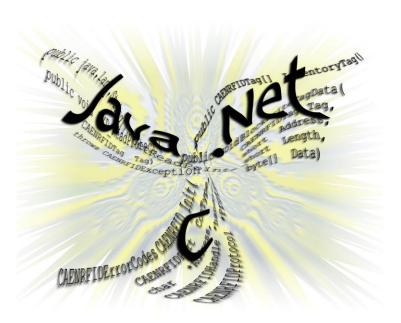
CAEN RFID API

Reference Manual







Reference Manual

Revision n. 03

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Scope of Manual

This manual documents the API used by C, Java and .Net programmers who want to write applications for controlling and using CAEN RFID readers.

Change Document Record

Date	Revision	Changes
29 Jun 2010	01	Initial release.
14 lan 2011	02	Added BRAZIL radiofrequency regulation in the CAENRFIDRFRegulations Enumeration.
14 Jan 2011	L 02	Corrected GetTimeStamp Method's return value.
		Added Federal Communications Commission (FCC) Notice
22 Mar 2011	03	Added R1260U Reader in the declaration of Federal Communications Commission (FCC) note.

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Federal Communications Commission (FCC) Notice (Preliminary) 1

This device was tested and found to comply with the limits set forth in Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This device generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instruction manual, the product may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case, the user is required to correct the interference at their own expense. The authority to operate this product is conditioned by the requirements that no modifications be made to the equipment unless the changes or modifications are expressly approved by CAEN RFID.

¹ This declaration only applies to FCC readers A828US, A829US, A528, R1230CB, R1260I, R1260U.

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1 Introduction

This Chapter gives basic information about CAENRFID Software Development Kit (SDK). It contains these topics:

- Overview on SDK
- Functions and methods names
- Error Handling
- Managing connections with the readers
- Return data mechanism
- Passing parameters to methods and functions





Overview on SDK

CAEN RFID provides a Software Development Kit (SDK) aimed to facilitate the software developers in interfacing with its readers. The SDK provides Application Program Interfaces (API) for three programming languages: C, Java and J#/C#/Visual Basic .NET.

The functionalities and the behaviors exported by the libraries are exactly the same for all the languages but, due to the syntax differences between them, there are differences in the implementation of functions and methods. Java and .NET implementation are very similar because they are both Object Oriented environments while the C implementation differs more.

The Object Oriented implementation (Java and .NET) defines a set of classes that models the devices characteristics, the main one are the CAENRFIDReader class and the CAENRFIDLogicalSource class. The first one implements the main methods used to configure general readers' parameters like the output power, the link interface and so on, the latter provides the methods to be used in order to communicate with the RFID tags (tags detection, read and write commands and so on).

The C implementation, on the contrary, implements a set of data types (defined into the CAENRFIDTypes.h header file) and a list of functions (defined into the CAENRFIDLib.h header file) in order to obtain the same functionalities as the Java and .NET classes.

In the Object Oriented languages (C# and Java) there are some methods that return objects, these methods have no correspondent in C language.

Further details on .NET and Java APIs can be found into the CAEN RFID API User Manual.

The following paragraphs will denote the differences in functionality for the topics listed below:

- Functions and methods names
- Error Handling
- Managing connections with the readers
- Return data mechanism
- Passing parameters to methods and functions

Functions and methods names

The functions and methods with the same functionalities have the same name in all languages. The only exceptions are due to the absence of the overloading feature in the C language: methods that are overloaded in Java and .NET are translated in a corresponding set of different functions in C.

Note: some methods and functions have changed name in the last revision of the API but older names are still functional to preserve backward compatibility (see § CAENRFID Obsolete Methods pag.121).

Error Handling

Java and .NET language API handle error conditions using the exceptions mechanism: when a method encounters an error, an exception is thrown to the calling code. The API defines a proper class for the exception generated by its methods (CAENRFIDException) the origin of the error is represented inside the CAENRFIDException object as a string.

C language does not provide the exception mechanism so the errors are handled using the return value of the functions. Each C function returns a numeric error code that can be interpreted using the CAENRFIDErrorCodes enumeration. Since no exceptions are generated, the execution flow of the program is not interrupted by the errors so it is always suggested to check for error conditions in the code before to call other functions.

Managing connections with the readers

Java and .NET languages allow to initiate and terminate the communication with the reader by means of two specific methods of the CAENRFIDReader objects. So, after an object of the class CAENRFIDReader is instantiated, the Connect method permits to start the communication with a reader while the Disconnect method permits to terminate the communication.

C language is not object oriented and the handling of the communication state is implemented using two functions. CAENRFID_Init is used to start the communication with a reader and to initialize all the library's internal data structures



needed in order to maintain the communication active. The function returns an "handle" (very similar to the handles used in managing files) that have to be used in any subsequent function calls relative to that reader. At the end of the operation, a call to the CAENRFID_End function permits to close the communication link and to free the internal data structures.

Return data mechanism

As seen in the Error Handling paragraph, all the C functions return a numeric error codes. Due to that reason, functions that need to return data to the caller use output parameters. Output parameters for the C functions are highlighted in this reference manual by the underlined name in the formal parameter list.

Java and .NET languages use exception for the error handling so, typically, the data is returned to the caller using the return value of the methods.

Passing parameters to methods and functions

There are differences in the parameters' lists between Java/.NET methods and C functions. Many of those differences are due to the implicit reference of the methods to their objects. This characteristic of object oriented languages is emulated in C functions using an additional explicit parameter. Methods belonging to CAENRFIDLogicalSource objects, for example, are emulated in C functions that accept SourceName parameters.

Other differences are due to the better handling of complex data types in Java and .NET languages. Arrays, for example, have implicit size in Java/.NET that permit to pass a single parameter to methods requiring this data type. In C functions, passing an array as a parameter, need to specify both the memory address of the array and its size explicitly.



2 CAEN RFID API Structure

This chapter describes CAEN RFID API Structure. It contains these topics:

- CAENRFID Classes
- CAENRFID Enumerations





CAENRFID Classes

In .NET (henceforth C#) and Java languages, CAENRFID methods are divided into the following classes:

Class	Description
CAENRFIDEventArgs2	This class defines the CAENRFID event arguments.
CAENRFIDException	This class defines the CAEN RFID exceptions.
CAENRFIDLogicalSource	The CAENRFIDLogicalSource class is used to create logical source objects. Logical source objects represent an aggregation of read points (antennas). Operations on the tags are performed using the logical source methods. In addition to the methods used to operate on the tags, the logical source class exports methods to configure the anticollision algorithm and to configure the composition of the logical source itself.
CAENRFIDNotify	This class defines the structure of a notification message.
CAENRFIDReader	The CAENRFIDReader class is used to create reader objects which permit to access to CAEN RFID readers' configuration and control commands.
CAENRFIDReaderInfo	The CAENRFIDReaderInfo class is used to create reader info objects. Reader info objects represent the information about the reader device (model and serial number).
CAENRFIDTag	This class is used to define objects representing the tags. These objects are used as return value for the inventory methods and as arguments for many tag access methods.

Tab. 2.1: CAENRFID classes

Each class contains the following methods:

Methods	Description
CAENRFIDEventArgs Class	
getData	Returns the event object value.
CAENRFIDException Class	
getError	Gets the error string associated to the exception.
CAENRFIDLogicalSource Class	
AddReadPoint	Adds a read point to the logical source.
	Overloaded. This method can be used to write a portion of the user
BlockWriteTagData	memory in a ISO18000-6B tag using blocks of four bytes for each command.
CustomCommand_EPC_C1G2	Overloaded. This method can be used to issue a generic Custom command as defined by the EPC Class1 Gen2 protocol specification. The parameters are used to specify the type of the custom command and its parameters.
EventInventoryTag	A call to this method will start a sequence of read cycle on each read point linked to the logical source. The readings will be notified to the controller via event generation.
Fujitsu_BurstErase	Overloaded. This method can be used to issue a BurstErase custom command as defined by the Fujitsu datasheet.
Fujitsu_BurstWrite	Overloaded. This method can be used to issue a BurstWrite custom command as defined by the Fujitsu datasheet.
Fujitsu_ChgBlockGroupPassword	Overloaded. This method can be used to issue a ChgBlockGroupPassword custom command as defined by the Fujitsu datasheet.
Fujitsu_ChgBlockLock	Overloaded. This method can be used to issue a ChgBlockLock custom command as defined by the Fujitsu datasheet.
Fujitsu_ChgWordLock	Overloaded. This method can be used to issue a ChgWordLock custom command as defined by the Fujitsu datasheet.
Fujitsu_ReadBlockLock	Overloaded. This method can be used to issue a ReadBlockLock custom command as defined by the Fujitsu datasheet.
Fujitsu_Refresh	Overloaded. This method can be used to issue a Refresh custom command as defined by the Fujitsu datasheet.

 $^{^{\}rm 2}$ For the description of this class, see § Event Handling pag.107



Methods	Description
GetBufferedData	The function returns all the Tags stored in reader's memory using all
detbulleredbata	the ReadPoints belonging to the Source.
	This method can be used to retrieve the Data Exchange Status Bit
GetDESB_ISO180006B	setting (see ISO18000-6B protocol specification) used by the
	anticollision algorithm when called on this logical source.
GetName	Gets a string representing the name of the logical source.
	This method can be used to retrieve the current setting for the initial Q
GetQ_EPC_C1G2	value (see EPC Class1 Gen2 protocol specification) used by the
	anticollision algorithm when called on this logical source.
GetReadCycle	Gets the current setting for the number of read cycles performed by
	the logical source during the inventory algorithm execution.
	This method can be used to retrieve the Selected flag (see EPC Class1
GetSelected_EPC_C1G2	Gen2 protocol specification) used by the anticollision algorithm when
	called on this logical source.
	This method can be used to retrieve the Session setting (see EPC Class1
GetSession_EPC_C1G2	Gen2 protocol specification) used by the anticollision algorithm when
	called on this logical source.
	This method can be used to retrieve the Target setting (see EPC Class1
GetTarget_EPC_C1G2	Gen2 protocol specification) used by the anticollision algorithm when
	called on this logical source.
GroupSelUnsel	This method can be used to send a Group Select/Unselect command to
Groupseronser	the tag (see ISO18000-6B protocol specification).
Hitachi BlockLock	Overloaded. This method can be used to issue a BlockLock custom
THEOCH_BIOCKEOCK	command as defined by the Hitachi Hibiki datasheet.
Hitachi_BlockReadLock	Overloaded. This method can be used to issue a BlockReadLock custom
THEACH_BIOCKNEGGEOCK	command as defined by the Hitachi Hibiki datasheet.
Hitachi_GetSystemInformation	Overloaded. This method can be used to issue a GetSystemInformation
Thracin_Get3y3temmormation	custom command as defined by the Hitachi Hibiki datasheet.
Hitachi_ReadLock	Overloaded. This method can be used to issue a ReadLock custom
Tillaciii_NeadLock	command as defined by the Hitachi Hibiki datasheet.
Hitachi SetAttenuate	Overloaded. This method can be used to issue a SetAttenuate custom
Tillaciii_SetAtteildate	command as defined by the Hitachi Hibiki datasheet.
Hitachi_WriteMultipleWords	Overloaded. This method can be used to issue a WriteMultipleWords
Tilitaciii_writeividitipievvorus	custom command as defined by the Hitachi Hibiki datasheet.
	Overloaded. A call to this method will execute a read cycle on each
InventoryTag	read point linked to the logical source. Depending on the air protocol
	setting it will execute the appropriate anticollision algorithm.
isReadPointPresent	Checks if a read point is present in the logical source.
KillTag_EPC_C1G1	This method can be used to kill an EPC Class 1 Gen 1 tag.
VillTag EDC C1C2	Overloaded. This method can be used to kill an EPC of an EPC Class 1
KillTag_EPC_C1G2	Gen 2 tag.
Lock Diock Dormal ook FDC C1C2	This method implements the BLockPermaLock with ReadLock=1 as
LockBlockPermaLock_EPC_C1G2	specified in EPCC1G2 rev. 1.2.0 protocol.
LockTag EPC C1G2	Overloaded. This method can be used to lock a memory bank of an EPC
LOCKTAG_EPC_CTG2	Class 1 Gen 2 tag.
LockTag ISO190006B	This method can be used to lock a byte in the memory of a ISO18000-
LockTag_ISO180006B	6B tag.
	This method can be used to issue a ChangeEAS custom command as
NXP_ChangeEAS	defined by the NXP G2XM and G2XL datasheet after having put it in
	Secured state using the Access command.
AIVD FAC Alama	This method can be used to issue an EAS_Alarm custom command as
NXP_EAS_Alarm	defined by the NXP G2XM and G2XL datasheet.
NIVD DeadDucks -t	Overloaded. This method can be used to issue a ReadProtect custom
NXP_ReadProtect	command as defined by the NXP G2XM and G2XL datasheet.
AIVO December doces	This method can be used to issue a ResetReadProtect custom
NXP_ResetReadProtect	command as defined by the NXP G2XM and G2XL datasheet.
ProgramID EPC C1G1	This method can be used to write the EPC of an EPC Class 1 Gen 1 tag.
	Overloaded. This method can be used to write the EPC of an EPC Class
ProgramID_EPC_C1G2	1 Gen 2 tag.
	1 Gen 2 tag. This method can be used to write the UID of an EPC 1.19 tag.
ProgramID_EPC_C1G2 ProgramID_EPC119 Query_EPC_C1G2	1 Gen 2 tag. This method can be used to write the UID of an EPC 1.19 tag. This method make the reader generate an EPC Class1 Gen2 Query



