-- Add changes to unreleased tag until we make a release.

xxxxx , v1.4.12

30 Dec 2023, v1.4.11

- fix: documentation

1 Nov 2021 , v1.4.10

- fix: timeout on Non-AVR boards; feat: Use yield() in busy wait loops @greezybacon

- fix PCD problem after selftest

31 Jul 2021, v1.4.9

- Removed example AccessControl

- Updated docs

30 Dec 2020, v1.4.8

- Fixed wrong SPI clock speed.

25 Jun 2020, v1.4.7

- Fixed typos

- Moved PICC memory layout to /doc

21 Jan 2020, v1.4.6

- Library in freeze mode, no new features, no new examples, just bugfixes to keep compatibility for old projects

- Updated documentation

- Removed deprecation warnings due code freeze

12 Jun 2019, v1.4.5

- Library in freeze mode, no new features, no new examples, just bugfixes to keep compatibility for old projects

- Updated README

31 Mar 2019, v1.4.4

- Fixed example

- Fixed UnbrickUidSector

- Updated comments

- Removed teensy from CI and PlatformIO config

27 Oct 2018, v1.4.3

- Added counterfeit detection and hint about bad boards

- Improved hardware based reset

04 Oct 2018, v1.4.2

- Fixed keywords

- Changed development status of library

04 Oct 2018, v1.4.1

- Replaced UINT8\_MAX by UNUSED\_PIN

- Replaced default value NULL for pointer with correct nullptr

- Added pin layout for wemos d1 mini @mmone

- Added alternative fritzing layout for mfrc522 reader @jose1711

- Added soft power control functions @Bill2462

- Fixed typo in example ReadAndWrite.ino @Drachenfrucht1

- Fixed grammar @KiddieD

- Fixed infinite loop in example AccessControl.ino @mads256c

- Fixed 0-index key ID equals to 0 fails in AccessControl.ino @thoaitrieu

- Changed type boolean to bool for a more common use @Rotzbua

- Fixed wrong var names in PICC\_Select MFRC522.cpp @tuyethoa08041997

- Fixed hang PCD\_Init() on non-arduino boards @heziegl

- Fixed possible infinite loop PCD\_Reset() @psgreco

- And many thanks to all other contributors

13 Apr 2018, v1.4.0

- Replaced UINT8\_MAX by UNUSED\_PIN @Rotzbua

- Fixed hang PCD\_Init() on non-arduino boards @heziegl

- deprecate MIFARE\_SetAccessBits @Rotzbua

- IMPORTANT: v1.4.X will be last version under license "unlicense"

22 Mar 2017, v1.3.6

- Added deprecate and compiler warnings @Rotzbua

8 Apr 2017, v1.3.5

- Updated "AccessControl.ino", bugs fixed and alternate wipe button polling method without using other library @beyondszine reviewed by @omersiar

- Updated README notice about port for esp8266 @mmmmar

7 Apr 2017, v1.3.4

- Added new example "rfid\_read\_personal\_data.ino" @ryand1011

- Updated example "rfid\_write\_personal\_data.ino" code style to Arduino IDE @Rotzbua

- Removed (temp.) Teensy from travis build script because fails @Rotzbua

26 Mar 2017, v1.3.3

- Fixed bugs in MFRC522Extended, now should work with Desfire.h from JPG-Consulting @Rotzbua

- Fixed UINT8\_MAX error @Rotzbua

15 Mar 2017, v1.3.2

- Added ESP8266 to library.properties

15 Mar 2017, v1.3.1

- Fixed compiler warning in MFRC522Extended @Rotzbua

- Removed unused function @Rotzbua

13 Mar 2017, v1.3.0

- Warning: Source has moved to folder src!

- Added addtional class to support ISO/IEC 14443-4 PICCs @JPG-Consulting

- Added RATS (Request for Answer To Select) @JPG-Consulting

- More information see https://github.com/miguelbalboa/rfid/pull/271 @JPG-Consulting

13 Mar 2017, v1.2.1

- Removed need for reset pin #275 @tkoester

- Added SPI speed option + Various minor changes #276 @tuyethoa08041997

- Updated documentation, travis build script and small code change @Rotzbua

3 Jan 2017, v1.2.0

- Warning: This version introduce usage of stdint.h, usage of not well defined int types are abandoned.

