Mercury API Release 1.11.2

API Version 1.11.2 for the M6 Reader, Astra Reader, Vega Reader, USB Reader, M6e family of modules and M5e family of modules

These release notes describe the features of API ver. 1.11.2 relative to version 1.11.1. This includes the .NET (C#) API, the Java API, the C-API and the Universal Reader Assistant demo program

For a full description of how to use the API, refer to The *Mercury API Programmers Guide (875-0049),* which is available at http://rfid.thingmagic.com/devkit

New Features

ISO 18000-6B Support

The ISO 18000-6B protocol is now supported in the LLRP version of the M6 reader, as an extension to LLRP. Read, write, and lock functions are supported. A modulation-depth setting has been added to optimize performance for both older and newer tags, and a delimiter option has been added to support a wider range of tags which are based on this standard, such as Transcore eGo® tags.

Bug Fixes

Java API-specific

- Java API now returns an error if the host attempts to enter an invalid license key
- Default "/reader/gen2/tari" value is no longer displaying as null instead of "0"(Zero).

C-API-specific

- C-API now recognizes the product code for modules alone and no longer reports them as an unknown product type
- Error code now returned if an attempt is made to connect to a network reader from a Windows workstation (this is supported on Linux workstations)

- NXP "SetReadProtect" now working correctly for both Linux and Windows platforms
- Some C-API code samples explicitly set the region to North America, which will fail if used with an M5e-EU module

Universal Reader Assistant specific

- URA no longer hangs if no tags are found

Operational Notes

C-API specific

- Makefile and source must be in "/c/src/api" and the cross-compiler environment must be in "/ directories.
- "readline" utility must be present in the system before C code is compiled.

Universal Reader Assistant (URA) specific

- If URA indicates that the reader or module firmware is incompatible with the current version and fails to connect, the firmware can often still be updated using the Upgrade utility in the Options menu.
- On startup, URA automatically detects the serial and USB ports active in the local PC. It does not check again, so if connections are altered, it will be necessary to restart URA to have it run the detection algorithm again.
- URA should be the only application controlling the reader, or it may not display correct settings. For example, if changes are made via LLRP directly or the web interface (for the M6) and then URA is connected to the reader, it may not detect all the changes from default that have been made.
- URA has been observed to fail if an attempt is made to change GPO states for an M5e-EU module in the Advanced Configuration menu.
- When connected to an Astra reader with both antennas connected, URA has been observed to report that all tags have been read on antenna 1.
- Wrong data offset from the desired tag memory location can be reported by URA when connected to an M6 reader. This is because the URA interface allows data reads on byte boundaries, but LLRP (and therefore M6) only allows reads on word boundaries, so returns information that is offset from that requested.
- When connected to a module' module's USB port and actively reading tags, URA will not indicate any errors if the USB connection is broken and restored, but will freeze once an attempt is made to cease tag reading.