

## Instant EPC Hotspot 2.5 - Release Notes

### V02.06.00 September 1<sup>st</sup> 2008

- Added Reader Driver Development Kit functionality – allows Java developers to write and install new RFID reader interfaces for Hotspot. Development Kit available as a separate download on this website.
- Redesigned reader-driver system within Hotspot to allow for plug-in drivers

### V02.05.07 February 15<sup>th</sup> 2008

- Added SICK AG RFI641 ETSI UHF Reader (SIRIT Infinity 510 Rebadge)
- Added Impinj Speedway Reader

### V02.05.06 July 9<sup>th</sup> 2007

- New Licensing Manager that better handles informing the user of their license status. Also allows license to be entered directly from the initial screen.
- New Update Manager - User command will check Integral RFID website for version updates.
- Added Sirit Infinity 167 HF Driver – with support for ISO 15693 HF tags
- Added RF Code Mantis II Reader – with support for Active tags at 303 and 433Mhz

### V02.05.05 June 7<sup>th</sup> 2007

- Update for Microsoft Vista Compatibility. Underlying Java virtual machine updated from 1.4.2 to 1.6.1, with support for Vista. This brings Hotspot up to date and improves graphics performance all round.
- Licensing changed to account for Vista – license files now need to be pasted into a new window under the Help menu. This is because Vista will not let Hotspot write license information to the same place as XP. Consequently we no longer ask the user to save license file to the correct location: the user must now copy and paste the contents of the license file into Hotspot, and Hotspot will write the information to the correct location based on the underlying OS.
- Fixed bug with cut, copy, paste etc... throughout all text entry areas (text fields and text boxes). In previous versions the standard keyboard shortcuts would not work. This is fixed. Ctrl-C, Ctrl-A etc... all work properly.
- Added Omron 740 UHF reader support (this is a rebadged ThingMagic Mercury 4 reader)
- Fixed bug with Sirit Infinity 510 reader and its antenna support: older versions were reporting an incorrect antenna number for tags reader with Sirit reader. This has been fixed.

- Fixed default IP Address for Sirit Infinity 510 reader – new reader instanced will now default to 169.254.1.1
- Added new AutoSize feature to Portal Reader (Tag Grid). Auto Size will change the grid-layout depending on the number of tags on display

**V02.05.04 February 5<sup>th</sup> 2007**

- Added new driver for Omron V750 UHF Reader (supports Gen2 and ISO-180006B tags)
- Added new driver for Escort Memory Systems UHF-UN1 multi-protocol UHF reader
- Added new Hotspot visualization option – Discrete Tag Points. This is for users who want to test the readability of tags at specific locations on a case rather than across the entire face. At any time the two visualization mode can be switched by right clicking the 3D case model and choosing either ‘Hotspot Data (Discrete Points)’ or ‘Hotspot Data (Blended Colormap)’.

When discrete points are displayed, a color-coded tag is displayed at the point the test measurement was taken, along with the value of the test measurement. This value ranges from 0-100, representing tag readability (0-tag does not read / red color, 100-tag reads very well, green color)

Discrete Hotspot Mapping at user definable test points



Blended Hotspot Mapping across entire face.

- Cleaned up Pallet Stacking mechanism in Pallet Stacker window. Stacking cursor can be moved around by typing directly into the text areas at the top of the Pallet Stacker window. If mistakes are made when stacking a pallet, the user can now go back to any previous point in the stacking process by typing in a layer number or case number into the text areas on the screen.

**V02.05.03 October 25<sup>th</sup> 2006**

- Changed code to address a bug fix from Sirit with their Infinity 510 driver – Serial communications did not work and now it does
- Added new Required Reads parameter to the Pallet Stacker window. This parameter determines how many times a tag should be read in succession before assuming it is the tag to stack. Prior to this the parameter was hard coded at 10.