Methods	Description
Wethous	This method make the reader generate a sequence of EPC Class1 Gen2
QueryAck EPC C1G2	Query and Ack commands. It can be used to read a single tag under the
,	field. If there are more than one tag under the field the method fails.
ReadBLockPermalock_EPC_C1G2	This method implements the BLockPermaLock with ReadLock=0 as
Neadblock emialock_tr C_ctG2	specified in EPCC1G2 rev. 1.2.0 protocol.
ReadTagData	This method can be used to read a portion of the user memory in a
	ISO18000-6B tag.
ReadTagData_EPC_C1G2	Overloaded. This method can be used to read a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag.
RemoveReadPoint	Removes a read point from the logical source.
Nemovenedar ome	This method can be used to reset the Session status for EPC Class1
D 16 : 500 0400	Gen2 tags. After the execution of this method all the tags in the field of
ResetSession_EPC_C1G2	the antennas belonging to this logical source are back in the default
	Session.
	This method can be used to set the Data Exchange Status Bit (see
SetDESB_ISO180006B	ISO18000-6B protocol specification) used by the anticollision algorithm
	when called on this logical source.
Sato FDC C1C2	This method can be used to set the initial Q value (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called
SetQ_EPC_C1G2	on this logical source.
	Sets the number of read cycles to be performed by the logical source
SetReadCycle	during the inventory algorithm execution.
	This method can be used to set the Session (see EPC Class1 Gen2
SetSelected_EPC_C1G2	protocol specification) used by the anticollision algorithm when called
	on this logical source.
	This method can be used to set the Session (see EPC Class1 Gen2
SetSession_EPC_C1G2	protocol specification) used by the anticollision algorithm when called
	on this logical source.
SetTarget EPC C1G2	This method can be used to set the Target setting (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called
Settanget_Er e_er ez	on this logical source.
	This method can be used to write a portion of the user memory in a
WriteTagData	ISO18000-6B tag.
WriteTagData EPC C1G2	Overloaded. This method can be used to write a portion of memory in
	a ISO18000-6C (EPC Class1 Gen2) tag.
CAENRFIDNotify Class	Deturns a timestamp representing the time at which the event was
getDate	Returns a timestamp representing the time at which the event was generated.
getReadPoint	Returns the read point that has detected the tag.
getRSSI	Returns the RSSI value measured for the tag.
getStatus	Returns the event type associated to the tag.
getTagID	Returns the tag's ID (the EPC code in Gen2 tags).
getTagLength	Returns the tag's ID length.
getTagSource	Returns the name of the logical source that has detected the tag.
getTagType	Returns the air protocol of the tag.
getTID	Returns the TID field value in a EPC Class 1 Gen 2 Tag
CAENRFIDReader Class	Charte the communication with the good of the court is a sile of the
Connect	Starts the communication with the reader. It must be called before any other call to method of the CAENBEIDBeader object
	other call to method of the CAENRFIDReader object. Closes the connection with the CAEN RFID Reader releasing all the
Disconnect	allocated resources.
GetBitRate	Gets the current setting of the RF bit rate.
GetFirmwareRelease	Permits to read the release of the firmware loaded into the device.
GetIO	Gets the current digital Input and Output lines status.
	Gets the current I/O direction setting as a bitmask. Each bit represents
GetIODirection	a I/O line, a value of 0 means that the line is configured as an input, 1
	as an output. This setting has a meaning only for those readers with
	configurable I/O lines.
GetLBTMode	Gets the current LBT mode setting. If the current regulation is based on
GetPower	the frequency hopping mechanism it returns the FH status. Gets the current setting of the RF power expressed in mW.
GetProtocol	Gets the current air protocol of the Reader.
GCG TOTOCOT	Sets the current air protocor of the neader.



Methods	Description
GetReaderInfo	Permits to read the reader information loaded into the device.
GetReadPoints	Gets the names of the read points (antennas) available in the reader.
0.10. 10.1.10.1	Gets the CAENRFIDReadPointStatus object rapresenting the status of a
GetReadPointStatus	read point (antenna).
CatDEChannal	Gets the index of the RF channel currently in use. The index value
GetRFChannel	meaning change for different country regulations.
GetRFRegulation	Gets the current RF regulation setting value.
GetSource	Gets a CAENRFIDLogicalSource object given its name
GetSourceNames	Gets the names of the logical sources available in the reader.
GetSources	Gets the CAENRFIDLogicalSource objects available on the reader.
InventoryAbort	Stops the EventInventoryTag execution.
RFControl Method	Permits to control the RF CW (Carrier Wave) signal generation.
SetBitRate	Sets the RF bit rate to use.
SetDateTime	Sets the Date/Time of the reader.
SetIO	Sets the Output lines value.
	Sets the current I/O direction setting as a bitmask. Each bit represents
SetIODIRECTION	a I/O line, a value of 0 means that the line is configured as an input, 1
SettoblikeChon	as an output. This setting has a meaning only for those readers with
	configurable I/O lines.
SetLBTMode	Sets/Resets the LBT/FH mode.
SetNetwork	Permits to configure the network settings of the reader. In order to
Setivetwork	apply the changes the reader must be restarted.
SetPower	Sets the conducted RF power of the Reader.
SetProtocol	Set the air protocol of the reader.
SetRFChannel	Sets the RF channel to use. This method fixes the RF channel only when
Setti Chamilei	the listen before talk or the frequency hopping feature is disabled.
SetRFRegulation	Sets the RF regulation setting value.
SetRS232	Permits to change the serial port settings. Valid settings values depend
3eth3232	on the reader model.
CAENRFIDReaderInfo Class	
GetModel	Gets the reader's model.
GetSerialNumber	Gets the reader's serial number.
CAENRFIDTag Class	
GetId	Returns the tag's ID (the EPC code in Gen2 tags).
GetLength	Returns the tag's ID length.
GetReadPoint	Returns the read point that has detected the tag.
GetRSSI	Returns the RSSI value measured for the tag.
GetSource	Returns the name of the logical source that has detected the tag.
GetTID	Returns the tag's TID (valid only for EPC Class 1 Gen 2 tags).
GetTimeStamp	Gets the Tag's TimeStamp.
GetType	Returns the air protocol of the tag.

Tab. 2.2: CAENRFID methods



CAENRFID Enumerations

The following enumerations are present in C# language They correspond to classes in Java language and to enumerations and data types in C language:

Enumerations	Description
BitRate	Gives a list of the supported radiofrequency profiles.
LogicalSourceConstants	Gives a list of constants used for the configuration of the logical sources. Detailed explanation of the settings can be found in the EPC Class 1 Gen 2 and ISO 18000-6B specification documents.
Port	Gives a list of the communication ports supported by the CAEN RFID readers.
Protocol	Gives a list of the air protocol supported by the CAEN RFID readers.
ReadPointStatus	Gives a list of the possible ReadPoint status values.
RFRegulations	Gives a list of country radiofrequency regulations.
RS232Constants	Gives a list of settings for the serial port configuration.
SelUnselOptions	Gives a list of operations supported by the Group Select/Unselect command (valid only for the ISO18000-6B air protocol).

Tab. 2.3: CAENRFID Enumerations



3 Classes Description

This chapter gives a description of CAENRFID methods divided into classes. It contains these topics:

- CAENRFIDException Class
- CAENRFIDLogicalSource Class
- CAENRFIDNotify Class
- CAENRFIDReader Class
- CAENRFIDReaderInfo Class
- CAENRFIDTag Class





CAENRFIDException Class

The CAENRFIDException class defines the CAEN RFID exceptions.

getError Method

Description:

This method gets the error string associated to the exception.

Return value:

The string representing the error.

Syntax:

C# representation:

public string getError()

JAVA representation:

Remarks:

This function does not exist in C language, see § Error Handling pag. 7 for more informations.



CAENRFIDLogicalSource Class

The CAENRFIDLogicalSource class is used to create logical source objects. Logical source objects represent an aggregation of read points (antennas). Operations on the tags are performed using methods belonging to the logical source. In addition to the methods used to operate on the tags, the logical source class exports methods to configure the anticollision algorithm and to configure the composition of the logical source itself.

AddReadPoint Method

Description:

This method adds a read point to the logical source.

Parameters:

Name	Description
ReadPoint	A string representing the name of the read point (antenna).

Syntax:

C# representation:

public void AddReadPoint(

string ReadPoint)

JAVA representation:

public void AddReadPoint(

java.lang.String ReadPoint)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_AddReadPoint(

CAENRFIDHandle handle, char *SourceName, char *ReadPoint);



BlockWriteTagData Method

BlockWriteTagData Method (CAENRFIDTag, Int16, Int16, Byte[])

Description:

This method can be used to write a portion of the user memory in a ISO18000-6B tag using blocks of four bytes for each command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	The data to be written into the tag's user memory.

Syntax:

C# representation:

CAENRFIDTag Tag,
short Address,
short Length,
byte[] Data)

JAVA representation:

CAENRFIDTag Tag,
short Address,
short Length,
byte[] Data)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_BlockWriteTagData(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
int Address,
int Length,
void *Data);



BlockWriteTagData Method (CAENRFIDTag, Int16, Int16, Int16, Byte[])

Description:

This method can be used to write a portion of the user memory in a ISO18000-6B tag using blocks of four bytes for each command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
Address	The address where to start writing the data.
Mask	A bitmask that permit to select which of the four bytes have to be written (i.e. mask
IVIdSK	0x05 write the bytes on position Address + 1 and Address + 3).
Length	The number of byte to be written.
Data	The data to be written into the tag's user memory.

Syntax:

C# representation:

public void	BlockWriteTagData(
	CAENRFIDTag	Tag,
	short	Address,
	short	Mask,
	short	Length,
	byte[]	Data)

JAVA representation:

public	void	BlockWriteTagData(
PUDITIC	VOIG	DIOCKWIICEIAGDACA (

CAENRFIDTag Tag,
short Address,
short Mask,
short Length,
byte[] Data)
throws CAENRFIDException

${\it C\ representation:}$

```
{\tt CAENRFIDErrorCodes} \quad {\tt CAENRFID\_FilterBlockWriteTagData(}
```

CAENRFIDHandle handle,
CAENRFIDTag *ID,
int Address,
short Mask,
int Length,
void *Data);



CustomCommand_EPC_C1G2 Method

CustomCommand_EPC_C1G2 Method (CAENRFIDTag, Byte, Int16, Byte[], Int16)

Description:

This method can be used to issue a generic Custom command as defined by the EPC Class1 Gen2 protocol specification. The parameters are used to specify the type of the custom command and its parameters.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to which send the Custom command.
SubCmd	The SubCommand field of the Custom command.
TxLen	The length of the data to be sent to the tag.
Data	The data to be sent to the tag.
RxLen	The length of the data to be received by the tag.

Return value:

An array of bytes representing the reply from the tag as specified by the custom command.

Syntax:

C# representation:

<pre>public byte[]</pre>	CustomCommand EPC C1G2(
	CAENRFIDTag	Tag,
	byte	SubCmd,
	short	TxLen,
	byte[]	Data,
	short	RxLen)

JAVA representation:

epresentation		
<pre>public byte[]</pre>	CustomCommand_EPC_C1G2(
	CAENRFIDTag	Tag,
	byte	SubCmd,
	short	TxLen,
	byte[]	Data,
	short	RxLen)
	throws CAENRFIDE	xception

C representation:

CAENRFIDErrorCodes	CAENRFID_CustomCommand_EPC_C	C1G2(
	CAENRFIDHandle	handle,
	CAENRFIDTag	*Tag,
	unsigned char	SubCmd,
	int	TxLen,
	void	*Data,
	int	RxLen,
	void	*TRData);



CustomCommand_EPC_C1G2 Method (CAENRFIDTag, Byte, Int16, Byte[], Int16, Int32)

Description:

This method can be used to issue a generic Custom command as defined by the EPC Class1 Gen2 protocol specification. The parameters are used to specify the type of the custom command and its parameters. The Custom command is executed after an Access command to switch the tag in the Secured state using the provided password.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to select.
SubCmd	The SubCommand field of the Custom command.
TxLen	The length of the data to be sent to the tag.
Data	The data to be sent to the tag.
RxLen	The length of the data to be received by the tag.
AccessPassword	The access password.

Return value:

An array of bytes representing the reply from the tag as specified by the custom command.

Syntax:

C# representation:

<pre>public byte[]</pre>	CustomCommand_EPC_C1G2(
	CAENRFIDTag	Tag,
	byte	SubCmd,
	short	TxLen,
	byte[]	Data,
	short	RxLen,
	int	AccessPassword)

JAVArepresentation:

AVArepresentation:		
<pre>public byte[]</pre>	CustomCommand_EPC_C1G2(
	CAENRFIDTag	Tag,
	byte	SubCmd,
	short	TxLen,
	byte[]	Data,
	short	RxLen,
	int	AccessPassword)
	throws CAENRFIDE	xception

C representation:

CAENRFIDErrorCodes	CAENRFID_SecureCustomCommand_	EPC_C1G2(
	CAENRFIDHandle	handle,
	CAENRFIDTag	*Tag,
	unsigned char	SubCmd,
	int	TxLen,
	void	*Data,
	int	RxLen,
	int	AccessPassword,
	void	*TRData);

EventInventoryTag Method

For the description of this method, see § Event Handling pag.108.



Fujitsu_BurstErase Method

Fujitsu_BurstErase Method (CAENRFIDTag, Byte, Int16, Byte)

Description:

This method can be used to issue a BurstErase custom command as defined by the Fujitsu datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
MemBank	The memory bank where to erase the data.
Address	The address where to erase the data.
Length	The number of byte to be erased.

Return value:

A byte representing the "Write-locked" response of the tag.

Syntax:

C# representation:

public byte Fujitsu_BurstErase(

CAENRFIDTag Tag,
byte MemBank,
short Address,
byte Length)

JAVA representation:

public byte Fujitsu_BurstErase(

CAENRFIDTag Tag,
byte MemBank,
short Address,
byte Length)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_BurstErase(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char MemBank,
short Address,
char Length,
char *TRData);



Fujitsu_BurstErase Method (CAENRFIDTag, Byte, Int16, Byte, Int32)

Description:

This method can be used to issue a BurstErase custom command as defined by the Fujitsu datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
MemBank	The memory bank where to erase the data.
Address	The address where to erase the data.
Length	The number of byte to be erased.
AccessPassword	The access password.

