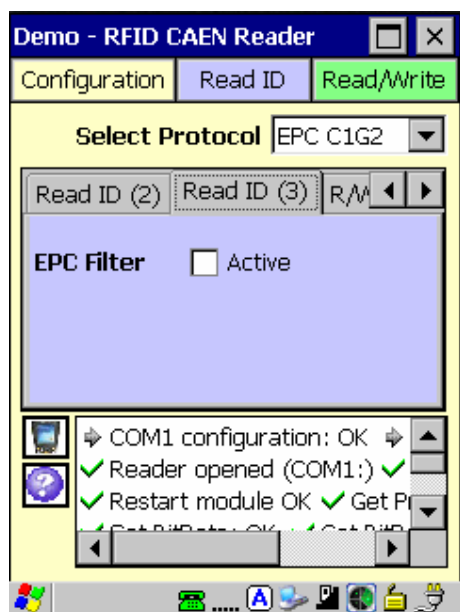
Session 0 Flag S0: Tag powered: indefinite
Tag not powered: 0

Session 1 Flag S1: Tag powered: 500 ms < persistence time < 5 s
Tag not powered: 500 ms < persistence time < 5 s

Session 2 Flag S2: Tag powered: indefinite
Tag not powered: 2 s < persistence time

Session 3 Flag S3: Tag powered: indefinite
Tag not powered: 2 s < persistence time

- **EPC Filter:** Check active to use the EPC Filter in Read ID Panel.
 - Mask: Bytes array in Hexadecimal
 - Mask Length (bit): Length of bit and not byte taken into account
 - Position (bit): Position to start the Mask Length

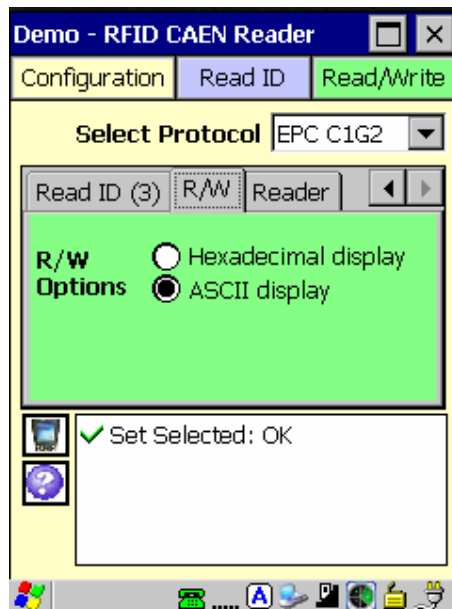


For example: EPC = "FF3804714277360000093188", if we active the EPC filter where Mask = F380, Mask length = 16 (16 bits = 2 bytes) and Position = 4 (1/2 byte). When Read ID is launched all the tags with the following EPC code "x**F380**xxxxxxxxxxxxxxxxxxxx" will be returned.

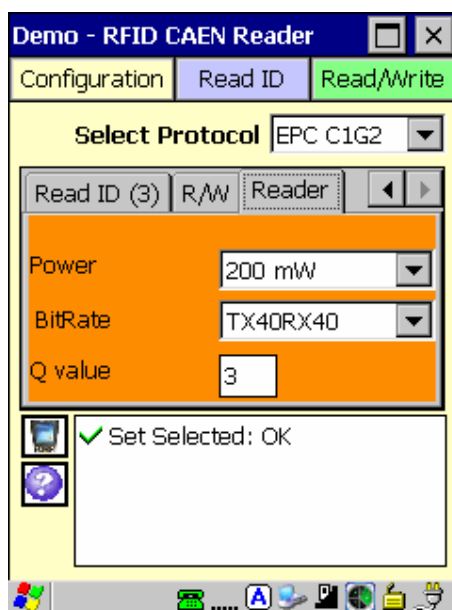


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- R/W Options: Display the data in Read/Write panel in ASCII or Hexadecimal