Interface has changed: e.g. long -> int32\_t

@Rotzbua

- Removed problematic example examples/servo\_motor/servo\_motor.ino @omersiar

- Added examples/AccessControl/AccessControl.ino @omersiar

- Fixed minor issues reported in #211 @omersiar

- Added bad components hint to README @danielcbit

- Fixed selftest @surr

- Fixed auth problem with long UIDs @surr

26 Aug 2016, v1.1.9

- Warning: Only Arduino IDE version 1.6 is supported, please update your IDE to 1.6 to use this Library.

- Added ESP8266 platform support @Rotzbua

- Changed README.rst content to show more info @Rotzbua

- Minor Changes to examples/ReadUidMultiReader/ReadUidMultiReader.ino example @Rotzbua

11 Feb 2016, v1.1.8

- Added examples/MinimalInterrupt/MinimalInterrupt.ino example, Interrupt example @lmmeng

- Added .gitignore file allows the project to be more easily used as a subproject. @BenWiederhake

- Added Added Teensy 2.0 & Tensy++ 2.0 pinouts to README.rst @jkutianski

16 Jan 2016, v1.1.7

- README.rst Spelling and Grammar Tweak @cuthbertnibbles

- Added examples/servo\_motor/servo\_motor.ino example, Arduino RFID Access Control with a Servo Motor @techied

- Added examples/RFID-Cloner/RFID-Cloner.ino Copy from rfid cards with standard authentication @stefanblommaert

- Fix compile error at examples/RFID-Cloner/RFID-Cloner.ino, using MFRC522:::PICC\_Type, @Rotzbua

06 Jan 2016, v1.1.6

- Fixed compilation error for examples/ReadNUID/ReadNUID.ino example. @Rotzbua

04 Jan 2016, v1.1.5

- Use settings functions on SPI libraries, setSPIConfig was deleted, now the library use SPI.beginTransaction() and SPI.endTransaction() @sophiekovalevsky

- Added examples/ReadNUID/ReadNUID.ino example, showing how to read new NUID from a PICC to serial. @sophiekovalevsky

03 Jan 2016, v1.1.4

- Added Authentication with Ntag 213,215,216 returns the pACK MFRC522::PCD\_NTAG216\_AUTH @Gargantuanman

- Starting to use versions http://semver.org/

- Continuous Integration @ivankravets

- functions return MFRC522::StatusCode and MFRC522::PICC\_Type instead of generic byte @rotzbua

- removed int-values of MFRC522::StatusCode and MFRC522::PICC\_Type @rotzbua

05 Dec 2015

- recognize infineon cards correctly @mayatforest

- added multi reader support, see example @lmmeng

10 Nov 2014

- Updated the changelog.

- Added makefile.

24 Oct 2014

- Added PlatformIO-based manifest file.

17 Jul 2014

- Written documentation for the library.

- Added rfid\_default\_keys example.

11 Jun 2014

- Updated example: ReadAndWrite.

14 Apr 2014

- Updated examples: DumpInfo, MifareClassicValueBlock, and ReadAndWrite.

12 Feb 2014

- Fixed resetPowerDownPin initial state.

29 Jan 2014

- Fixed chipSelectPin initial state.

30 Nov 2013

- Examples put in their own folders.

- Updated the keywords.txt file.

12 Nov 2013

- Updated examples: DumpInfo, MifareClassicValueBlock, and ReadAndWrite.

20 Oct 2013

- All constants, functions and parameters are now commented in English.

- Code refactored, most function names have changed.

- Support ISO-14443-3 anti collision and 4/7/10 byte UIDs (cascade levels).

- Added functions for MIFARE Classic Decrement/Increment/Restore/Transfer

and MIFARE Ultralight Write.

- New examples written.

19 Oct 2013

- Renamed library from RFID to MFRC522 (RFID seemed to generic).

- Register names changed to comply with datasheet.

- Global defines moved into class.

24 Sep 2013

- Turn off encryption when tag is halted.

27 Jan 2013

- Added README and small TODO list.

- Added example to show Serial on LCD display.

09 Sep 2012

- Initial commit to GitHub.