J2 iButton to MSR Emulator

Software Manual

Change history

Version 1.0 Released December 16, 2013

Contents

Overview

The J2 iButton to MSR Emulator software was written to allow the use of the J2 iButton reader for employee login without modify the POS application software that was written for a MSR card login in.

The software when installed causes any reads of an iButton to be output to the keyboard port in a format compatible with the data output from a MSR card.

Software Design

The software monitors the keyboard port and looks constantly for the unique header output by the J2 iButton reader. When detected the software reads the iButton and converts the output to a 9 digit ASCII numeric number with the correct postamble and preamble to emulate a MSR card.
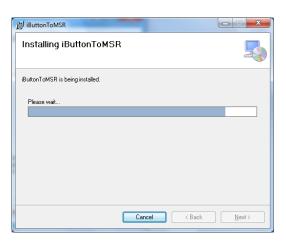
Installation

To install the J2 iButton to MSR Emulator software please download the setup software from the J2 Support web site. The source code can also be downloaded from the web site.

The web sites address is: http://support.j2rs.com/

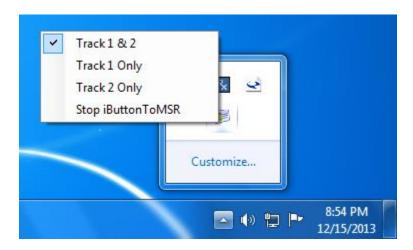Once the software has been downloaded, run Setup to install the J2 iButton to MSR Emulator software.

After the software is installed close the software with the Finish button and reboot the system.

J2 iButton to MSR Emulator

Once the software is installed and the system is rebooted the emulation software will be running. An icon with show in the notification tray when the software is running, as shown below.
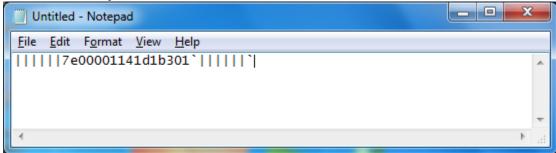

By right clicking of the icon a few options are available. The allow for the iButton to output the serial number data as track 1&2 MSR data, track 1 data or track 2 data. There is also an option to stop the emulator for trouble shooting purposes. The Track selection will be stored in the system registry and retain after a reboot.
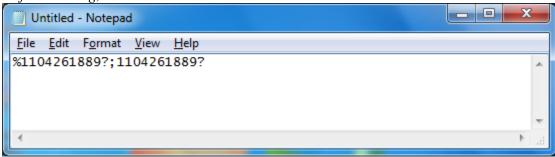

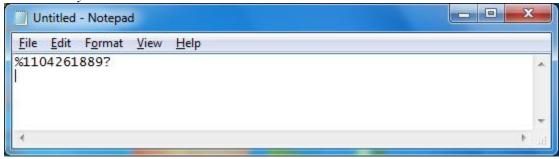Notepad can be used to test the emulator software. Below are the possible outputs.
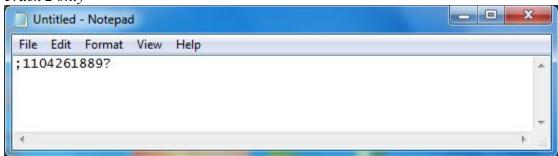
No Emulation software

Default setting, Track 1&2

```
Untitled - Notepad
File  Edit  Format  View  Help
%1104261889?;1104261889?
```

Track 1 only

```
Untitled - Notepad
File  Edit  Format  View  Help
%1104261889?
```

Track 2 only

```
Untitled - Notepad
File  Edit  Format  View  Help
;1104261889?
```

The serial number of the iButton is converted to a 9 digital decimal number. The upper bits of the serial number are stripped off.

If the POS software cannot handle a 9 digit number please contact J2 and a custom version of the emulator software can be made available to fit your needs.

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