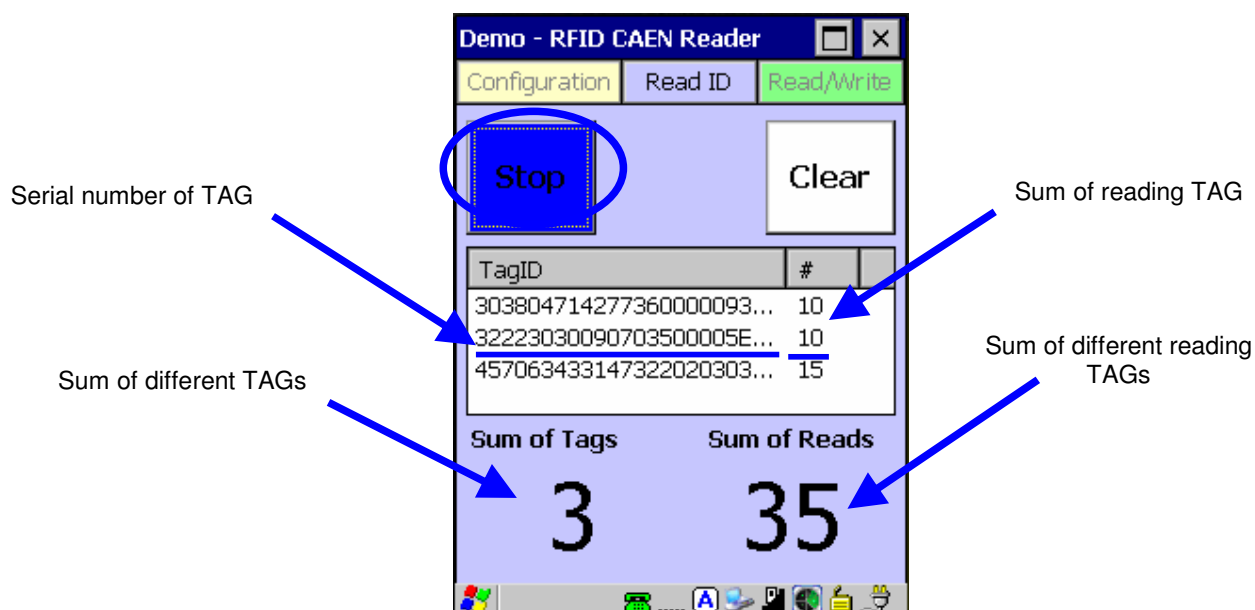
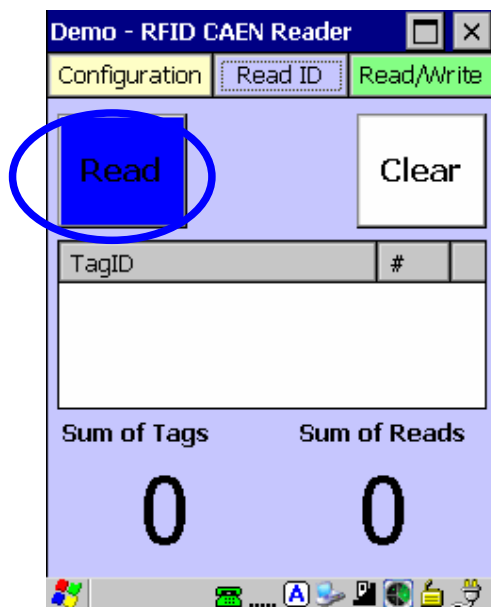


- Power: defines the power provided by the reader (if the reader used is a 50mW, the option is disabled)
- Q value: defines the minimum value of Q which is the number of time slots per round during anticollision. The number of time slots is (2^Q)