Return value:

A byte representing the "Write-locked" response of the tag.

Syntax:

C# representation:

public byte Fujitsu_BurstErase(

CAENRFIDTag Tag,
byte MemBank,
short Address,
byte Length,

int AccessPassword)

JAVA representation:

public byte Fujitsu BurstErase(

CAENRFIDTag Tag,
byte MemBank,
short Address,
byte Length,

int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_SecureBurstErase(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char MemBank,
short Address,
char Length,
char *TRData,

int AccessPassword);



Fujitsu_BurstWrite Method

Fujitsu_BurstWrite Method (CAENRFIDTag, Byte, Int16, Byte, Byte[])

Description:

This method can be used to issue a BurstWrite custom command as defined by the Fujitsu datasheet.

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.

Return value:

A byte representing the "Write-locked" response of the tag.

Syntax:

C# representation:

public byte	Fujitsu_BurstWrite(CAENRFIDTag byte short byte byte[]	Tag, MemBank, Address, Length, Data)
JAVA representation:		
public byte	Fujitsu_BurstWrite(CAENRFIDTag byte short byte byte[] throws CAENRFIDE:	Tag, MemBank, Address, Length, Data)

C representation:

CAENRFIDErrorCodes	CAENRFID Fujitsu BurstWrite(
	CAENRFIDHandle	handle,
	CAENRFIDTag	*Tag,
	char	MemBank,
	short	Address,
	char	Length,
	char	*Data,
	char	*TRData);

throws CAENRFIDException



Fujitsu_BurstWrite Method (CAENRFIDTag, Byte, Int16, Byte, Byte[], Int32)

Description:

This method can be used to issue a BurstWrite custom command as defined by the Fujitsu datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.
AccessPassword	The access password.

Return value:

A byte representing the "Write-locked" response of the tag.

Syntax:

C# representation:

CAENRFIDTag Tag,
byte MemBank,
short Address,
byte Length,
byte[] Data,

int AccessPassword)

JAVA representation:

public byte Fujitsu_BurstWrite(

CAENRFIDTag Tag,
byte MemBank,
short Address,
byte Length,
byte[] Data,

int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_SecureBurstWrite(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char MemBank,
short Address,
char Length,
char *Data,
char *TRData,

int AccessPassword);



Fujitsu_ChgBlockGroupPassword Method

Fujitsu_ChgBlockGroupPassword Method (CAENRFIDTag, Byte, Int32, Int32)

Description:

This method can be used to issue a ChgBlockGroupPassword custom command as defined by the Fujitsu datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
BlockGroupPtr	The BlockGroupPtr parameter as defined by the Fujitsu datasheet.
NewPassword	The new password to set.
OldPassword	The current password.

Syntax:

C# representation:

public void Fujitsu_ChgBlockGroupPassword(

CAENRFIDTag Tag,
byte BlockGroupPtr, NewPassword, int int OldPassword)

JAVA representation:

public void Fujitsu_ChgBlockGroupPassword(

CAENRFIDTag Tag,

byte BlockGroupPtr, int NewPassword, int OldPassword)

throws CAENRFIDException

C representation:

 ${\tt CAENRFID_Fujitsu_ChgBlockGroupPassword()}\\$

CAENRFIDHandle handle, CAENRFIDTag *Tag,

BlockGroupPtr, char int NewPassword, int OldPassword);



Fujitsu_ChgBlockGroupPassword Method (CAENRFIDTag, Byte, Int32, Int32, Int32)

Description:

This method can be used to issue a ChgBlockGroupPassword custom command as defined by the Fujitsu datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
BlockGroupPtr	The BlockGroupPtr parameter as defined by the Fujitsu datasheet.
NewPassword	The new password to set.
OldPassword	The current password.
AccessPassword	The access password.

Syntax:

C# representation:

byte BlockGroupPtr,
int NewPassword,
int OldPassword,
int AccessPassword)

JAVA representation:

public void Fujitsu_ChgBlockGroupPassword(

CAENRFIDTag Tag,

byte BlockGroupPtr,
int NewPassword,
int OldPassword,
int AccessPassword)

throws CAENRFIDException

C representation:

 ${\tt CAENRFIDErrorCodes} \quad {\tt CAENRFID_Fujitsu_SecureChgBlockGroupPassword(CAENRFID_Fujitsu_SecureChgBlockGroup$

CAENRFIDHandle handle, CAENRFIDTag *Tag,

char
int
 NewPassword,
int
 OldPassword,
int
 AccessPassword);



Fujitsu_ChgBlockLock Method

Fujitsu_ChgBlockLock Method (CAENRFIDTag, Byte, Int32, Int32)

Description:

This method can be used to issue a ChgBlockLock custom command as defined by the Fujitsu datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
BlockGroupPtr	The BlockGroupPtr parameter as defined by the Fujitsu datasheet.
Payload	The Payload parameter as defined by the Fujitsu datasheet.
UserPassword	The Password parameter as defined by the Fujitsu datasheet.

Syntax:

C# representation:

public void Fujitsu_ChgBlockLock(

CAENRFIDTag Tag,

byte BlockGroupPtr, int Payload, int UserPassword)

JAVA representation:

public void Fujitsu_ChgBlockLock(

CAENRFIDTag Tag,

byte BlockGroupPtr,
int Payload,
int UserPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_ChgBlockLock(

CAENRFIDHandle handle, CAENRFIDTag *Tag,

char BlockGroupPtr,

int Payload,

int UserPassword);



Fujitsu_ChgBlockLock Method (CAENRFIDTag, Byte, Int32, Int32, Int32)

Description:

This method can be used to issue a ChgBlockLock custom command as defined by the Fujitsu datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
BlockGroupPtr	The BlockGroupPtr parameter as defined by the Fujitsu datasheet.
Payload	The Payload parameter as defined by the Fujitsu datasheet.
UserPassword	The Password parameter as defined by the Fujitsu datasheet.
AccessPassword	The access password.

Syntax:

C# representation:

byte BlockGroupPtr,
int Payload,
int UserPassword,
int AccessPassword)

JAVA representation:

public void Fujitsu_ChgBlockLock(

CAENRFIDTag Tag,

byte BlockGroupPtr,
int Payload,
int UserPassword,
int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_SecureChgBlockLock(

CAENRFIDHandle handle, CAENRFIDTag *Tag,

char BlockGroupPtr,

int Payload,

int UserPassword,
int AccessPassword);



Fujitsu_ChgWordLock Method

Fujitsu_ChgWordLock Method (CAENRFIDTag, Byte, Int16, Byte, Int32)

Description:

This method can be used to issue a ChgWordLock custom command as defined by the Fujitsu datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
MemBank	The memory bank (only user memory is valid).
WordPtr	The WordPtr parameter as defined by the Fujitsu datasheet.
Payload	The Payload parameter as defined by the Fujitsu datasheet.
UserPassword	The Password parameter as defined by the Fujitsu datasheet.

Syntax:

C# representation:

byte Payload, int UserPassword)

JAVA representation:

public void Fujitsu_ChgWordLock(

CAENRFIDTag Tag,
byte MemBank,
short WordPtr,
byte Payload,
int UserPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_ChgWordLock(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char MemBank,
short WordPtr,
char Payload,

int UserPassword);



Fujitsu_ChgWordLock Method (CAENRFIDTag, Byte, Int16, Byte, Int32, Int32)

Description:

This method can be used to issue a ChgWordLock custom command as defined by the Fujitsu datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
MemBank	The memory bank (only user memory is valid).
WordPtr	The WordPtr parameter as defined by the Fujitsu datasheet.
Payload	The Payload parameter as defined by the Fujitsu datasheet.
UserPassword	The Password parameter as defined by the Fujitsu datasheet.
AccessPassword	The access password.

Syntax:

C# representation:

JAVA representation:

CAENRFIDTag Tag,
byte MemBank,
short WordPtr,
byte Payload,
int UserPassword,
int AccessPassword)

throws CAENRFIDException

C representation:



Fujitsu_ReadBlockLock Method

Fujitsu_ReadBlockLock Method (CAENRFIDTag, Byte)

Description:

This method can be used to issue a ReadBlockLock custom command as defined by the Fujitsu datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
BlockGroupPtr	The BlockGroupPtr parameter as defined by the Fujitsu datasheet.

Return value:

An array of bytes representing the BlockLockFlag of the tag.

Syntax:

C# representation:

public byte[] Fujitsu_ReadBlockLock(

CAENRFIDTag Tag,

byte BlockGroupPtr)

JAVA representation:

public byte[] Fujitsu_ReadBlockLock(

CAENRFIDTag Tag,

byte BlockGroupPtr)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_ReadBlockLock(

CAENRFIDHandle handle, CAENRFIDTag *Tag,

char BlockGroupPtr,
char *TRData);



Fujitsu_ReadBlockLock Method (CAENRFIDTag, Byte, Int32)

Description:

This method can be used to issue a ReadBlockLock custom command as defined by the Fujitsu datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
BlockGroupPtr	The BlockGroupPtr parameter as defined by the Fujitsu datasheet.
AccessPassword	The access password.

Return value:

An array of bytes representing the BlockLockFlag of the tag.

Syntax:

C# representation:

public byte[] Fujitsu_ReadBlockLock(

CAENRFIDTag Tag,

byte BlockGroupPtr, int AccessPassword)

JAVA representation:

public byte[] Fujitsu_ReadBlockLock(

CAENRFIDTag Tag,

byte BlockGroupPtr, int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_SecureReadBlockLock(

CAENRFIDHandle handle, CAENRFIDTag *Tag,

char BlockGroupPtr,

char *TRData,

int AccessPassword);



Fujitsu_Refresh Method

Fujitsu_Refresh Method (CAENRFIDTag, Byte)

Description:

This method can be used to issue a Refresh custom command as defined by the Fujitsu datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
Option	The option parameter as defined by the Fujitsu datasheet.

Syntax:

C# representation:

public void Fujitsu Refresh(

CAENRFIDTag Tag, byte Option)

JAVA representation:

public void Fujitsu_Refresh(

CAENRFIDTag Tag,
byte Option)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_Refresh(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char Option);

Fujitsu_Refresh Method (CAENRFIDTag, Byte, Int32)

Description:

This method can be used to issue a Refresh custom command as defined by the Fujitsu datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
Option	The option parameter as defined by the Fujitsu datasheet.
AccessPassword	The access password.

Syntax:

C# representation:

public void Fujitsu_Refresh(

CAENRFIDTag Tag, byte Option,

int AccessPassword)

 ${\it JAVA\ representation:}$

public void Fujitsu Refresh(

CAENRFIDTag Tag, byte Option,

int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Fujitsu_SecureRefresh(

CAENRFIDHandle handle, CAENRFIDTag *Tag, char Option,

int AccessPassword);



GetBufferedData Method

Description:

This method returns all the Tags stored in reader's buffer using all the ReadPoints belonging to the Source. Only on A828BT.

Return value:

An array of CAENRFIDTag objects detected.

Syntax:

C# representation:

public CAENRFIDTag[] GetBufferedData()

JAVA representation:

public CAENRFIDTag[] GetBufferedData()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID GetBufferedData(

CAENRFIDHandle handle, char *source, CAENRFIDTag **Receive, int *Size);

GetDESB_ISO180006B Method

Description:

This method can be used to retrieve the Data Exchange Status Bit setting (see ISO18000-6B protocol specification) used by the anticollision algorithm when called on this logical source.

Return value:

The current DESB setting value.

Syntax:

C# representation:

public CAENRFIDLogicalSourceConstants GetDESB_ISO180006B()

JAVA representation:

C representation:

CAENRFIDErrorCodes GetDESB ISO180006B(

CAENRFIDHandle handle, unsigned short *Status);



GetName Method

Description:

This method gets a string representing the name of the logical source.

Return value:

A string representing the name of the logical source.

Syntax:

C# representation:

Remarks:

This function does not exist in C language, see § Overview on SDK pag. 7 for more informations.

GetQ_EPC_C1G2 Method

Description:

This method can be used to retrieve the current setting for the initial Q value (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Return value:

The current initial Q value setting.

Syntax:

C# representation:

public int GetQ_EPC_C1G2()

throws CAENRFIDException

C representation:



GetReadCycle Method

Description:

This method gets the current setting for the number of read cycles performed by the logical source during the inventory algorithm execution.

ReadCycle affects only inventory performed with continuos mode (see EventInventoryTag method).

Return value:

The number of read cycles.

Syntax:

C# representation:

JAVA representation:

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID GetReadCycle(

CAENRFIDHandle handle, char *SourceName, int *value);

GetSelected_EPC_C1G2 Method

Description:

This method can be used to retrieve the Selected flag (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Return value:

The current Selected value

Syntax:

C# representation:

JAVA representation:

C representation:



GetSession_EPC_C1G2 Method

Description:

This method can be used to retrieve the Session setting (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Return value:

The current Session value setting.

Syntax:

C# representation:

JAVA representation:

C representation:

GetTarget_EPC_C1G2 Method

Description:

This method can be used to retrieve the Target setting (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Return value:

The current Target value setting.

Syntax:

C# representation:

JAVA representation:

C representation:



GroupSelUnsel Method

Description:

This method can be used to send a Group Select/Unselect command to the tag (see ISO18000-6B protocol specification).

Parameters:

Name	Description
Code	The operation code as defined by the protocol.
Address	The Address from which start the comparison.
BitMask	The bit mask to use.
Data	The data to be compared.

Return value:

The selected tag.

