RF Code™

Reader Configuration Utility – Release History

August 1, 2014 - Now Available: Reader Configuration Utility v2.7.2

This release of the Reader Configuration Utility added new reader firmware (v1.4), which includes the following updates:

- Support for Treatment code 5 and 6
- Increase group code limit from 16 to 32
- Add ability to configure reader from CSV file on USB drive
- Added remote syslog capability
- Update version of Dropbear SSH server

Previous releases:

February 12, 2014 - Now Available: Reader Configuration Utility v2.7.1

This release of the Reader Configuration Utility added new firmware (v1.3.1), which includes the following updates:

- Added fix for double-binding error when HTTP set to port 8080
- Added fix for error log filling up
- Add ignore-lowconf-init option

April 15, 2013 - Reader Configuration Utility v2.7

This release of the Reader Configuration Utility added new firmware (v1.3), which includes the following updates:

- Added support for the M240 Reader (part of the *Environmental Monitoring for Network & Telecom Closets* bundle).
- Disabled SSLv2 and weak ciphers

November 12, 2012 - Reader Configuration Utility v2.6

This release of the Reader Configuration Utility added new firmware for the M250 Reader (v1.2.3), which includes the following bug fixes:

- Addressed network connectivity issues that occasionally caused the reader to go offline after reboot, which then required a power-cycle to recover

August 14, 2012 - Reader Configuration Utility v2.4

This release of the Reader Configuration Utility added new firmware for the M250 Reader (v1.2.1), which includes the following bug fixes:

- Addressed memory leak on M250 when Garmin GPS unit connected
- Addressed buffer overrun on M250 when in SSL mode

January 11, 2012 - Reader Utilities v2.3.1

This release of the Reader Utilities added the following fixes and enhancements:
- Fixed issue where Windows USB driver for M250 fails to install
- Fixed issue with authenticated login on serial connection

October 25, 2011 - Reader Utilities v2.3

The Reader Configuration Utility contains the v1.2 firmware upgrade for the M250 Fixed Reader. This version of firmware contains the following fixes and enhancements:
- Add SSL support

The supported version of reader firmware for the M220 Mobile Reader remains at v2.41, and the supported version of the reader firmware for the M200 Reader remains at v2.44.

This release of the Reader Utilities added the following fixes and enhancements:
- Added DNS server configuration support for M250

June 06, 2011 - Reader Utilities v2.2

The Reader Configuration Utility contains the v1.1 firmware upgrade for the M250 Fixed Reader. This version of firmware contains the following fixes and enhancements:
- Add IPv6 support
- Add serial device support
- Add GPS support
- Add additional reader diagnostic information
- Fixed issue where M250 readers that have real-time clock set to a time that is out of the Unix time range (before Jan 1, 1970 or after Jan 19, 2038) will fail to report lost tag events.

The supported version of reader firmware for the M220 Mobile Reader remains at v2.41, and the supported version of the reader firmware for the M200 Reader remains at v2.44.

October 20, 2010 - Reader Utilities v2.1

The Reader Configuration Utility contains the v2.44 firmware upgrade for the M200 Fixed Reader. This version of firmware contains the following fixes and enhancements:
- Add duplicate payload reporting option
- Add option for per-groupcode override of exception mode

The supported version of reader firmware for the M220 Mobile Reader remains at v2.41.

November 10, 2009 - Reader Utilities v2.0

The Reader Configuration Utility contains the v2.43 firmware upgrade for the M200 Fixed Reader. This version of firmware contains support for a payload masking feature which allows the reader to be configured to ignore particular payload bits such as motion.

The supported version of reader firmware for the M220 Mobile Reader remains at v2.41.

Also, the MobileTrak Lite application and Tag Collection Utility were removed from the Reader Utilities CD-ROM. These applications will be made available from the RF Code web site (registration required).

April 14, 2009 - Reader Utilities v1.6

This release of the Reader Utilities added the following fixes and enhancements:
- Added support for RF noise readings in MobileTrak Lite, BlackBerry version.
- Added support to MobileTrak Lite for R155 Temperature/Humidity tag and R130 Dry Contact tag.

The Reader Configuration Utility contains the v2.41 firmware upgrade for the M200 Fixed Reader and M220 Mobile Reader. This release re-synched the firmware support for both readers.

January 20, 2009 - Reader Utilities v1.5

This release of the Reader Utilities added the following fixes and enhancements:
- Some readers built with firmware 2.37 could not be upgraded without first performing a factory reset on the reader. Reader Configuration Utility (RCU) V1.1.5 corrects this issue.

- Before reader firmware v2.40 and RCU 1.1.5, if a reader was in use by an application, it could not be connected to by the RCU for configuration changes or upgrades until the connecting application stopped communicating with the reader. RCU v1.1.5 has been enhanced to allow the interruption of readers running v2.40 firmware for upgrades or configuration changes.

The Reader Configuration Utility contains the v2.40 firmware upgrade for the M200 Fixed Reader (note: v2.39 remains the supported firmware level for the M220 Mobile Readers and M210 PC Card readers). V2.40 contains the following enhancements:

- Added Up-Connect support which enables a fixed reader to reside behind a firewall without having to open an incoming IP port.

- Added support for Reader Partitioning. Reader Partitioning can be used in tag dense environments (more than 4096 tags within range of a single reader) to improve scalability.

- Improve error correction to reduce the rate of reporting high confidence but incorrect tag payloads.

- Added RF Event Rate reporting which reports the total number of RF events per second that each channel of the reader is processing. This is useful for detecting RF saturation.