6.2. Read ID

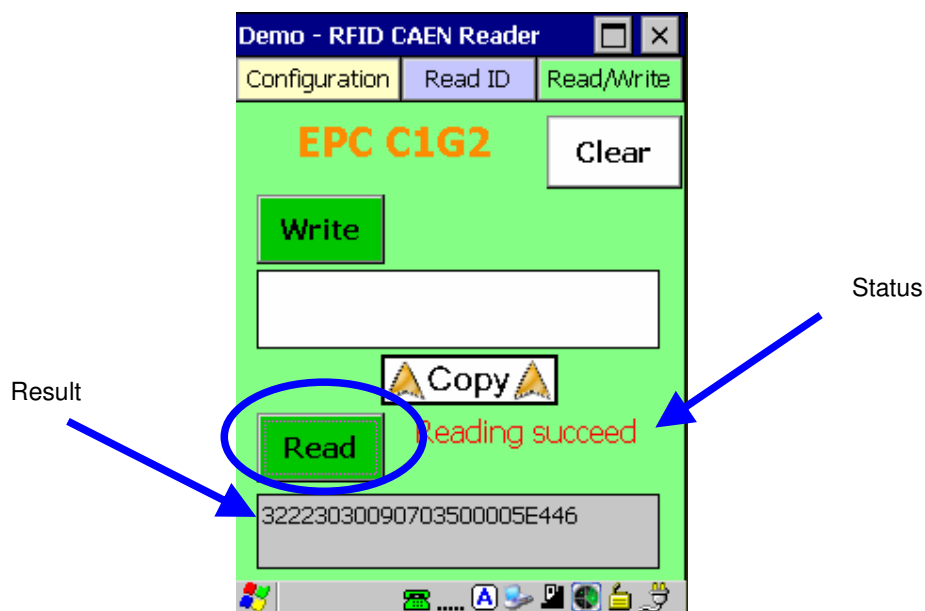
- To read the ID of a TAG, select Read tab and press the button Read. Put the TAG in front of the antenna (on the side of the back plate).



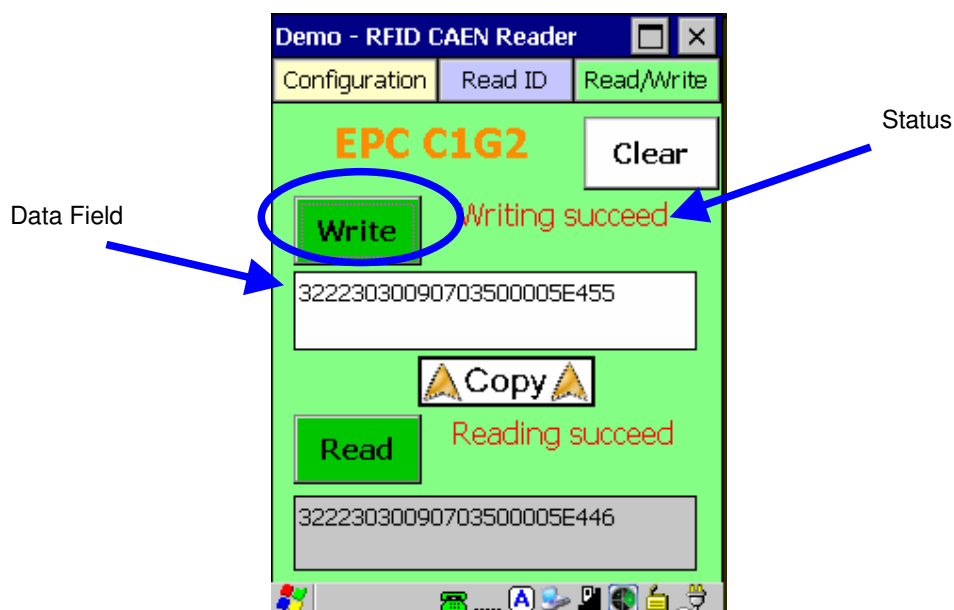
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6.3. Read and Write memory

- To read the memory of a TAG. Select Read/Write tab, put the TAG in front of the antenna (on the side of the back plate) and press the button Read.



- To write the memory of a TAG. Select Read/Write tab, put the TAG in front of the antenna (on the side of the back plate) capture your data in the Data field and press the button write.