Syntax:

C# representation:

public CAENRFIDTag GroupSelUnsel(

CAENRFIDSelUnselOptions Code, short Address, short BitMask, byte[] Data)

JAVA representation:

public CAENRFIDTag GroupSelUnsel(

CAENRFIDSelUnselOptions Code, short Address, short BitMask, byte[] Data) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_GroupSelUnsel(

CAENRFIDHandle handle,
char *SourceName,
CAENRFID_SelUnsel_Op Code,
int Address,
int BitMask,
void *Data,
CAENRFIDTag *Tag);



Hitachi_BlockLock Method

Hitachi_BlockLock Method (CAENRFIDTag, Byte, Int32, Byte)

Description:

This method can be used to issue a BlockLock custom command as defined by the Hitachi Hibiki datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to select.
BlockNum	The index of the memory block to be locked.
UserPassword	The user password.
Payload	The Payload parameter for the BlockLock custom command as defined by Hitachi Hibiki
	datasheet.

Syntax:

C# representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload)

JAVA representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Hitachi_BlockLock(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char BlockNum,
int UserPassword,
char Payload);



Hitachi_BlockLock Method (CAENRFIDTag, Byte, Int32, Byte, Int32)

Description:

This method can be used to issue a BlockLock custom command as defined by the Hitachi Hibiki datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to select.
BlockNum	The index of the memory block to be locked.
UserPassword	The user password.
Payload	The Payload parameter for the BlockLock custom command as defined by Hitachi Hibiki datasheet.
AccessPassword	The access password.

Syntax:

C# representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload,

int AccessPassword)

JAVA representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload,
int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Hitachi_SecureBlockLock(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char BlockNum,
int UserPassword,
char Payload,



Hitachi_BlockReadLock Method

Hitachi_BlockReadLock Method (CAENRFIDTag, Byte, Int32, Byte)

Description:

This method can be used to issue a BlockReadLock custom command as defined by the Hitachi Hibiki datasheet.

Parameters

Name	Description
Tag	The CAENRFIDTag representing the tag to select.
BlockNum	The index of the memory block to be locked.
UserPassword	The user password.
Payload	The Payload parameter for the BlockReadLock custom command as defined by Hitachi
	Hibiki datasheet.

Syntax:

C# representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload)

JAVA representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload)
throws CAENRFIDException

C representation:

 ${\tt CAENRFIDErrorCodes CAENRFID_Hitachi_BlockReadLock(}$

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
byte BlockNum,
int UserPassword,
byte Payload);



Hitachi_BlockReadLock Method (CAENRFIDTag, Byte, Int32, Byte, Int32)

Description:

This method can be used to issue a BlockReadLock custom command as defined by the Hitachi Hibiki datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to select.
BlockNum	The index of the memory block to be locked.
UserPassword	The user password.
Payload	The Payload parameter for the BlockReadLock custom command as defined by Hitachi Hibiki datasheet.
AccessPassword	The access password.

Syntax:

C# representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload,

int AccessPassword)

JAVA representation:

CAENRFIDTag Tag,
byte BlockNum,
int UserPassword,
byte Payload,
int AccessPassword)

throws CAENRFIDException

${\it C\ representation:}$

 ${\tt CAENRFIDErrorCodes} \quad {\tt CAENRFID_Hitachi_SecureBlockReadLock} \ ($

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
byte BlockNum,
int UserPassword,
byte Payload,



Hitachi_GetSystemInformation Method

Hitachi_GetSystemInformation Method (CAENRFIDTag)

Description:

This method can be used to issue a GetSystemInformation custom command as defined by the Hitachi Hibiki datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.

Return value:

The command response as defined by the Hitachi Hibiki datasheet.

Syntax:

C# representation:

JAVA representation:

public HitachiSysInfo Hitachi GetSystemInformation(

CAENRFIDTag Tag) throws CAENRFIDException

C representation:

Hitachi_GetSystemInformation Method (CAENRFIDTag, Int32)

Description:

This method can be used to issue a GetSystemInformation custom command as defined by the Hitachi Hibiki datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
AccessPassword	The access password.

Return value.

The command response as defined by the Hitachi Hibiki datasheet.

Syntax:

C# representation:

int AccessPassword)

JAVA representation:

 $\begin{array}{ccc} \text{public HitachiSysInfo} & \text{Hitachi_GetSystemInformation(} \\ & \text{CAENRFIDTag} & \text{Tag,} \end{array}$

int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Hitachi_SecureGetSystemInformation(

CAENRFIDHandle handle, CAENRFIDTag *Tag, char *TRData,



Hitachi_ReadLock Method

Hitachi_ReadLock Method (CAENRFIDTag, Int16)

Description:

This method can be used to issue a ReadLock custom command as defined by the Hitachi Hibiki datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to select.
Payload	The Payload parameter for the ReadLock custom command as defined by Hitachi Hibiki datasheet.

Syntax:

C# representation:

CAENRFIDTag Tag, short Payload)

JAVA representation:

CAENRFIDTag Tag, short Payload) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID Hitachi ReadLock(

CAENRFIDHandle handle, CAENRFIDTag *Tag, short Payload);

Hitachi_ReadLock Method (CAENRFIDTag, Int16, Int32)

Description:

This method can be used to issue a ReadLock custom command as defined by the Hitachi Hibiki datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to select.
Payload	The Payload parameter for the ReadLock custom command as defined by Hitachi Hibiki
	datasheet.
AccessPassword	The access password.

Syntax:

C# representation:

CAENRFIDTag Tag, short Payload,

int AccessPassword)

JAVA representation:

CAENRFIDTag Tag, short Payload, int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID Hitachi SecureReadLock(

CAENRFIDHandle handle, CAENRFIDTag *Tag, short Payload,



Hitachi_SetAttenuate Method

Hitachi_SetAttenuate Method (CAENRFIDTag, Byte, Boolean)

Description:

This method can be used to issue a SetAttenuate custom command as defined by the Hitachi Hibiki datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
Level	The level of attenuation.
LevelLock	A flag that permit to lock permanently the attenuation level.

Syntax:

C# representation:

public void Hitachi_SetAttenuate(

CAENRFIDTag Tag,
byte Level,
bool LevelLock)

JAVA representation:

CAENRFIDTag Tag,
byte Level,
boolean LevelLock)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID Hitachi SetAttenuate(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char Level,
char LevelLock);



Hitachi_SetAttenuate Method (CAENRFIDTag, Byte, Boolean, Int32)

Description:

This method can be used to issue a SetAttenuate custom command as defined by the Hitachi Hibiki datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be selected.
Level	The level of attenuation.
LevelLock	A flag that permit to lock permanently the attenuation level.
AccessPassword	The access password.

Syntax:

C# representation:

CAENRFIDTag Tag,
byte Level,
bool LevelLock,
int AccessPassword)

JAVA representation:

CAENRFIDTag Tag,
byte Level,
boolean LevelLock,
int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Hitachi_SecureSetAttenuate(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char Level,
char LevelLock,



Hitachi_WriteMultipleWords Method

Hitachi_WriteMultipleWords Method (CAENRFIDTag, Int16, Int16, Int16, Byte[])

Description:

This method can be used to issue a WriteMultipleWords custom command as defined by the Hitachi Hibiki datasheet.

Parameters

Name	Description
Tag	The CAENRFIDTag representing the tag to select.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.

Syntax:

C# representation:

JAVA representation:

public void Hitachi_WriteMultipleWords(

CAENRFIDTag Tag,
short MemBank,
short Address,
byte Length,
byte[] Data)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID Hitachi WriteMultipleWords(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
short MemBank,
short Address,
short Length,
char *Data);



Hitachi_WriteMultipleWords Method (CAENRFIDTag, Int16, Int16, Int16, Byte[], Int32)

Description:

This method can be used to issue a WriteMultipleWords custom command as defined by the Hitachi Hibiki datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to select.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.
AccessPassword	The access password.

Syntax:

C# representation:

int AccessPassword)

JAVA representation:

public void Hitachi WriteMultipleWords(

CAENRFIDTag Tag,
short MemBank,
short Address,
byte Length,
byte[] Data,
int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_Hitachi_SecureWriteMultipleWords(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
short MemBank,
short Address,
short Length,
char *Data,



InventoryTag Method

InventoryTag Method ()

Description:

A call to this method will execute a read cycle on each read point linked to the logical source. Depending on the air protocol setting it will execute the appropriate anticollision algorithm.

Return value:

An array containing the CAENRFIDTag objects representing the tags read from the read points.

Syntax:

C# representation:

public CAENRFIDTag[] InventoryTag()

JAVA representation:

public CAENRFIDTag[] InventoryTag()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_InventoryTag (

CAENRFIDHandle handle,
char *SourceName,
CAENRFIDTag **Receive,
int *Size);



InventoryTag Method (Byte[], Int16, Int16)

Description:

A call to this method will execute a read cycle on each read point linked to the logical source.

Parameters:

Name	Description
Mask	A byte array representing the bitmask to apply.
MaskLength	A value representing the bit-oriented length of the bitmask.
Position	A value representing the first bit of ID where the match will start.

Return value:

An array containing the CAENRFIDTag objects representing the tags read from the read points.

Syntax:

C# representation:

```
InventoryTag(
   public CAENRFIDTag[]
                                  byte[]
                                                       Mask.
                                  short
                                                       MaskLength,
                                  short
                                                       Position)
JAVA representation:
   public CAENRFIDTag[]
                            InventoryTag(
                                  byte[]
                                                       Mask,
                                  short
                                                       MaskLength,
                                                       Position)
                                  short
                                  throws CAENRFIDException
C representation:
   CAENRFIDErrorCodes CAENRFID FilteredInventoryTag(
```


Remarks:

Depending on the air protocol setting it will execute the appropriate anticollision algorithm. This version of the method permits to specify a bitmask for filtering tag's populations as described by the EPC Class1 Gen2 (ISO18000-6C) air protocol. The filtering will be performend on the memory bank specified by bank parameter, starting at the bit indicated by the Position index and for a MaskLength length. The method will return only the tags that matches the given Mask. Passing a zero value for MaskLength it performs as the non-filtering InventoryTag method.



InventoryTag Method (Byte[], Int16, Int16, Int16)

Description:

A call to this method will execute a read cycle on each read point linked to the logical source.

Parameters:

Name	Description
Mask	A byte array representing the bitmask to apply.
MaskLength	A value representing the bit-oriented length of the bitmask.
Position	A value representing the first bit of ID where the match will start.
Flag	A bitmask representing the InventoryTag options.

Return value:

An array containing the CAENRFIDTag objects representing the tags read from the read points.

Syntax:

C# representation:

<pre>public CAENRFIDTag[]</pre>	InventoryTag(byte[] short short short	Mask, MaskLength, Position, Flag)
JAVA representation:		
<pre>public CAENRFIDTag[]</pre>	<pre>InventoryTag(byte[] short short short</pre>	Mask, MaskLength, Position, Flag)

C representation:

throws CAENRFIDException



Remarks:

Depending on the air protocol setting it will execute the appropriate anticollision algorithm. This version of the method permits to specify a bitmask for filtering tag's populations as described by the EPC Class1 Gen2 (ISO18000-6C) air protocol. The filtering will be performend on the memory bank specified by bank parameter, starting at the bit indicated by the Position index and for a MaskLength length. The method will return only the tags that matches the given Mask. Passing a zero value for MaskLength it performs as the non-filtering InventoryTag method. The Flags parameter permits to set InventoryTag method's options.In this case bit 1 and 2 of the flag (continuos and framed mode) are ignored.

Flag value meaning		
Bit 0	RSSI: a 1 value indicates the reader will transmit the RSSI (Return Signal Strength Indicator) in the response.	
Bit 1	Framed data: a 1 value indicates that the tag's data will be transmitted by the reader to the PC as soon as the tag is detected, a 0 value means that all the tags detected are buffered in the reader and trasmitted all together at the end of the inventory cycle.	
Bit 2	Continuous acquisition: a 1 value indicates that the inventory cycle is repeated by the reader depending on the SetReadCycle setting value, a 0 value means that only one inventory cycle will be performed. If the continuous mode is selected a 0 value in the ReadCycle setting will instruct the reader to repeat the inventory cycle until an InventoryAbort method is invoked, a value X different from 0 means that the inventory cycle will be performed X times by the reader.	
Bit 3	Compact data: a 1 value indicates that only the EPC of the tag will be returned by the reader, a 0 value indicates that the complete data will be returned. In case that the compact option is enabled all the other data will be populated by this library with fakes values.	
Bit 4	TID reading: a 1 value indicates that also the TID of the tag will be returned by the reader together with the other informations.	



Position)

InventoryTag Method (Int16, Byte[], Int16, Int16)

Description:

A call to this method will execute a read cycle on each read point linked to the logical source.

Parameters:

Name	Description
bank	A value representing the memory bank where apply the filter.
Mask	A byte array representing the bitmask to apply.
MaskLength	A value representing the bit-oriented length of the bitmask.
Position	A value representing the first bit of ID where the match will start.

Return value:

JΑ

An array containing the CAENRFIDTag objects representing the tags read from the read points.

Syntax:

C# representation:

<pre>public CAENRFIDTag[]</pre>	InventoryTag(short byte[] short short	bank, Mask, MaskLength, Position)
VA representation:		
<pre>public CAENRFIDTag[]</pre>	<pre>InventoryTag(short byte[] short</pre>	bank, Mask, MaskLength,

C representation:

```
CAENRFIDErrorCodes CAENRFID BankFilteredInventoryTag (
                              CAENRFIDHandle handle,
                              char
                                                  *SourceName,
                              short
                                                 bank,
                                                 Position,
                              short
                              short
                                                 MaskLength,
                              char
                                                  *Mask,
                                                  **<u>Receive</u>,
                              CAENRFIDTag
                                                  *Size);
                              int
```

short

throws CAENRFIDException

Remarks:

Depending on the air protocol setting it will execute the appropriate anticollision algorithm. This version of the method permits to specify a bitmask for filtering tag's populations as described by the EPC Class1 Gen2 (ISO18000-6C) air protocol. The filtering will be performend on the memory bank specified by bank parameter, starting at the bit indicated by the Position index and for a MaskLength length. The method will return only the tags that matches the given Mask. Passing a zero value for MaskLength it performs as the non-filtering InventoryTag method.



