IDENTIFICATION

RELEASE NOTES

ID ISC.SDK.xxx for C++

History of Revisions

Note

This manual supercedes all previous editions.

The information contained in this manual is subject to change without notice.

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The installation instructions given in this manual are based on advantageous boundary conditions. FEIG ELECTRONIC GmbH does not give any guarantee promise for perfect function of an Identification-system in cross surroundings.

General Information Regarding this Document

- The following figure formats are used:
  0...9:   for decimal figures
  0x00...0xFF: for hexadecimal figures,
  b0...1   for binary figures.

- The hexadecimal value in brackets "[ ]" marks a command.

Content

History of Revisions

05.06.00 (2021-05-21)

General

- Support for new reader types ECCO Smart HF-BLE and ECCO Smart 2D-HF-BLE

Features

- Updated Config Parameters for some Readers
- support for new command [0x3A] Adjust Auto Read Mode

Changes

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Bug fixes

- Bugfix in [0xA1] Reader Login

Improvements

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Discontinued Support

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05.05.04 (2020-11-06)

General

- Support for new reader type HyWEAR compact sR

Features

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Changes

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Bug fixes

- Memory leak fixed in ReaderInfo::Clear()

Improvements

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Discontinued Support

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05.05.02 (2020-07-15)

General

- Support for Raspberry Pi 3 Stretch and Buster
- Support for Raspberry Pi 4 Buster

Features

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Changes

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Bug fixes

- Bugfix for occational crashes in IBrmTable::GetItemByIndex, caused by an uninitialized boolean variable.
- Bugfix in library FEISC for of a race condition, when multiple threads are used for controlling multiple readers.
- Bugfix in library FEISC for using the call order **FEISC_BuildSendProtocol**, **FEISC_SendProtocol** and **FEISC_SplitRecProtocol** in combination with protocol encryption.

Improvements

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Discontinued Support

- Raspberry Pi 2
- Raspberry Pi Jessie operating system

05.05.00 (2020-05-11)

General

- Support for new Scanner: **ID HyWEAR compact xT**

- Support for new Reader: **ID SPAD.U**

- Support for new Reader: **ID CPR71**

Features

- Updated Config Parameters for some Readers

Changes

- **FEISC** library: two callback functions modified for C conformity (**FEISC_TASK_INIT.cbFct3** and **FEISC_TASK_INIT.cbFct4**)

Bug fixes

- bugfix for ISO 15693 TagHandler STM LRiS64K
- bugfix for DAT concerning cascade level

Improvements

- Improved support for ID CPR60

Discontinued Support

05.04.00 (2019-11-15)

General

- Support for new Scanner: **ID ECCO+**

Features

- Updated Config Parameters for some Readers

Changes

Bug fixes

- TagHandler class **TH_ISO15693_STM_ST25DVxxK:** fixes in ReadMBMsgLength, ReadMBMsg and WriteMBMsg.
- TagHandler class **TH_ISO15693_NXP_ICODE_DNA** is generated now.
- ReaderInfo Mode 0x40/0x41: elements have now valid values
- **IBrmTableGroup::BrmTableItem**: fix for Mac-Address, when it is part of the data record.

Improvements

- After call of Reboot(), the Inventory Table is cleared.
- Prepared for new Windows 10 certified USB Kernel Driver v3.26

Discontinued Support

- End of support for the following Readers:
  ID ISC.MR200
  ID ISC.LR200
  ID ISC.LR2000
  ID ISC.MRU200
  ID ISC.LRU1000
  ID ISC.LRU2000

- End of support for the following Transponder chips:
  IDS SL900A
  IDS SL13A
  KSW
  Maxim MAX66000 series

05.02.00 (2019-03-15)

General

- Support for new Scanner: **ID HyWEAR compact**
- Support for new Readers: **ID LRU500i-PoE**, **ID LRU500i-BD** and **ID MAX.U500i**

Features

- TagHandler class **TH_ISO15693_STM_ST25DVxxK:** from Reader supported commands implemented as transparent commands for the following Readers: MR101, PRH101, MR102, LR2500-A, LR2500-B, CPR30, CPR74
- New static methods in **Const::ReaderType**: IsISO15693Reader, IsISO14443Reader, IsISO180003m3Reader, IsEpcC1G2Reader. These methods are also added as non-static to IInfoGroup::ReaderInfo.

Changes

Rename of Set/GetReaderHnd in Set/GetReaderHandle

Bug fixes

- TagHandler class **TH_ISO15693::**LockMultipleBlocksEx: bank was not set correctly.