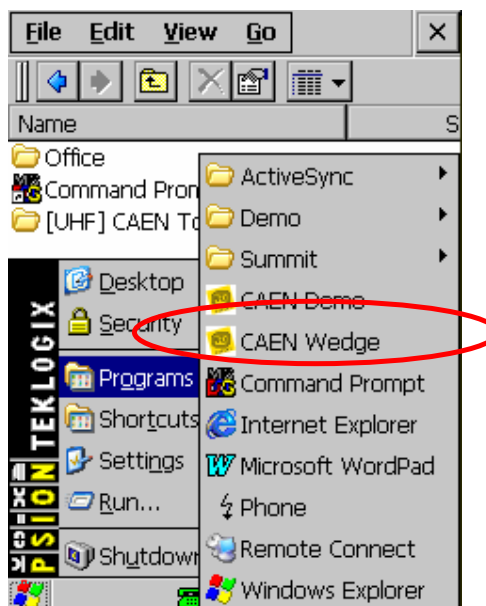


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7. CAEN WEDGE

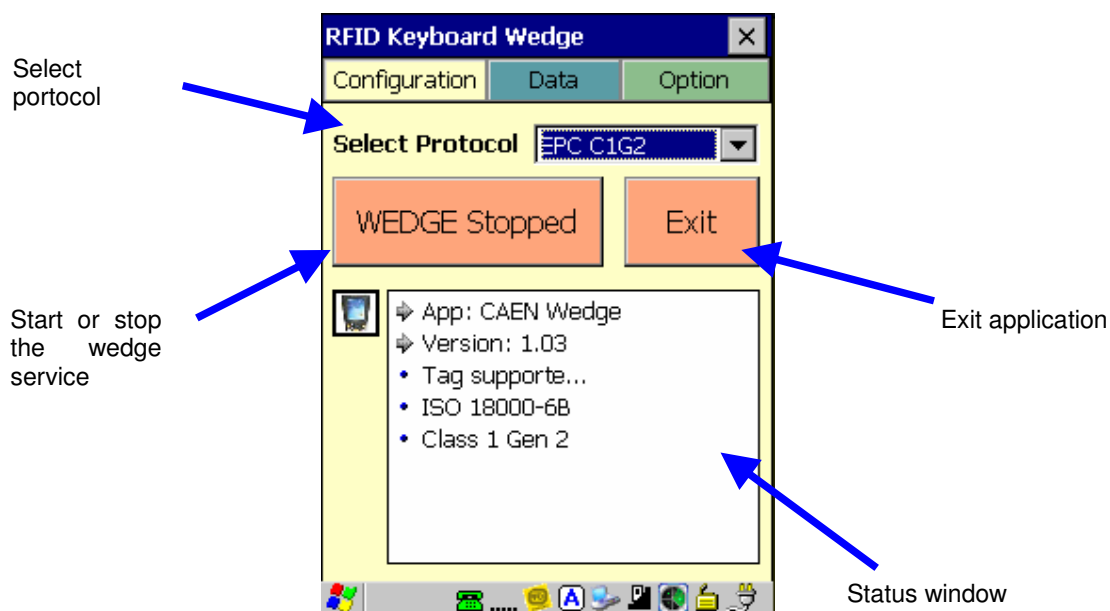
7.1. Configuration

- After installation, select “CAEN Wedge” in Programs.



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- To configure CAEN Wedge, select the configuration tab.