InventoryTag Method (Int16, Byte[], Int16, Int16, Int16)

Description:

A call to this method will execute a read cycle on each read point linked to the logical source.

Parameters:

Name	Description
bank	A value representing the memory bank where apply the filter.
Mask	A byte array representing the bitmask to apply.
MaskLength	A value representing the bit-oriented length of the bitmask.
Position	A value representing the first bit of ID where the match will start.
Flag	A bitmask representing the InventoryTag options.

Return value:

An array containing the CAENRFIDTag objects representing the tags read from the read points.

Syntax:

C# representation:

<pre>InventoryTag(</pre>	
short	bank,
byte[]	Mask,
short	MaskLength,
short	Position,
short	Flag)
	short byte[] short short

JAVA representation:

C representation:

```
CAENRFIDErrorCodes CAENRFID_BankFilteredFlagInventoryTag (
                              CAENRFIDHandle handle,
                              char
                                                  *SourceName,
                              short
                                                bank,
                              short
                                                  Position,
                              short
                                                  MaskLength,
                                                  *Mask,
                              char
                              unsigned char
CAENRFIDTag
                                                Flag,
                                                  **Receive,
                                                  *Size);
                              int
```



Remarks:

Depending on the air protocol setting it will execute the appropriate anticollision algorithm. This version of the method permits to specify a bitmask for filtering tag's populations as described by the EPC Class1 Gen2 (ISO18000-6C) air protocol. The filtering will be performend on the memory bank specified by bank parameter, starting at the bit indicated by the Position index and for a MaskLength length. The method will return only the tags that matches the given Mask. Passing a zero value for MaskLength it performs as the non-filtering InventoryTag method. The Flags parameter permits to set InventoryTag method's options.In this case bit 1 and 2 of the flag (continuos and framed mode) are ignored.

Flag valu	Flag value meaning		
Bit 0	RSSI: a 1 value indicates the reader will transmit the RSSI (Return Signal Strength Indicator) in the response.		
Bit 1	Framed data: a 1 value indicates that the tag's data will be transmitted by the reader to the PC as soon as the tag is detected, a 0 value means that all the tags detected are buffered in the reader and trasmitted all together at the end of the inventory cycle.		
Bit 2	Continuous acquisition: a 1 value indicates that the inventory cycle is repeated by the reader depending on the SetReadCycle setting value, a 0 value means that only one inventory cycle will be performed. If the continuous mode is selected a 0 value in the ReadCycle setting will instruct the reader to repeat the inventory cycle until an InventoryAbort method is invoked, a value X different from 0 means that the inventory cycle will be performed X times by the reader.		
Bit 3	Compact data: a 1 value indicates that only the EPC of the tag will be returned by the reader, a 0 value indicates that the complete data will be returned. In case that the compact option is enabled all the other data will be populated by this library with fakes values.		
Bit 4	TID reading: a 1 value indicates that also the TID of the tag will be returned by the reader together with the other informations.		

FreeTagsMemory

Description:

The function permits to free the allocated memory by CAENRFID InventoryTag.

Unlike the C#/Java languages where objects are automatically destroyed by the Runtime Environment, in C language it is necessary to esplicitly deallocate the memory allocated by the identified tags. To do that, the FreeTagsMemory function is available, passing the pointer to the identified tags list.

Parameters:

Name	Description
Tags	tags array returned by one of the inventory family function.

Syntax:

C representation:



isReadPointPresent Method

Description:

This method checks if a read point is present in the logical source.

Parameters:

Name	Description
ReadPoint	A string representing the name of the read point (antenna).

Return value:

A boolean value representing the presence of a read point in the logical source (true means that it is present, false if it is not present).

Syntax:

C# representation:

string ReadPoint)

JAVA representation:

java.lang.String ReadPoint)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_isReadPointPresent(

CAENRFIDHandle handle,
char *ReadPoint,
char *SourceName,
short *isPresent);

KillTag_EPC_C1G1 Method

Description:

This method can be used to kill a EPC Class 1 Gen 1 tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be killed.
Password	The tag's kill password.

Syntax:

$\it C\#$ representation:

public void KillTag_EPC_C1G1(

CAENRFIDTag Tag, short Password)

JAVA representation:

public void KillTag_EPC_C1G1(

CAENRFIDTag Tag, short Password) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID KillTag EPC C1G1(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char Password);



KillTag_EPC_C1G2 Method

KillTag_EPC_C1G2 Method (CAENRFIDTag, Int32)

Description:

This method can be used to kill a EPC Class 1 Gen 2 tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be killed.
Password	The tag's kill password.

Syntax:

C# representation:

public void KillTag_EPC_C1G2(

CAENRFIDTag Tag,

int Password)

JAVA representation:

public void KillTag_EPC_C1G2(

CAENRFIDTag Tag, int Password) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_KillTag_EPC_C1G2(

CAENRFIDHandle handle, CAENRFIDTag *Tag, Password); int



KillTag_EPC_C1G2 Method (Int16, Int16, Int16, Byte[], Int32)

Description:

This method can be used to kill a EPC Class 1 Gen 2 tag.

Parameters:

Name	Description
BankMask	Memory bank for tag identificantion.
PositionMask	Bit position (from the start of the selected bank) where apply the mask to match.
LengthMask	Length of the mask.
Mask	Mask of byte.
Password	The tag's kill password.

Syntax:

C# representation:

JAVA representation:

public void KillTag_EPC_C1G2(

short BankMask,
short PositionMask,
short LengthMask,
byte[] Mask,
int Password)
throws CAENRFIDException

C representation:



LockBlockPermaLock_EPC_C1G2 Method

Description:

This method implements the BLockPermaLock with ReadLock=1 as specified in EPC C1G2 rev. 1.2.0 protocol.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
MemBank	The memory bank where to write the data.
BlockPtr	The address where to start writing the data.
BlockRange	The number of word of the mask.
Mask	A bitmask that permit to select which of the four bytes have to be locked (i.e. mask 0x05 write the bytes on position Address + 1 and Address + 3).
AccessPassword	The access password.

Syntax:

C# representation:

public void LockBlockPermaLock EPC C1G2(Permalock_bro_clot

CAENRFIDTag Tag,
short MemBank,
short BlockPtr,
short BlockRange,
byte[] Mask,
int AccessPassword)

JAVA representation:

public void LockBlockPermaLock_EPC_C1G2(

CAENRFIDTag Tag,
MemBank, BlockPtr, short short BlockRange,

byte[] Mask,

AccessPassword) int

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_LockBlockPermaLock_EPC_C1G2(CAENRFIDHandle handle, CAENRFIDTag *Tag, CAENRFIDTag short short short byte[] MemBank, BlockPtr, BlockRange, Mask,

AccessPassword);



LockTag_EPC_C1G2 Method

LockTag_EPC_C1G2 Method (CAENRFIDTag, Int32)

Description:

This method can be used to lock a memory bank of a EPC Class 1 Gen 2 tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be locked.
Payload	The Payload parameter for the lock command as defined by the EPC Class 1 Gen 2 protocol specification.

Syntax:

C# representation:

public void LockTag EPC C1G2(

CAENRFIDTag Tag, int Payload)

JAVA representation:

public void LockTag_EPC_C1G2(

CAENRFIDTag Tag, int Payload) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID LockTag EPC C1G2(

CAENRFIDHandle handle, CAENRFIDTag *Tag, int Payload);

LockTag_EPC_C1G2 Method (CAENRFIDTag, Int32, Int32)

Description:

This method can be used to lock a memory bank of a EPC Class 1 Gen 2 tag after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be locked.
Payload	The Payload parameter for the lock command as defined by the EPC Class 1 Gen 2
	protocol specification.
AccessPassword	The access password.

Syntax:

C# representation:

public void LockTag_EPC C1G2(

CAENRFIDTag Tag, int Payload,

int AccessPassword)

JAVA representation:

public void LockTag_EPC_C1G2(

CAENRFIDTag
int Payload,
int AccessPassword)

throws CAENRFIDException

 ${\it C\ representation:}$

CAENRFIDErrorCodes CAENRFID_SecureLockTag_EPC_C1G2(

CAENRFIDHandle handle, CAENRFIDTag *Tag, int Payload,



LockTag_EPC_C1G2 Method (Int16, Int16, Int16, Byte[], Int32)

Description:

This method can be used to lock a memory bank of a EPC Class 1 Gen 2 tag.

Parameters:

Name	Description
BankMask	Memory bank for tag identificantion.
PositionMask	Bit position (from the start of the selected bank) where apply the mask to match.
LengthMask	Length of the mask.
Mask	Mask of byte.
Payload	The Payload parameter for the lock command as defined by the EPC Class 1 Gen 2 protocol specification.

Syntax:

C# representation:

public void	LockTag_EPC_C1G2(
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	int	Payload)

JAVA representation:

public void	LockTag EPC C1G2(
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	int	Payload)
	throws CAENRFID	Exception

${\it C\ representation:}$

CAENRFIDErrorCodes	CAENRFID_BankFilteredLockTag	_EPC_C1G2(
	CAENRFIDHandle	handle,
	char	*SourceName,
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	char	*Mask,
	int	Payload);



LockTag_EPC_C1G2 Method (Int16, Int16, Int16, Byte[], Int32, Int32)

Description:

This method can be used to lock a memory bank of a EPC Class 1 Gen 2 tag after having put it in Secured state using the Access command.

Parameters:

Name	Description
BankMask	Memory bank for tag identification.
PositionMask	Bit position (from the start of the selected bank) where apply the mask to match.
LengthMask	Length of the mask.
Mask	Mask of byte.
Payload	The Payload parameter for the lock command as defined by the EPC Class 1 Gen 2 protocol specification.
AccessPassword	Access password.

Syntax:

C# representation:

public void LockTag_EPC_C1G2(BankMask, short short PositionMask, short LengthMask, byte[] Mask, Payload, int.

int AccessPassword)

BankMask,

JAVA representation:

LockTag EPC C1G2(public void short

short PositionMask, short LengthMask, byte[] Mask, int Payload, int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SecureBankFilteredLockTag EPC C1G2(

CAENRFIDHandle handle, char *SourceName, short BankMask, short PositionMask, LengthMask, short char *Mask, int Payload,



LockTag_ISO180006B Method

Description:

This method can be used to lock a byte in the memory of a ISO18000-6B tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be locked.
Address	The byte's address to lock.

Syntax:

C# representation:

public void LockTag_ISO180006B(

CAENRFIDTag Tag, short Address)

JAVA representation:

public void LockTag_ISO180006B(

CAENRFIDTag Tag, short Address) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID LockTag ISO180006B(

CAENRFIDHandle handle, CAENRFIDTag *Tag, short Address);

NXP_ChangeEAS Method

Description:

This method can be used to issue a ChangeEAS custom command as defined by the NXP G2XM and G2XL datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to select.
EAS	A boolean representing the EAS state to set.
AccessPassword	The access password.

Syntax:

C# representation:

public void NXP_ChangeEAS(

CAENRFIDTag Tag, bool EAS,

int AccessPassword)

JAVA representation:

CAENRFIDTag Tag, boolean EAS,

int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_NXP_SecureChangeEAS(

CAENRFIDHandle handle, CAENRFIDTag *Tag, char EAS,



NXP_EAS_Alarm Method

Description:

This method can be used to issue a EAS_Alarm custom command as defined by the NXP G2XM and G2XL datasheet.

Return value.

An array of bytes representing the EAS Code.

Syntax:

C# representation:

JAVA representation:

public byte[] NXP_EAS_Alarm()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID NXP EAS Alarm(

CAENRFIDHandle handle, char *TRData);

NXP_ReadProtect Method

NXP_ReadProtect Method (CAENRFIDTag)

Description:

This method can be used to issue a ReadProtect custom command as defined by the NXP G2XM and G2XL datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to select.

Syntax:

C# representation:

public void NXP_ReadProtect(

CAENRFIDTag Tag)

JAVA representation:

CAENRFIDTag Tag)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_NXP_ReadProtect(

CAENRFIDHandle handle, CAENRFIDTag *Tag);



NXP_ReadProtect Method (CAENRFIDTag, Int32)

Description:

This method can be used to issue a ReadProtect custom command as defined by the NXP G2XM and G2XL datasheet after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to select.
AccessPassword	The access password.

Syntax:

C# representation:

CAENRFIDTag Tag,

int AccessPassword)

JAVA representation:

public void NXP_ReadProtect(

CAENRFIDTag Tag,

int AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID NXP SecureReadProtect(

CAENRFIDHandle handle, CAENRFIDTag *Tag,

int AccessPassword);

NXP_ResetReadProtect Method

Description:

This method can be used to issue a ResetReadProtect custom command as defined by the NXP G2XM and G2XL datasheet.

Parameters:

Name	Description
Tag	The CAENRFIDTag object representing the tag to reset the read protection.
Password	The ReadProtect password.

Syntax:

C# representation:

public void NXP_ResetReadProtect(

CAENRFIDTag Tag, int Password)

JAVA representation:

CAENRFIDTag Tag, int Password) throws CAENRFIDException

 ${\it C\ representation:}$

 ${\tt CAENRFIDErrorCodes} \quad {\tt CAENRFID_NXP_ResetReadProtect} \, ($

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
int Password);



ProgramID_EPC_C1G1 Method

Description.

This method can be used to write the EPC of a EPC Class 1 Gen 1 tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be programmed, the ID contained in this object will be programmed into the tag.
Password	The password needed in order to write into the tag.
Lock	A flag used to lock the EPC in the tag (1 if the EPC have to be locked).

Syntax:

C# representation:

public void ProgramID_EPC_C1G1(

CAENRFIDTag Tag, short Password, bool Lock)

JAVA representation:

public void ProgramID_EPC_C1G1(

CAENRFIDTag Tag, short Password, boolean Lock) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID ProgramID EPC C1G1(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
char Password,
unsigned short Lock);

ProgramID_EPC_C1G2 Method

ProgramID_EPC_C1G2 Method (CAENRFIDTag, Int16)

Description:

This method can be used to write the EPC of a EPC Class 1 Gen 2 tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be programmed, the ID contained in this object will be programmed into the tag.
NSI	The Numbering System Identifier as defined in EPC Class 1 Gen 2 protocol specifications.

