

intelleflex[®]

XC3 Technology[™]

HMR-9090 Release Notes

3.0.7.118 Release

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Caution

RFID Readers should be operated with a minimum distance of at least 32 cm between its antennas and a person's body in keeping with RF exposure limits in Council Recommendation 1999/519/EU

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Overview

Supported Reader Models:

- HMR-9090

Official Released Versions:

- HMR-9090 Firmware: 3.0.751
- Mobile DLL: 3.0.7.118
- EnviroSense LE: 1.7.1.7

Support Operating Systems:

- Win Mobile 5.0, 6.1

New Functionality

DLL

1. Added abort functionality to interrupt the reader and clear the commands in the command queue
2. Added validation to prevent reading block 0 when reading log data

Reference Application

1. Added validation for push button start delay
2. Added extra validation to prevent non-numeric characters in text boxes expecting integers

Geiger Application

1. Adjusted the Geiger widget range
2. Added rolling averages for smoother fluctuations
3. Added max value indicator

Performance Application

1. Added a new application to the SDK focusing on providing performance data for users

Compatibility Notes

DLL

1. Time formatted strings now always show minutes and seconds as two digit numbers
2. Continuous log mode is now officially supported

Resolved Issues

DLL

1. Removed a few restrictions on select mask length that prevented valid use
2. Various logging fixes for inference and compressed formats

3. Fixed issue with `ColdChainGetCurrentTemperature` function when working with temperature tags prior to version 1.0.101
4. Fixed issue reading temperature log entries created after December 21 2011
5. Fix for occasional, incorrect, temperature log entries at the end of Continuous/Standard logs
6. Fixed `ColdChainReadUserData` offset to allow offsetting beyond the first block

Firmware

1. Replaced RF filters for improved standards compliance

Reference Application

1. Fixed waypoint ID box to take 32 bit decimal values only

Open Issues

DLL

1. Setting "Extended Button Press Time" to 0 will result in unexpected behavior on the tag.
 - Workaround: Set Extended button press time >0.
2. If any temperature is specified in Fahrenheit, there may be slight rounding errors during the conversion process.
 - Workaround: If needed, specify temperatures in Celsius to avoid any rounding errors.
3. Over longer period of time (i.e. 2 months when doing 1 tag log data poll every 1 min) DLL based clients will incur memory allocation increase.
 - Workaround: At some time interval (daily, after N loop iterations, etc) close reader object, assign it to NULL, create new reader object and open it.

EnviroSense

1. Status display for Last Log does not display the last logged temperature when log memory is full.
2. ES is slow in response to errors; GUI appears frozen for a couple of seconds after the RF traffic has stopped, and the error is reported.
3. Cannot pre-configure text in the Info tab as part of the Tag Configuration step.
 - Workaround: Leave the info field empty during configuration and write to the Info tab in data menu.
4. Tags configured with Standard or Inference Data Format will finish with minus one sample interval time.

System Wide

1. RFPProfile is not supported for C1G2 protocol. When C1G2 is selected the same settings will be used for all profiles: Miller 4, BLF 160, and ForwardLink 80.
 - Workaround: Users can override RFPProfile settings by using advanced/expert features.
2. Following combination of parameters for backscatter and Miller don't work:
 - Backscatter:192
 - Miller: 4