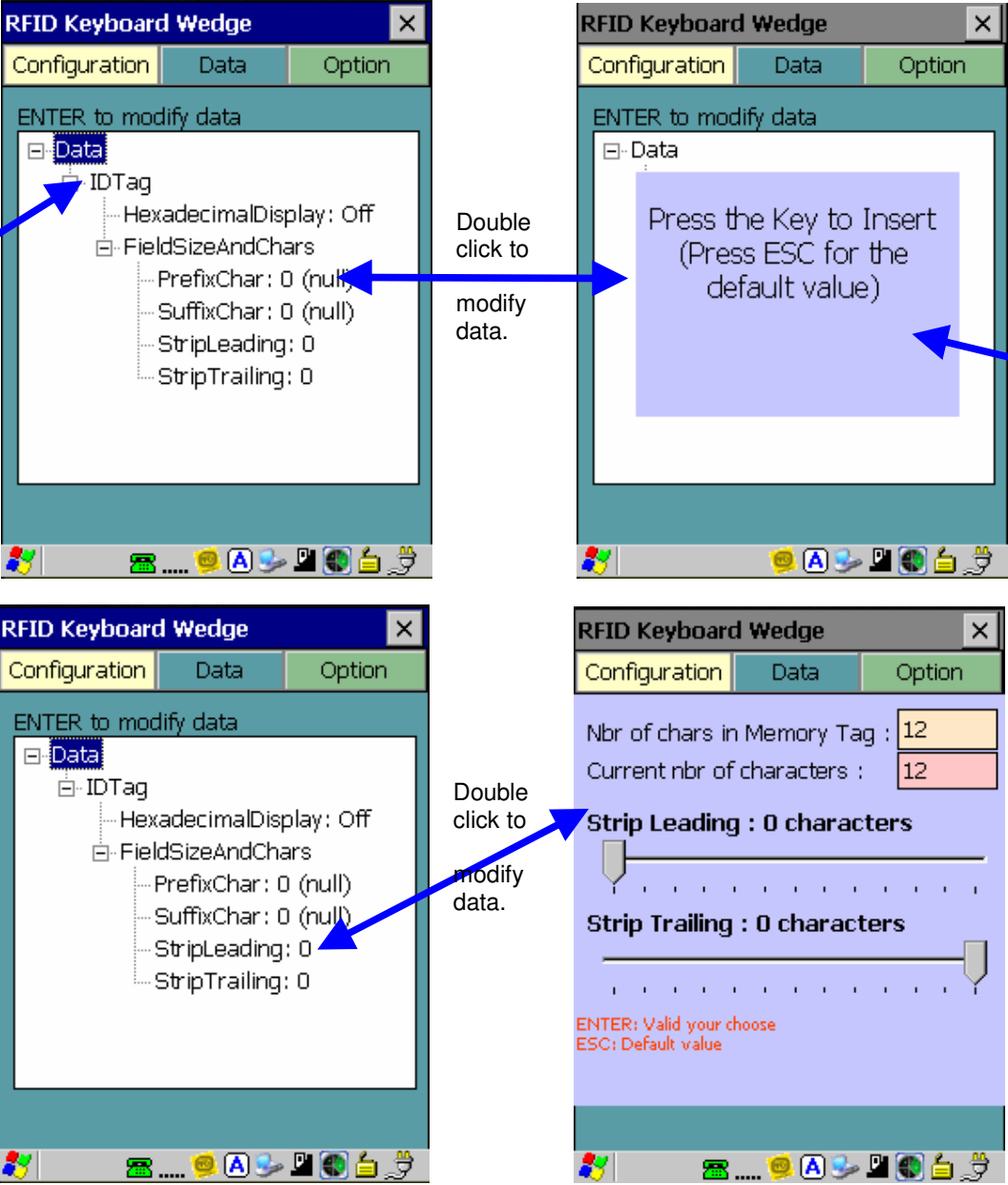


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- To configure data, select the Data tab.

Use this configurator to set data management at read time. Tag ID can be customized to your needs:

- “Prefix” or “Suffix”: Set prefix and/or suffix to Tag ID and/or Tag Data
- “StripLeading” or “StripTrailing”: Resize Tag ID and/or Tag Data with strip leading and/or strip trailing.
- “HexadecimalDisplay”: Display the ID Tag in ASCII or Hexadecimal if the option is true

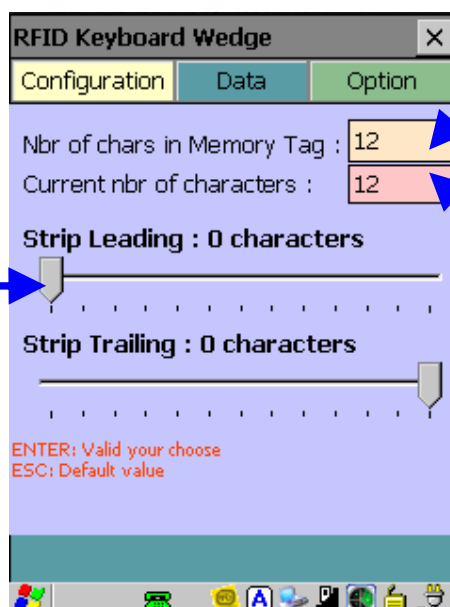


The figure illustrates the configuration steps for the Tag ID in the RFID Keyboard Wedge Data tab, shown in four sequential screenshots:

- Initial State:** The **Data** tab is selected. The **IDTag** checkbox is checked. A blue arrow points to it with the text: "Activate or deactivate the posting of the ID Tag."
- Double-click to modify data:** A blue arrow points from the **IDTag** checkbox to a large blue box containing the text: "Press the Key to Insert (Press ESC for the default value)". A blue arrow points to this box with the text: "Press the key that you want."
- Double-click to modify data:** A blue arrow points from the **FieldSizeAndChars** section to the **Strip Leading** and **Strip Trailing** settings. A blue arrow points to these settings with the text: "Double click to modify data."
- Final Configuration:** The **Strip Leading** and **Strip Trailing** settings are shown with sliders. The **Strip Leading** is set to 0 characters and the **Strip Trailing** is set to 0 characters. The text "ENTER: Valid your choose" and "ESC: Default value" is displayed at the bottom.