Syntax:

C# representation:

public void ProgramID EPC C1G2(

CAENRFIDTag Tag, short NSI)

 ${\it JAVA\ representation:}$

public void ProgramID_EPC_C1G2(

CAENRFIDTag Tag, short NSI) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_ProgramID_EPC_C1G2(

CAENRFIDHandle handle, CAENRFIDTag *Tag, unsigned short NSI);



ProgramID_EPC_C1G2 Method (CAENRFIDTag, Int16, Int32)

Description:

This method can be used to write the EPC of a EPC Class 1 Gen 2 tag after having put it in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be programmed, the ID contained in this
	object will be programmed into the tag.
NSI	The Numbering System Identifier as defined in EPC Class 1 Gen 2 protocol specifications.
AccessPassword	The access password.

Syntax:

C# representation:

public void ProgramID_EPC_C1G2(

CAENRFIDTag Tag, short NSI,

AccessPassword) int

JAVA representation:

ProgramID EPC C1G2(public void

CAENRFIDTag Tag, short NSI,

int. AccessPassword)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SecureProgramID EPC C1G2(

CAENRFIDHandle handle, CAENRFIDTag *Tag, NSI, unsigned short

int AccessPassword);

ProgramID_EPC119 Method

Description:

This method can be used to write the UID of a EPC 1.19 tag.

Parameters:

, and the color	
Name	Description
Tag	The CAENRFIDTag representing the tag to be programmed.
NewID	An array of bytes representing the new UID for the tag.

Syntax:

C# representation:

public void ProgramID_EPC119(

CAENRFIDTag Tag,

byte[] NewID)

JAVA representation:

public void ProgramID_EPC119(

CAENRFIDTag Tag,

byte[] NewID)

C representation:

CAENRFIDErrorCodes CAENRFID_ProgramID_EPC119(

CAENRFIDHandle handle, CAENRFIDTag *Tag, *NewID); char



Query_EPC_C1G2 Method

Description:

This method makes the reader generate a EPC Class1 Gen2 Query command.

Return value:

True on successfull completion.

Syntax:

C# representation:

public bool Query EPC C1G2()

JAVA representation:

public boolean Query_EPC_C1G2()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID Query EPC C1G2(

CAENRFIDHandle handle, char *SourceName, short *isPresent);

QueryAck_EPC_C1G2 Method

Description:

This method make the reader generate a sequence of EPC Class1 Gen2 Query and Ack commands. It can be used to read a single tag under the field. If there are more than one tag under the field the method fails.

Return value:

An array of bytes representing the EPC of the tag

Syntax:

C# representation:

public byte[] QueryAck_EPC_C1G2()

JAVA representation:

public byte[] QueryAck_EPC_C1G2()

throws CAENRFIDException

 ${\it C\ representation:}$

CAENRFIDErrorCodes QueryAck_EPC_C1G2(

CAENRFIDHandle handle, char *SourceName,

byte *<u>Tag</u>);



ReadBLockPermalock_EPC_C1G2 Method

Description:

This method implements the BLockPermaLock with ReadLock=0 as specified in EPCC1G2 rev. 1.2.0 protocol.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be read.
MemBank	The memory bank where to read the data.
Blockptr	The address where to start reading the data.
BlockRange	The number of word to be read.
AccessPassword	The access password.

Return value

An array of bytes representing the data read from the tag.

Syntax:

C# representation:

JAVA representation:

public byte[] ReadBLockPermalock_EPC_C1G2(

CAENRFIDTag Tag,
short MemBank,
short Blockptr,
short BlockRange,
int AccessPassword)

throws CAENRFIDException

C representation:



ReadTagData Method

Description:

This method can be used to read a portion of the user memory in a ISO18000-6B tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be read.
Address	The address where to start reading the data.
Length	The number of byte to be read.

Return value:

An array of bytes representing the data read from the tag.

Syntax:

C# representation:

public byte[] ReadTagData(

CAENRFIDTag Tag, short Address, short Length)

JAVA representation:

public byte[] ReadTagData(

CAENRFIDTag Tag, short Address, short Length) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_ReadTagData(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
int Address,
int Length,
void *Data);



ReadTagData_EPC_C1G2 Method

ReadTagData_EPC_C1G2 Method (CAENRFIDTag, Int16, Int16, Int16)

Description:

This method can be used to read a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be read.
MemBank	The memory bank where to read the data.
Address	The address where to start reading the data.
Length	The number of byte to be read.

Return value:

An array of bytes representing the data read from the tag.

Syntax:

C# representation:

JAVA representation:

C representation:

CAENRFIDErrorCodes CAENRFID_ReadTagData_EPC_C1G2(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
short MemBank,
int Address,
int Length,
void *Data);



ReadTagData_EPC_C1G2 Method (CAENRFIDTag, Int16, Int16, Int16, Int32)

Description:

This method can be used to read a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag after having put the tag in Secured state using the Access command.

Parameters:

Name	Description	
Tag	The CAENRFIDTag representing the tag to be read.	
MemBank	The memory bank where to read the data.	
Address	The address where to start reading the data.	
Length	The number of byte to be read.	
AccessPassword	The access password.	

Return value:

An array of bytes representing the data read from the tag.

Syntax:

C# representation:

<pre>public byte[]</pre>	ReadTagData EPC C1G2(
	CAENRFIDTag	Tag,
	short	MemBank,
	short	Address,
	short	Length,
	int	AccessPassword)

JAVA representation:

```
ReadTagData EPC C1G2(
public byte[]
                            CAENRFIDTag
                                              Tag,
                            short
                                             MemBank,
                            short
                                              Address,
                            short
                                              Length,
                            int
                                              AccessPassword)
                            throws CAENRFIDException
```

```
CAENRFIDErrorCodes CAENRFID_SecureReadTagData_EPC_C1G2 (
                           CAENRFIDHandle handle,
                           CAENRFIDTag
                                             *Tag,
                           short
                                             MemBank,
                           int
                                             Address,
                           int
                                             Length,
                                             AccessPassword,
                           int
                           void
                                             *Data);
```



ReadTagData_EPC_C1G2 Method (Int16, Int16, Int16, Byte[], Int16, Int16)

Description:

This method can be used to read a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag. In this case the target tag is identified by 'LenghtMask' bytes of passed mask placed in a memory bank 'BankMask' at 'PositionMask' byte from bank starting address byte.

Parameters:

Name	Description
BankMask	Memory bank for tag identificantion.
PositionMask	Bit position (from the start of the selected bank) where apply the mask to match.
LengthMask	Length of the mask.
Mask	Mask of byte.
MemBank	Memory bank where read.
Address	Address where starts reading.
Length	Number of byte to read.

Return value:

An array of bytes representing the data read from the tag.

Syntax:

C# representation:

muhlia hutall	DoodmagDota EDC C1C2/	
<pre>public byte[]</pre>	ReadTagData_EPC_C1G2(short	DankMa als
	Short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	short	MemBank,
	short	Address,
	short	Length)
JAVA representation:		
nublic buto[]	PondEngData EDC C1C2/	

public byte

<u> </u>	ReadTagData_EPC_C	IG2 (
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	short	MemBank,
	short	Address,
	short	Length)
	throws	CAENRFIDException

CAENRFIDErrorCodes	CAENRFID BankFilteredReadTagI	ata EPC C1G2(
	_ CAENRFIDHandle	handle,
	char	*SourceName,
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	char	*Mask,
	short	MemBank,
	int	Address,
	int	Length,
	void	*Data);



ReadTagData_EPC_C1G2 Method (Int16, Int16, I

Description:

This method can be used to read a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag. In this case the target tag is identified by 'LenghtMask' bytes of passed mask placed in a memory bank 'BankMask' at 'PositionMask' byte from bank starting address byte. This is the secure version using the Access command.

Parameters:

Name	Description	
BankMask	Memory bank for tag identificantion.	
PositionMask	Bit position (from the start of the selected bank) where apply the mask to match.	
LengthMask	Length of the mask.	
Mask	Mask of byte.	
MemBank	Memory bank where read.	
Address	Address where starts reading.	
Length	Number of byte to read.	
AccessPassword	Access Password.	

Return value:

An array of bytes representing the data read from the tag.

Syntax:

C# representation:

<pre>public byte[]</pre>	ReadTagData_EPC_C1G2(
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	short	MemBank,
	short	Address,
	short	Length,
	int	AccessPassword)

JAVA representation:

ReadTagData_EPC_C1G2(
short	BankMask,
short	PositionMask,
short	LengthMask,
byte[]	Mask,
short	MemBank,
short	Address,
short	Length,
int	AccessPassword)
throws CAENRFIDE	Exception
	short short short byte[] short short short int

CAENRFIDErrorCodes	CAENRFID SecureBankFiltered	ReadTagData EPC C1G2 (
	_ CAENRFIDHandle	handle,
	char	*SourceName,
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	short	MemBank,
	int	Address,
	int	Length,
	void	* <u>Data</u> ,
	int	AccessPassword);



RemoveReadPoint Method

Description:

This method removes a read point from the logical source.

Parameters:

Name	Description
ReadPoint	A string representing the name of the read point (antenna).

Syntax:

C# representation:

string ReadPoint)

JAVA representation:

public void RemoveReadPoint(

java.lang.String ReadPoint)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_RemoveReadPoint(

CAENRFIDHandle handle, char *SourceName, char *ReadPoint);

ResetSession_EPC_C1G2 Method

Description:

This method can be used to reset the Session status for EPC Class1 Gen2 tags. After the execution of this method all the tags in the field of the antennas belonging to this logical source are back in the default Session.

Syntax:

C# representation:

JAVA representation:

throws CAENRFIDException

 ${\it C\ representation:}$

 ${\tt CAENRFIDErrorCodes} \quad {\tt CAENRFID_ResetSession_EPC_C1G2} \ ($

CAENRFIDHandle handle,

char *SourceName);



SetDESB_ISO180006B Method

Description:

This method can be used to set the Data Exchange Status Bit (see ISO18000-6B protocol specification) used by the anticollision algorithm when called on this logical source.

Parameters:

Name	Description
Value	The DESB setting value.

Syntax:

C# representation:

public void SetDESB_ISO180006B(

CAENRFIDLogicalSourceConstants Value)

JAVA representation:

public void SetDESB_ISO180006B(

CAENRFIDLogicalSourceConstants Value)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetDESB ISO180006B(

CAENRFIDHandle handle, unsigned int Value);

SetQ_EPC_C1G2 Method

Description:

This method can be used to set the initial Q value (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Parameters:

Name	Description
Value	The initial Q value setting.

Syntax:

C# representation:

public void SetQ_EPC_C1G2(

int Value)

JAVA representation:

int Value)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetQValue_EPC_C1G2(

CAENRFIDHandle handle, char *SourceName, int Value);



SetReadCycle Method

Description:

This method sets the number of read cycles to be performed by the logical source during the inventory algorithm execution.

Parameters:

Name	Description
value	The number of read cycles.

Syntax:

C# representation:

public void SetReadCycle(

int value)

JAVA representation:

public void SetReadCycle(

int value) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetReadCycle(

CAENRFIDHandle handle, char *SourceName, int value);

SetSelected_EPC_C1G2 Method

Description:

This method can be used to set the Selected flag (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Parameters:

Name	Description
Value	The Selected flag value.

Syntax:

C# representation:

CAENRFIDLogicalSourceConstants Value)

JAVA representation:

public void SetSelected EPC C1G2(

CAENRFIDLogicalSourceConstants Value)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetSelected_EPC_C1G2(

CAENRFIDHandle handle, char *SourceName, CAENRFIDLogicalSourceConstants Value);



SetSession_EPC_C1G2 Method

Description:

This method can be used to set the Session (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Parameters:

Name	Description
Value	The Session value.

Syntax:

C# representation:

CAENRFIDLogicalSourceConstants Value)

JAVA representation:

CAENRFIDLogicalSourceConstants Value)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetSession EPC C1G2(

CAENRFIDHandle handle, char *SourceName, CAENRFIDLogicalSourceConstants Value);

SetTarget_EPC_C1G2 Method

Description:

This method can be used to set the Target setting (see EPC Class1 Gen2 protocol specification) used by the anticollision algorithm when called on this logical source.

Parameters:

Name	Description
Value	The Target value.

Syntax:

C# representation:

CAENRFIDLogicalSourceConstants Value)

JAVA representation:

CAENRFIDLogicalSourceConstants Value)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetTarget EPC C1G2(

CAENRFIDHandle handle, char *SourceName,

CAENRFIDLogicalSourceConstants Value);



WriteTagData Method

Description:

This method can be used to write a portion of the user memory in a ISO18000-6B tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	The data to be written into the tag's user memory.

Syntax:

C# representation:

public void WriteTagData(

CAENRFIDTag Tag,
short Address,
short Length,
byte[] Data)

JAVA representation:

public void WriteTagData(

CAENRFIDTag Tag,
short Address,
short Length,
byte[] Data)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_WriteTagData(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
int Address,
int Length,
void *Data);



WriteTagData_EPC_C1G2 Method

WriteTagData_EPC_C1G2 Method (CAENRFIDTag, Int16, Int16, Int16, Byte[])

Description:

This method can be used to write a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.

Syntax:

C# representation:

JAVA representation:

public void WriteTagData_EPC_C1G2(

CAENRFIDTag Tag,
short MemBank,
short Address,
short Length,
byte[] Data)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_WriteTagData_EPC_C1G2(

CAENRFIDHandle handle,
CAENRFIDTag *Tag,
short MemBank,
int Address,
int Length,
void *Data);



WriteTagData_EPC_C1G2 Method (CAENRFIDTag, Int16, Int16, Int16, Byte[], Int32)

Description:

This method can be used to write a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag after having put the tag in Secured state using the Access command.