Improvements

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05.01.01 (2018-09-14)

General

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Features

- TagHandler class **TH_ISO15693:** New communication methods for ISO 15693-3
    1. ReadMultipleBlocksEx
    2. WriteMultipleBlocksEx
    3. LockMultipleBlocksEx
    4. GetSystemInformationEx
    5. GetMultipleBlocksSecurityStatusEx

Changes

- TagHandler class **TH_ISO15693:** GetSystemInformation has new signature.
- TagHandler class **TH_ISO15693_STM_M24LR64R:** the following communication methods are removed and replaced in TH_ISO15693:
    1. ReadMultipleBlocks
    2. WriteMultipleBlocks
    3. LockMultipleBlocks
    4. GetMultipleBlocksSecurityStatus

Bug fixes

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Improvements

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05.00.00 (2018-07-27)

General

- Release of new API

Features

- TagHandler class **TH_ISO15693:** New communication method TransparentCommand for [0xBF] Transparent Command.
- Class **BrmTableItem:** Support for Tag Statistics for UHF Readers.
- Support for Extended Devices/Function Units.

Changes

- TagHandler class **TH_ISO15693** and **TH_EPC_Class1_Gen2:** Communication methods Authenticate and Challenge modified according the modifications in the Reader firmware.
- SDK for Windows:
    - C++ libraries for VS 2012, 2013, 2017 (all undependent of MFC)
    - FECOM, FEUSB, FETCP, FEISC and FETCL: remove of Windows specific event notification capabilities

Bug fixes

- SDK for Raspberry Pi: undefined symbol in Firmware Update resolved

Improvements

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04.09.02 (2018-03-20) – 4th Beta

Features

- Windows: Libraries with C-API (FECOM, FETCP, FEUSB, FEISC and FETCL), created with Visual Studio 2013 or newer are free of Windows.h and pure Windows Libraries.

- FEFU: two new functions and repeat of DAT commands after a delay, when the call failed with timeout. More information can be found in H30801-e-ID-B.

Changes

- Remove of myAXXESS library.

Bug fixes

- Linux: Bugfix for USB communication with PR101/MR101/PRH101
- TH_EPC_Class1_Gen2.GetEpcOfIDD: Control of length information from PC

04.09.01 (2018-01-15) – 3rd Beta

Features

- Support for NXP MIFARE Mini CL2

- Support for new Readers: ID ISC.ANT.U520/270-GA and -DM

- All Windows Libraries, created with Visual Studio 2013 or newer are free of MFC and pure Windows Libraries.

04.09.00 (2017-09-29) – 2nd Beta

Features

- Class **ReaderModule**
    - Add of communication methods Reboot, RfReset, RfOff, RfOn, SetOutput, GetInput, SetSystemClock, GetSystemClock, ReaderLogin
    - Add of new internal interface IKeyMngGroup
- Class **IBrmTableGroup**
    - Add of communication methods ReadBuffer, ClearBuffer, InitializeBuffer and GetBufferInfo.
- New class **IKeyMngGroup** with communication methods for setting authentication passwords.
- New **TagHandler** classes for
    - STM ST25DV04K and STM ST25DV16/64K
    - NXP ICODE DNA
    - NXP ICODE SLIX2
- TagHandler class **TH_EPC_Class1_Gen2**
    - New communication methods Select, Untraceable, Authenticate, Challenge and ReadBuffer accoding EPC class1 gen2 standard v2.0.1 and ISO/IEC 29167-x
- TagHandler class **TH_ISO15693**
    - New communication methods Authenticate, Challenge and ReadBuffer accoding ISO/IEC 15693-3 Amd4 and ISO/IEC 29167-x
- New **Utility classes** DateTime and OutputSettings

Changes

- Updated Reader Configuration namespaces in ReaderConfig
- For ID ISC.LRU1002: Phase Angel feature for Host-Mode, Buffered-Read-Mode and Notification-Mode
- Class **ReaderModule**
    - Remove of internal interface IExtDeviceGroup. This interface will come back later.
- Class **BrmTableItem**
    - Table elements moved into sectors. This design is close to the configured data flow from the Reader.
- Adaptions in **TH_ISO14443_4** due to modifications in base library FETCL.
- TagHandler class **TH_EPC_Class1_Gen2**
    - WriteEPC supports EPC length of 0 (zero).

04.08.00 (2017-05-19) – 1ˢᵗ Beta

Features

- First beta of a new API on top of the old FEDM C++ library.