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With the TrackBar,
modify the number of
characters that you
don't want to post on
the Keyboard Wedge.



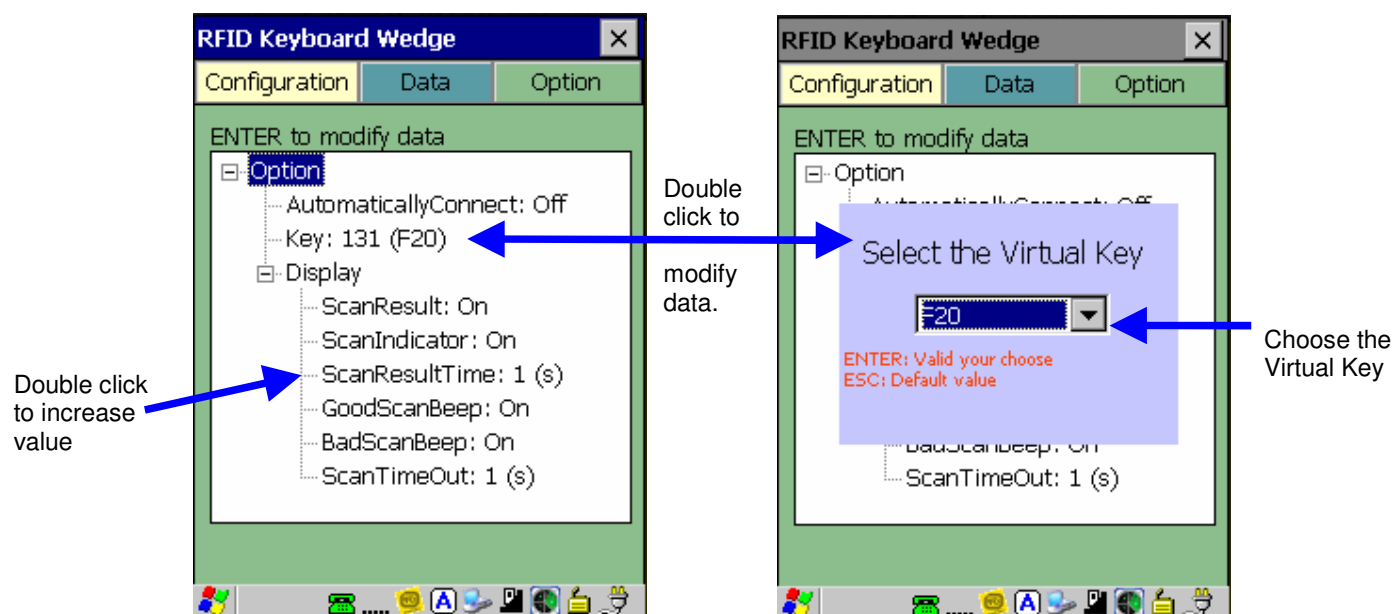
Number of characters
available in the memory
of tag.

Number of chars which
will be actually read

Press ENTER or cross to validate, ESC to cancel.