Parameters:

Name	Description
Tag	The CAENRFIDTag representing the tag to be written.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.
AccessPassword	The access password.

Syntax:

C# representation:

int AccessPassword)

JAVA representation:

public void WriteTagData_EPC_C1G2(

CAENRFIDTag Tag,
short MemBank,
short Address,
short Length,
byte[] Data,
int AccessPassword)

throws CAENRFIDException

C representation:



WriteTagData_EPC_C1G2 Method (Int16, Int16, Int16, Byte[], Int16, Int16, Int16, Byte[])

Description:

This method can be used to write a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag.

Parameters:

Name	Description
BankMask	Memory bank for tag identificantion.
PositionMask	Bit position (from the start of the selected bank) where apply the mask to match.
LengthMask	Length of the mask.
Mask	Mask of byte.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.

Syntax:

C# representation:

WriteTagData_EPC_C1G2(
short	BankMask,
short	PositionMask,
short	LengthMask,
byte[]	Mask,
short	MemBank,
short	Address,
short	Length,
byte[]	Data)
	short short short byte[] short short short

JAVA representation:

public void	WriteTagData EPC C1G2(
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	short	MemBank,
	short	Address,
	short	Length,
	byte[]	Data)
	throws CAENRFIDE	xception

CAENRFIDErrorCodes	CAENRFID_BankFilteredWriteTagData_EPC_C1G2(
	CAENRFIDHandle	handle,
	char	*SourceName,
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	char	*Mask,
	short	MemBank,
	int	Address,
	int	Length,
	void	*Data);



WriteTagData_EPC_C1G2 Method (Int16, Int16, Int16, Byte[], Int16, Int16,

Description:

This method can be used to write a portion of memory in a ISO18000-6C (EPC Class1 Gen2) tag after having put the tag in Secured state using the Access command.

Parameters:

Name	Description
BankMask	Memory bank for tag identificantion.
PositionMask	Bit position (from the start of the selected bank) where apply the mask to match.
LengthMask	Length of the mask.
Mask	Mask of byte.
MemBank	The memory bank where to write the data.
Address	The address where to start writing the data.
Length	The number of byte to be written.
Data	An array of bytes representing the data to be written into the tag.
AccessPassword	The access password.

Syntax:

C# representation:

<pre>WriteTagData_EPC_C1G2(</pre>	
short	BankMask,
short	PositionMask,
short	LengthMask,
byte[]	Mask,
short	MemBank,
short	Address,
short	Length,
byte[]	Data,
int	AccessPassword)
	short short short byte[] short short short short short

JAVA representation:

•		
public void	WriteTagData EPC C1G2(
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	byte[]	Mask,
	short	MemBank,
	short	Address,
	short	Length,
	byte[]	Data,
	int	AccessPassword)
	throws CAENRFIDE:	xception

CAENRFIDErrorCodes	CAENRFID_SecureBankFilteredW	riteTagData_EPC_C1G2(
	CAENRFIDHandle	handle,
	char	*SourceName,
	short	BankMask,
	short	PositionMask,
	short	LengthMask,
	char	*Mask,
	short	MemBank,
	int	Address,
	int	Length,
	void	*Data,
	int	AccessPassword);



CAENRFIDNotify Class

The CAENRFIDNotify class defines the structure of a notification message.

In both Java and C# lanuguage this class is composed by methods while in C language is present as a struct (for more informations see § Overview on SDK pag.7):

C representation:

```
typedef struct {
                 byte
                                EvtType;
                 int
                 CAENRFIDProtocol Type;
                                LogicalSource[MAX LOGICAL SOURCE NAME];
                 char
                 struct timeval TimeStamp;
                 short
                                RSSI;
                 char
                                ReadPoint[MAX READPOINT NAME];
                 char ReadPol: byte TID[MAX] short TIDLen;
                                TID[MAX_TID_STZE];
                 } CAENRFIDNotify;
```

getDate Method

Description:

This method returns a timestamp representing the time at which the event was generated.

Return value:

The timestamp value.

Syntax:

C# representation:

getReadPoint Method

Description:

This method returns the read point that has detected the tag.

Return value:

The name of the read point that has detected the Tag.

Syntax:



getRSSI Method

Description:

This method returns the RSSI value measured for the tag.

Return value:

The tag's RSSI.

Syntax:

C# representation:

JAVA representation:

getStatus Method

Description:

This method returns the event type associated to the tag.

Return value:

The event type associated to the Tag.

Syntax:

C# representation:

public CAENRFIDTagEventType getStatus()

JAVA representation:

public CAENRFIDTagEventType getStatus()

getTagID Method

Description:

This method returns the tag's ID (the EPC code in Gen2 tags).

Return value:

An array of bytes representing the tag's ID (the EPC code in EPC Class 1 Gen 2 tags).

Syntax:

C# representation:

public byte[] getTagID()

JAVA representation:

public byte[] getTagID()

getTagLength Method

Description:

This method returns the tag's ID length.

Return value:

The tag's length.

Syntax:

C# representation:

JAVA representation:



getTagSource Method

Description:

This method returns the name of the logical source that has detected the tag.

Return value:

The name of the logical source that has detected the tag.

Syntax:

C# representation:

JAVA representation:

getTagType Method

Description:

This method returns the air protocol of the tag.

Return value:

The air protocol of the tag.

Syntax:

C# representation:

JAVA representation:

public CAENRFIDProtocol getTagType()

getTID Method

Description:

This method returns the TID field value in a EPC Class 1 Gen 2 Tag

Return value:

The bytes of the TID field.

Syntax:

C# representation:

public byte[] getTID()

JAVA representation:



CAENRFIDReader Class

The CAENRFIDReader class is used to create reader objects which permit to access to CAEN RFID readers' configuration and control commands.

Connect Method

Description:

In C# and Java languages, this method starts the communication with the reader. It must be called before any other call to method of the CAENRFIDReader object. See § Managing connections with the readers pag. 7 for more informations.

Parameters:

Name	Description
ConType	The communication link to use for the connection.
Address	Depending on ConType parameter: IP address for TCP/IP communications ("xxx.xxx.xxx.xxx"), COM port for RS232 communications ("COMx"), An index for USB
	communications (not yet supported).

Syntax:

C# representation:

public void Connect(

CAENRFIDPort ConType, string Address)

JAVA representation:

public void Connect(

CAENRFIDPort ConType, java.lang.String Address) throws CAENRFIDException

Init Function

Description:

In C language, this function generates an opaque handle to identify a module attached to the PC. See § Managing connections with the readers pag. 7 for more informations.

Parameters:

Name	Description
ConType	The communication link to use for the connection.
Address	Communication address (i.e.: "COM1" for RS232, "USB0" for USB of IP address for TCP/IP etc.).
handle	The handle that identifies the device.

Syntax:



Disconnect Method

Description:

In C# and Java languages, this method closes the connection with the CAEN RFID Reader releasing all the allocated resources. See § Managing connections with the readers pag. 7 for more informations.

Syntax:

C# representation:

public void Disconnect()

JAVA representation:

public void Disconnect()

throws CAENRFIDException

End

Description:

In C language, this function closes the connection with the CAEN RFID Reader releasing all the allocated resources. See § Managing connections with the readers pag. 7 for more informations.

Parameters:

Name	Description
handle	The handle that identifies the device.

Syntax:

C representation:

GetBitRate Method

Description:

This method gets the current setting of the RF bit rate.

Return value:

The current RF bit rate value.

Syntax:

C# representation:

```
public CAENRFIDBitRate GetBitRate()

JAVA representation:
```

public CAENRFIDBitRate GetBitRate()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_GetBitrate(

CAENRFIDHandle handle, CAENRFID_Bitrate *Bitrate);



GetFirmwareRelease Method

Description:

This method permits to read the release of the firmware loaded into the device.

Return value:

A string representing the firmware release of the device.

Syntax:

C# representation:

public string GetFirmwareRelease()

JAVA representation:

public java.lang.String GetFirmwareRelease()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID GetFirmwareRelease(

CAENRFIDHandle handle, char *<u>FWRel</u>);

GetIO Method

Description:

This method gets the current digital Input and Output lines status.

Return value:

A bitmask representing the I/O lines status. The format and the meaning of the bits depends on the Reader's model. Please refer to the corresponding user manual available on http://www.caen.it/rfid

Syntax:

C# representation:

public int GetIO()

JAVA representation:

public int GetIO()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID GetIO(

CAENRFIDHandle handle, unsigned int *IORegi

*IORegister);



GetIODirection Method

Description:

This method gets the current I/O direction setting as a bitmask. Each bit represent a I/O line, a value of 0 means that the line is configured as an input, 1 as an output. This setting has a meaning only for those readers with configurable I/O lines.

Return value:

A bitmask representing the I/O setting.

Syntax:

C# representation:

JAVA representation:

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID GetIODirection(

CAENRFIDHandle handle,

unsigned int * IODirection);

GetLBTMode Method

Description:

This method gets the current LBT mode setting. If the current regulation is based on the frequency hopping mechanism it returns the FH status.

Return value:

A zero value if the LBT/FH is disabled, non-zero value if it is enabled.

Syntax:

C# representation:

JAVA representation:

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID GetLBTMode(

CAENRFIDHandle handle, unsigned short *LBTMode);



GetPower Method

Description:

This method gets the current setting of the RF power expressed in mW.

Return value:

The current conducted RF power expressed in mW.

Syntax:

C# representation:

public int GetPower()

JAVA representation:

public int GetPower()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_GetPower(

CAENRFIDHandle handle, unsigned int *Power) *Power);

GetProtocol Method

Description:

This method gets the current air protocol of the Reader.

Return value:

A CAENRFIDProtocol representing the current air protocol set on the reader.

Syntax:

C# representation:

public CAENRFIDProtocol GetProtocol()

JAVA representation:

public CAENRFIDProtocol GetProtocol()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_GetProtocol(

CAENRFIDHandle

CAENRFIDProtocol *Protocol);

handle,



GetReaderInfo Method

Description:

This method permits to read the reader information loaded into the device.

Return value:

The reader information of the device.

Syntax:

C# representation:

JAVA representation:

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID GetReaderInfo(

CAENRFIDHandle

handle,

GetReadPoints Method

Description:

This method gets the names of the read points (antennas) available in the reader.

Return value:

An array containing the read points (antennas) names available in the reader.

Syntax:

C# representation:

JAVA representation:

public java.lang.String[] GetReadPoints()

C representation:

CAENRFIDErrorCodes CAENRFID_GetReadPoints(

CAENRFIDHandle

char int handle,
 **AntNames [],
 *AntNumber);



GetReadPointStatus Method

Description:

This method gets the CAENRFIDReadPointStatus object representing the status of a read point (antenna).

Parameters:

Name	Description
ReadPoint	The name of the read point to check.

Return value:

The CAENRFIDReadPointStatus object rapresenting the current status of the read point.

Syntax:

C# representation:

public CAENRFIDReadPointStatus GetReadPointStatus(

string ReadPoint)

JAVA representation:

public CAENRFIDReadPointStatus GetReadPointStatus(

java.lang.String ReadPoint)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_GetReadPointStatus(

CAENRFIDHandle handle, char *ReadPoint, CAENRFIDReadPointStatus *Status);

GetRFChannel Method

Description:

This method gets the index of the RF channel currently in use. The index value meaning change for different country regulations.

Return value:

The RF channel index.

Syntax:

C# representation:

JAVA representation:

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_GetRFChannel(

CAENRFIDHandle handle, unsigned short *RFChannel);

Remarks

This method is only used for testing applications.



GetRFRegulation Method

Description:

This method gets the current RF regulation setting value.

Return value:

The RF regulation value.

Syntax:

C# representation:

public CAENRFIDRFRegulations GetRFRegulation()

JAVA representation:

public CAENRFIDRFRegulations GetRFRegulation()

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_GetRFRegulation(

CAENRFIDHandle handle, CAENRFIDRFRegulations *RFRegulation);

GetSource Method

Description:

This method gets a CAENRFIDLogicalSource object given its name.

Parameters:

Name	Description
Source	The name of the logical source.

Return value:

 $\label{thm:calibration} The \ {\tt CAENRFIDLogical Source} \ object \ corresponding \ to \ the \ requested \ name.$

Syntax:

C# representation:

JAVA representation:

Remarks:

This function does not exist in C language, see § Overview on SDK pag. 7 for more informations.



GetSourceNames Method

Description:

This method gets the names of the logical sources available in the reader.

Return value:

An array containing the logical source names available in the reader.

Syntax:

C# representation:

JAVA representation:

C representation:

CAENRFIDErrorCodes CAENRFID_GetSourceNames(

CAENRFIDHandle handle,

GetSources Method

Description:

This method gets the CAENRFIDLogicalSource objects available on the reader.

Return value:

An array of the logical source objects available in the Reader.

Syntax:

C# representation:

public CAENRFIDLogicalSource[] GetSources()

JAVA representation:

public CAENRFIDLogicalSource[]

Remarks:

This function does not exist in C language, see § Overview on SDK pag. 7 for more informations.

InventoryAbort Method

For the description of this method, see § Event Handling pag.108.



RFControl Method

Description:

Permits to control the RF CW (Carrier Wave) signal generation.

Parameters:

Name	Description
OnOff	The value to set. 1 generates the CW, 0: stops the CW generation.

Syntax:

C# representation:

JAVA representation:

int OnOff)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID RFControl(

CAENRFIDHandle handle, int OnOff);

Remarks

This method is only used for testing applications.

SetBitRate Method

Description:

This method sets the RF bit rate to use.

Parameters:

Name	Description
BitRate	The RF bit rate value to be set.

Syntax:

C# representation:

CAENRFIDBitRate BitRate)

JAVA representation:

public void SetBitRate(

CAENRFIDBitRate BitRate) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetBitRate(

CAENRFIDHandle handle, CAENRFID Bitrate BitRate);



SetDateTime Method

Description:

This method sets the Date/Time of the reader.