- Added Reader Tag Capacity Reporting which reports the percentage of the internal reader tag database that is in use. This is useful for tag dense environments to help indicate when Reader Partitioning should be implemented.

- Added support for A600 Tag Controller and Tag Controller-enabled tags.

November 05, 2008 - Reader Utilities v1.4

This release of the Reader Utilities added the following enhancements/fixes:
- API - documented use of D command for use as a tool to measure noise floor for site surveys
- API – update group code list
- MobileTrak Lite – fixed error condition when deleting a tag in tracking mode
- Reader Configuration Utility – fixed issue where "Connect" is grayed out if reader list is blank

The Reader Configuration Utility contains the v2.39 firmware upgrade (v2.38 was an internal release). The following issues were addressed:

- Added support for persistent reader settings between power cycles (Save command)

- Improve reader recovery time when network buffer full. This situation can happen on slow networks or when the application is not reading data often enough. As a result, the reader appeared to be offline.

April 28, 2008 - Reader Utilities v1.3

This release of the Reader Utilities CD-ROM added the following enhancements:

- CD-ROM contents – removed SDK contents and moved to RF Code web site
- Reader Configuration Utility - Added support for configurable TCP port
- MobileTrak Lite – Added support for temperature tag

The Reader Configuration Utility contains the v2.37 firmware upgrade which added the following functionality:

- Configurable TCP port (previously, only port 6500 could be used)

January 29, 2008 - Reader Utilities and SDK v1.2

This release of the Reader Utilities and SDK CD-ROM added the following enhancements:

- Reader Configuration Utility - added support for R200 Readers
- MobileTrak Lite - Added support for Windows Mobile devices
- MobileTrak Lite - Added support for Door Tags
- MobileTrak Lite - Added support for O command

The Reader Configuration Utility contains the v2.36 firmware upgrade which added support for R200 Readers and fixed the following issue:

- M210 & M220 reader - Fix ":get" response for <null> values

October 29, 2007 - Reader Utilities and SDK v1.1.1

This release of the Reader Utilities and SDK CD-ROM added the following enhancements and fixed the following issues:

- Reader Configuration Utility - added support for Japanese PC Card readers
- Added MobileTrak Lite for Windows Mobile documentation
- Fixed issue in MobileTrak Lite where a duplicate tag id in the configuration file caused an exception
- Fixed issue in MobileTrak Lite where the application sometimes failed to report tag data after long periods of inactivity

The Reader Configuration Utility contains the v2.35 firmware upgrade for Mantis II/M200 and PC Card/M210/M220 Mobile Readers. V2.35 firmware added the following enhancements and fixed the following issues:

- Added new O mode flag for ignoring low-confidence payload changes while in exception mode in busy or low SSI value environments

- Added SSI change threshold for exception mode
- Added new ZD parameter for SSI summing mode
- Added support for including the payload and most recent SSI values in the tag database displayed by the OD command
- Fixed issue when more than 4000 tags collected on M220 Reader
- Fixed issue where commands do not work on 64-bit Windows/Hyperterminal

September 21, 2007 - Reader Utilities and SDK v1.1.0

The Reader Utilities and SDK CD-ROM is a replacement for the previously released Reader Configuration Utility CD-ROM and contains the following:

- **Reader Configuration Utility** – a Windows-based utility for upgrading firmware and configuring Mantis II, M200, M210 and M220 Readers

- **RF Code SDK** – reader API specification and code samples for 3rd-party RFID application development

- **MobileTrak-Lite** – demonstration asset tracking and inventory application for Windows, Windows Mobile, and BlackBerry

- **Tag Collection Utility** - a Windows-based application that utilizes the Tag Collection Mode of the M220 Mobile Reader to inventory groups of assets

The Reader Configuration Utility contains the v2.34 firmware upgrade for Mantis II/M200 and PC Card/M210 Mobile Readers. The v2.34 firmware contains the following enhancements:

- Added DHCP network support
- Added login authentication – readers can now be secured with a userID/password
- Serial support - added support for upgrade and input/control via serial connection
- Intelligent Tag Reporting (O command) – enables readers to report only messages that are not duplicates of previous messages, reducing network traffic
- Tag age-in delay capability – reader will not report tagID "found" until specified number of messages are received
- Tag age-out delay capability – reader will not report tagID "missing" until specified amount of time has elapsed
- Added support for SSI channel difference mode for readers with two channels/antennae
- Added "Tag Collection Mode" which reduces the need for a continuously connected client application
- Disabled TFTP upgrade interface for increased security
- Added configuration of fixed reader over network, even when reader has improper network settings (TCP and discovery support)

V2.34 firmware addressed the following issues:

- Increased TCP connection timeout from 2 to 30 seconds
- Fixed issue where an interrupted upgrade could cause a reader to become inoperable

Note for Japanese reader models: this upgrade is for fixed Ethernet readers – Models: Spider V and MR-2 Only.

July 27, 2007 - Reader Configuration Utility 1.0.0

The Reader Configuration Utility 1.0.0 is a Windows-based application that is used to update firmware and to configure an IP address on your M100/Mantis II 433MHz Reader. This release contains the following updates:

- A new, easy-to-use, wizard-like interface for IP configuration and firmware updates
- M200/Mantis II firmware v2.33 which includes the following functionality:
  - support for IR-enabled tags
  - support for GR command (improved group code reset)
  - support for VV command (improved version reporting)
  - fixed issue with R<8, Z >40 combination on Z command (improved range tuning)

Support for other RF Code readers will be added to the Reader Configuration Utility in subsequent releases.