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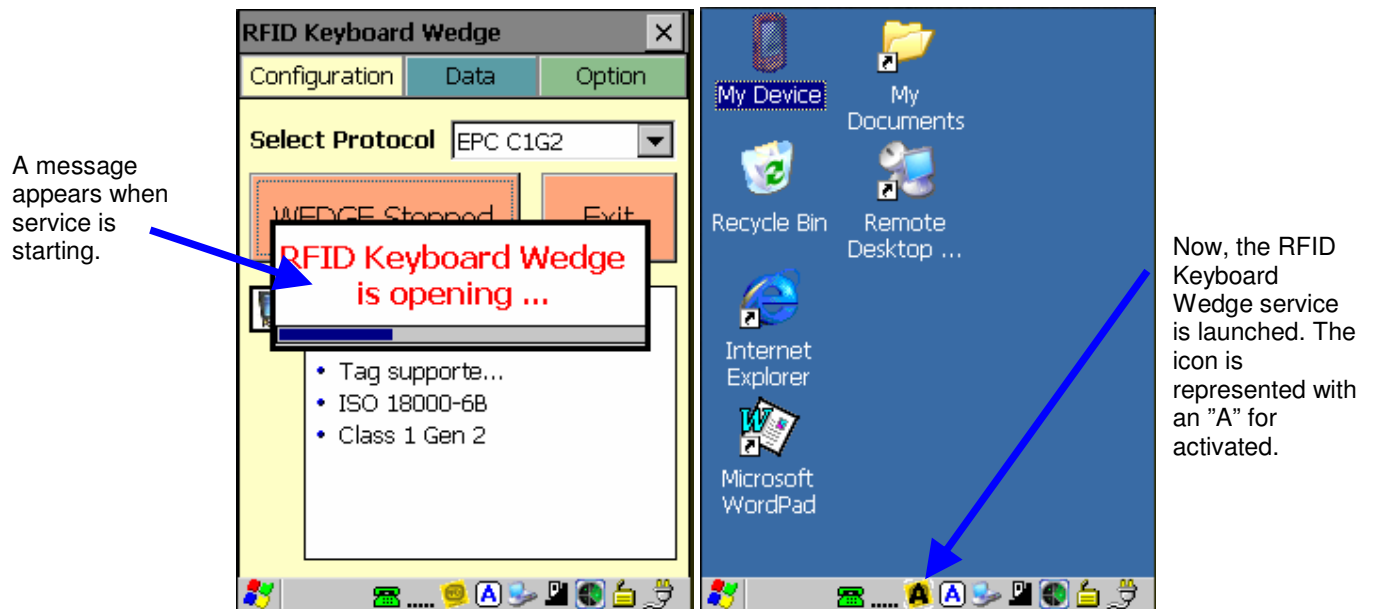
- Under the option tab, the following options are available:
 - “AutomaticallyConnect”: Start RFID Wedge at boot time
 - “Key”: Choose the Virtual Key which triggers the scan
 - “ScanIndicator”: Display scan indicator
 - “ScanTimeOut”: Scan failure timeout
 - “ScanResult”: Display scan result
 - “ScanResultTime”: Time in second for result display
 - “GoodScanBeep”: Activate Beep for a good scan success
 - “BadScanBeep”: Activate Beep for a bad scan failure



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7.2. Start

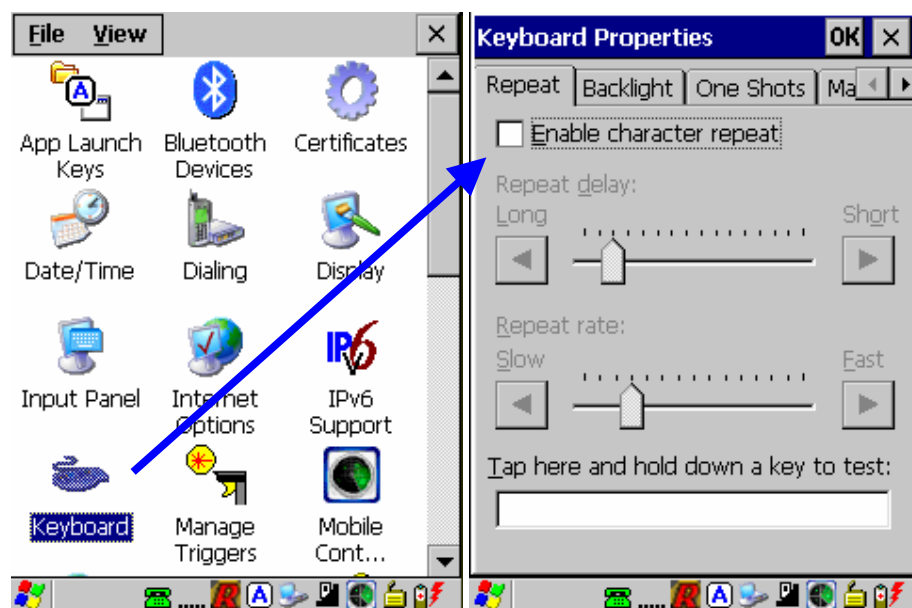
- To start service, click on the "Wedge Stopped" button to start the service on Configuration Panel.