**V02.05.02 October 13<sup>th</sup> 2006**

- New Sirit Infinity 510 Driver (ISO 180006B, Gen2)

- Performance improvements on ThingMagic drivers
- Performance improvements on AWID drivers

**V02.05.01 September 26<sup>th</sup> 2006**

- New ThingMagic Mercury 4 / Mercury 5 Driver (Class 0, Class 1, Gen 2)
- New Samsys MP9320 2.8 EPC Driver (Class 0, Class 1, Gen 2, ISO 180006B)
- Portal Reader (Reading Tools Window) now allows individual images to be assigned to tags. This allows for excellent RFID demonstrations. In association with this, there is a new Tag Images application in the Reading Tools Windows that provides a drag-and-drop interface for associating images to tags
- All 3D graphics now have an additional menu option (right-click menu) for saving the image as a Gif file. This gif will be a transparent gif.

**V02.05.00 September 12<sup>th</sup> 2006****Hotspot General**

- All Hotspot workspaces are now controlled by selecting icons rather than menu options – this looks nicer and actually aids in navigation through the system
- Two new workspaces have been added: the first for reading tools, which includes the Readometer, Conveyor and Portal modes. The second is a collection of programming tools
- Readers can be selected directly from the reader-toolbar at the bottom of the screen
- Reader-specific options can be controlled directly from the reader-toolbar at the bottom of the screen

**Case and Item Workspace**

- The file format for Case-level objects has been changed slightly. In older versions, any images for the faces of the 3D geometry was stored only as a reference to a file. Now a copy of the image is read in, compressed and actually saved directly as part of the file. This solves a problem of images becoming disassociated with the case-level objects when moved around. The consequence of this change is that all existing files will need to have their images associated again.
- The original object setup screen has now been split into two separate screens: one to define the basic geometry, and one to assign images to the faces.

- Image Association has been made easier to use. Images can now be retrieved from a geometry face and applied to other faces as required.

### **Pallet and Container Workspace**

- The original pallet setup options have been streamlined and split into two basic screens. The first is the geometry setup screen. The second is the layer builder.
- The layer builder now requires that cases are dragged from the bottom of the screen and dropped onto the birds-eye-viewer. Holding the shift key down at this point will rotate a case through 90 degrees.
- Arrow keys can now be used in the birds-eye view to finely position selected

### **Reading Tools Workspace**

This is a new workspace that contains tools that were original listed under the Tools menu.

- Readometer – Measure tags-per-second of a reader
- Conveyor – Put the reader into high-speed conveyor mode and record tags as they are read
- Portal – Put the reader into portal mode and record tags as they are read

### **Programming Tools Workspace**

This is a new workspace that contains tools that were original listed under the Tools menu.

- Program Hex – Program tags using Hexadecimal tag IDs
- Program EPC – Program tags using EPC constructs
- Program Auto – Auto program a batch of tags by waving tags in front of reader, one at a time

### **Reader Drivers**

- All reader drivers have been rewritten to reduce multi-threaded conflicts and to improve performance
- Readers can now expose a property page on the Hotspot screen – this allows reader-specific properties to be controlled by the user
- Reader Setup screens have been enhanced to allow multiple reader definitions to be stored and edited
- Reader Drivers are stored in a separate runtime file called 'rfid.jar'. This allows for updated reader drivers to be distributed without having to redistribute the main Hotspot application.

### **Read Modes**

Throughout Hotspot are the concept of Single Tag Read Mode and Multiple Tag Read Mode. Each reader is pre-programmed with optimal settings for both modes. These settings are displayed when in use, and can be edited and saved as part of user preferences. For example the default value for the Gen2 Q setting in Single Tag Mode for an Intermec IF5 is 0. This can be changed by the user to be any valid Q number. Changing this value will alter the setting for all subsequent IF5 related Single Tag Read Mode operations. This will not alter Single Tag Read Mode settings for any other reader type, or will it alter the Multiple Tag Read Mode settings for the IF5.

The current read mode is always displayed at the top of the Reader Options Popup window.

**Single Tag Read Mode** uses settings designed to optimally read just one tag in the field of view, for example on a conveyor belt. The following workspace screens use Single Tag Read Mode:

- Case and Vial Workspace: Sweep Test, Hotspot Test
- Pallet and Container Workspace: Pallet Stacker
- Read Tools: Readometer, Conveyor Reader
- Programming Tools: Hex Programmer, EPC Programmer, Auto Programmer

**Multiple Tag Read Mode** uses settings designed to optimally read multiple tags in the field of view, for example through a portal. The following workspace screens use Multiple Tag Read Mode:

- Pallet and Container Workspace: Pallet Reader
- Read Tools: Portal Reader