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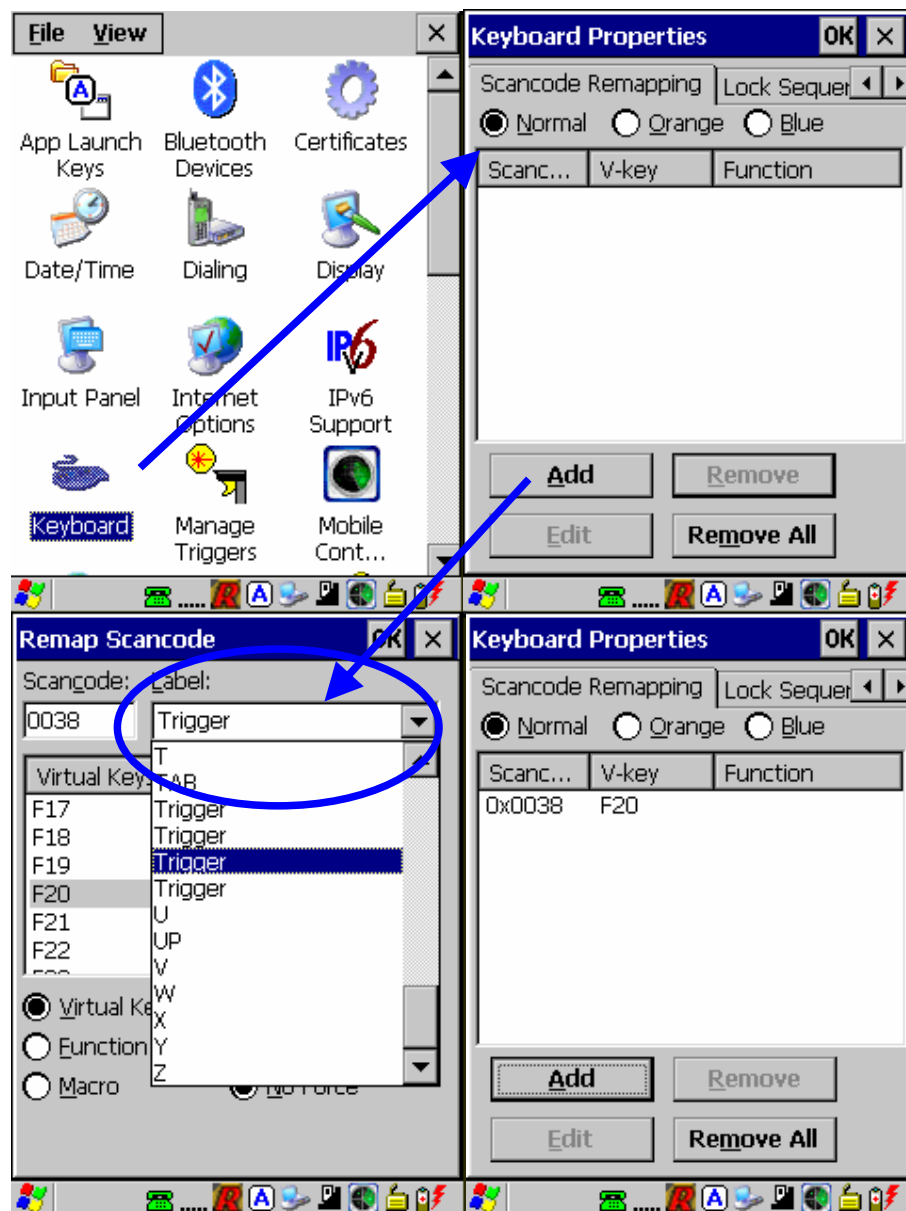
7.3. Character Repeat

- To configure Character Repeat, select "Control Panel"->"Keyboard". Go to the "Repeat" Tab. Disable "Enable character repeat".



7.4. ScanCode remapping

- To configure ScanCode remapping, select "Control Panel"->"Keyboard". Go to the "ScanCode Remapping" Tab. Press "Add". Select your Virtual Key (by default "F20") and the corresponding ScanCode. Select your other Virtual Key (by default "F21") and the corresponding ScanCode. Finally, press "OK" to validate.



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7.5. Scan

- Press on the key defined as "ScanCode". You can open a text editor to check seen results.