Parameters:

Name	Description
DateTime	The Date/Time to be set on the reader as a string in the format: "yyyy-mm-dd
	hh:mm:ss".

Syntax:

C# representation:

public void SetDateTime(

> string DateTime)

JAVA representation:

public void SetDateTime(

java.lang.String DateTime) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetDateTime(

CAENRFIDHandle handle, *DateTime);

SetIO Method

Description:

This method sets the Output lines value.

Parameters:

Name	Description
IOValue	A bitmask representing the I/O lines value. The format and the meaning of the bits depends on the reader's model. Please refer to the corresponding user manual available on http://www.caen.it/rfid.

Syntax:

C# representation:

public void SetIO(

IOValue) int

 ${\it JAVA\ representation:}$

public void SetIO(

IOValue) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetIO(

CAENRFIDHandle handle, unsigned int. IOValue

IOValue); unsigned int



SetIODIRECTION Method

Description:

This method sets the current I/O direction setting as a bitmask. Each bit represent a I/O line, a value of 0 means that the line is configured as an input, 1 as an output. This setting has a meaning only for those readers with configurable I/O lines.

Parameters:

Name	Description
IODirection	The IODirection value to set.

Syntax:

C# representation:

public void SetIODIRECTION (

IODirection) int

JAVA representation:

public void SetIODIRECTION(

IODirection) int

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetIODirection(

CAENRFIDHandle handle,

unsigned int IODirection);

SetLBTMode Method

Description:

This method sets/resets the LBT/FH mode.

Parameters:

Name	Description
LBTMode	The LBT/FH setting value to be set. 1 set LBT/FH Mode to ON, 0: resets LBT/FH Mode to
	OFF.

Syntax:

C# representation:

public void SetLBTMode(

LBTMode) short

JAVA representation:

SetLBTMode(public void

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetLBTMode(

CAENRFIDHandle handle,

LBTMode); unsigned short



SetNetwork Method

Description:

This method permits to configure the network settings of the reader. In order to apply the changes the reader must be restarted.

Parameters:

Name	Description
IPAddress	The IP address to set on the reader network interface.
NetMask	The netmask to set on the reader network interface.
Gateway	The gateway to set on the reader network interface.

Syntax:

C# representation:

public void SetNetwork(

string IPAddress, string NetMask, string Gateway)

JAVA representation:

public void SetNetwork(

java.lang.String IPAddress,
java.lang.String NetMask,
java.lang.String Gateway)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetNetwork(

CAENRFIDHandle handle, char *IPAddress, char *NetMask, char *Gateway);

SetPower Method

Description:

This method sets the conducted RF power of the Reader.

Parameters:

Name	Description
power	The conducted RF power value expressed in mW.

Syntax:

C# representation:

public void SetPower(

int power)

 ${\it JAVA\ representation:}$

public void SetPower(

int power)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetPower(

CAENRFIDHandle handle, unsigned int Power);



SetProtocol Method

Description:

This method sets the air protocol of the reader.

Parameters:

Name	Description
Protocol	The CAENRFIDProtocol representing the air protocol to be set.

Syntax:

C# representation:

public void SetProtocol(

CAENRFIDProtocol Protocol)

JAVA representation:

public void SetProtocol(

CAENRFIDProtocol Protocol) throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetProtocol(

CAENRFIDHandle handle, CAENRFIDProtocol Protocol);

SetRFChannel Method

Description:

This method sets the RF channel to use. This method fixes the RF channel only when the listen before talk or the frequency hopping feature is disabled.

Parameters:

Name	Description
Channel	The RF channel index to be set.

Syntax:

C# representation:

public void SetRFChannel(

short Channel)

JAVA representation:

public void SetRFChannel(

short Channel)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID SetRFChannel(

CAENRFIDHandle handle, unsigned short Channel);

Remarks

This method is only used for testing applications.



SetRFRegulation Method

Description:

This method sets the RF regulation setting value.

Parameters:

Name	Description
RFRegulation	The RF regulation value to set.

Syntax:

C# representation:

public void SetRFRegulation(

CAENRFIDRFRegulations RFRegulation)

JAVA representation:

public void SetRFRegulation(

CAENRFIDRFRegulations RFRegulation)

throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetRFRegulation(

CAENRFIDHandle handle,

CAENRFIDRFRegulations RFRegulation);



SetRS232 Method

Description:

This method permits to change the serial port settings. Valid settings values depend on the reader model.

Parameters:

Name	Description
baud	The baud rate value to set.
datab	The number of data bits to set.
stopb	The number of stop bits to set.
parity	The parity value to set.
flowc	The flow control value to set.

Syntax:

C# representation:

public void SetRS232(

int baud,
int datab,
int stopb,
CAENRFIDRS232Constants parity,
CAENRFIDRS232Constants flowc)

JAVA representation:

public void SetRS232(

int baud,
int datab,
int stopb,
CAENRFIDRS232Constants parity,
CAENRFIDRS232Constants flowc)
throws CAENRFIDException

C representation:

CAENRFIDErrorCodes CAENRFID_SetRS232(

CAENRFIDHandle handle, unsigned long baud, unsigned long datab, unsigned long stopb, CAENRFID_RS232_Parity parity, CAENRFID_RS232_FlowControl flowc);



CAENRFIDReaderInfo Class

The CAENRFIDReaderInfo class is used to create reader info objects. Reader info objects represent the information about the reader device (model and serial number).

GetModel Method

Description:

This method gets the reader's model.

Return value:

The reader's model.

Syntax:

C# representation:

JAVA representation:

Remarks:

This method does not exist in C language. It is possible to use the *GetReaderInfo Method* pag. 93 instead. In fact *GetReaderInfo Method* (in the C language) returns the reader's model and the serial number.

GetSerialNumber Method

Description:

This method gets the reader's serial number.

Return value:

The reader's serial number.

Syntax:

C# representation:

JAVA representation:

Remarks:

This method does not exist in C language. It is possible to use the *GetReaderInfo Method* pag. 93 instead. In fact *GetReaderInfo Method* (in the C language) returns the reader's model and the serial number.



CAENRFIDTag Class

The CAENRFIDTag class is used to define objects representing the tags. These objects are used as return values for the inventory methods and as arguments for many tag access methods.

In both Java and C# lanuguage this class is composed by methods while in C language the following struct is present (for more informations see § Overview on SDK pag.7):

C representation:

GetId Method

Description:

This method returns the tag's ID (the EPC code in Gen2 tags).

Return value:

An array of bytes representing the tag's ID (the EPC code in EPC Class 1 Gen 2 tags).

Syntax:

C# representation:

public byte[] GetId()

JAVA representation:
 public byte[] GetId()

GetLength Method

Description:

This method returns the tag's ID length.

Return value:

The tag's length.

Syntax:

C# representation:

JAVA representation:



GetReadPoint Method

Description:

This method returns the read point that has detected the tag.

Return value:

The name of the read point that has detected the Tag

Syntax:

C# representation:

JAVA representation:

throws CAENRFIDException

GetRSSI Method

Description:

This method returns the RSSI value measured for the tag.

Return value:

The tag's RSSI.

Syntax:

C# representation:

JAVA representation:

GetSource Method

Description:

This method returns the name of the logical source that has detected the tag.

Return value:

The name of the logical source that has detected the tag.

Syntax:

C# representation:

public CAENRFIDLogicalSource GetSource()

JAVA representation:



GetTID Method

Description:

This method returns the tag's TID (valid only for EPC Class 1 Gen 2 tags).

Return value:

An array of bytes representing the tag's TID.

Syntax:

C# representation:

public byte[] GetTID()

JAVA representation:

public byte[] GetTID()

GetTimeStamp Method

Description:

This method gets the Tag's TimeStamp.

Return value:

The Tags's Unix TimeStamp.

Syntax:

C# representation:

JAVA representation:

GetType Method

Description:

This method returns the air protocol of the tag.

Return value:

The air protocol of the tag.

Syntax:

C# representation:

public new CAENRFIDProtocol GetType()

JAVA representation:



4 Event Handling

This chapter gives a description of CAENRFID event handling. It contains these topics:

- Event Handling
- C# Event Handling
- JAVA Event Handling
- C Event Handling





Event Handling

Standard tag's detection method (InventoryTag) is based on a polling mechanism: a call to the InventoryTag method/function results in a single read cycle and the detected tags in that cycle are returned.

An useful variant ("continuous mode") uses an event mechanism to notify detected tags: a call to the EventInventoryTag method/function starts a continuous tags' detection algorithm (multiple read cycles) and an event is generated for each read cycle to notify the detected tags (see the CAEN RFID API User Manual.for further information).

The user of the library can define an event handler method/function that is called automatically when the event raises; the data related to the event is passed to the handler as a parameter.

The user can define the number of read cycles that the EventInventoryTag have to perform using the ReadCycle parameter of the relevant LogicalSource. If ReadCycle is equal to 0 the EventInventoryTag method loops indefinetely.

The "continuous mode" can be interrupted using the InventoryAbort method function.

The event handling is implemented using the standard event handling mechanism in .NET and Java while in C it is simulated using the callback mechanism.

For further information on the use of the EventInventoryTag, please refer to the CAEN RFID API User Manual.



EventInventoryTag Method

Description:

A call to this method will start a sequence of read cycle on each read point linked to the logical source. The readings will be notified to the controller via event generation.

Parameters:

Name	Description
Mask	A byte array representing the bitmask to apply.
MaskLength	A value representing the bit-oriented length of the bitmask.
Position	A value representing the first bit where the match will start.
Flag	A bitmask representing the InventoryTag options.
pCallBack	The user defined handler called by EventInventoryTag (only in C language).

Return value

A boolean value that represents the status of the command: true if the reader has accepted the command; false otherwise.

Syntax:

C# representation:

public bool	<pre>EventInventoryTag(byte[] short short short</pre>	Mask, MaskLength, Position, Flag)
JAVA representation:		
public boolean	<pre>EventInventoryTag(byte[] short short short throws CAENRFIDException</pre>	Mask, MaskLength, Position, Flag)
C representation:		
typedef struct {	<pre>char char unsigned char unsigned char CAENRFID_INVENTORY_CALLBACK short CAENRFID_EventInventoryParams;</pre>	*SourceName; *Mask; MaskLength; Position; pCallBack; flag;}
CAENRFIDErrorCodes	CAENRFID_EventInventoryTag (handle, rams InvParams);



Remarks:

Depending on the air protocol setting it will execute the appropriate anticollision algorithm. This version of the method permits to specify a bitmask for filtering tag's populations as described by the EPC Class1 Gen2 (ISO18000-6C) air protocol. The filtering will be performend on the memory bank specified by bank parameter, starting at the bit indicated by the Position index and for a MaskLength length. The method will return only the tags that matches the given Mask. Passing a zero value for MaskLength it performs as the non-filtering InventoryTag method. The Flags parameter permits to set InventoryTag method's options.In this case bit 1 and 2 of the flag (continuos and framed mode) are ignored.

Flag value m	Flag value meaning		
Bit 0	RSSI: a 1 value indicates the reader will transmit the RSSI (Return Signal Strength Indicator) in the		
5.00	response.		
Bit 1	Framed data: a 1 value indicates that the tag's data will be transmitted by the reader to the PC as soon as the tag is detected, a 0 value means that all the tags detected are buffered in the reader and trasmitted all together at the end of the inventory cycle.		
Bit 2	Continuous acquisition: a 1 value indicates that the inventory cycle is repeated by the reader depending on the SetReadCycle setting value, a 0 value means that only one inventory cycle will be performed. If the continuous mode is selected a 0 value in the ReadCycle setting will instruct the reader to repeat the inventory cycle until an InventoryAbort method is invoked, a value X different from 0 means that the inventory cycle will be performed X times by the reader.		
Bit 3	Compact data: a 1 value indicates that only the EPC of the tag will be returned by the reader, a 0 value indicates that the complete data will be returned. In case that the compact option is enabled all the other data will be populated by this library with fakes values.		
Bit 4	TID reading: a 1 value indicates that also the TID of the tag will be returned by the reader together with the other informations.		

InventoryAbort Method

Description:

This method stops the EventInventoryTag execution.

Syntax:

C# representation:

JAVA representation:

C representation:

CAENRFIDErrorCodes CAENRFID_InventoryAbort(

CAENRFIDHandle handle);



C# Event Handling

CAENRFIDEventArgs Class

The CAENRFIDEventArgs class defines the CAENRFID event arguments.

getData Method

Description:

This method returns the event object value.

Return value:

The value of the event object.

Syntax:

C# representation:

public CAENRFIDNotify[] getData()

CAENRFIDEventHandler Delegate

CAENRFIDEventHandler delegate declaration.

Parameters:

Name	Description
Event	the Data Event.

Syntax:

C# representation:

CAENRFIDEvent Event

The CAEN RFID event is generated by the library each time tag data arrives from the reader. The event is generated only when the EventInventoryTag method is used. It is an event of the Reader Class.

Syntax:

C# representation:

public event CAENRFIDEventHandler CAENRFIDEvent

Event Data

The event handler receives an argument of type CAENRFIDEventArgs containing data related to this event. The following CAENRFIDEventArgs property provides information specific to this event.

Property	Description
Data	Represents the event object value.



JAVA Event Handling

CAENRFIDEvent Class

The CAENRFIDEvent class defines the CAENRFID event arguments.

getData Method

Description:

This method returns the event object value.

Return value:

The value of the event object.

Syntax:

JAVA representation:

public java.util.ArrayList getData()

CAENRFIDEventListener Interface

The listener interface for receiving CAEN RFID events.

CAENRFIDTagNotify

Description:

This method is invoked when an action occurs.

Parameters:

Name	Description
evt	The CAENRFIDEvent contains the Data Event.

Syntax:

JAVA representation:

void CAENRFIDTagNotify(

CAENRFIDEvent evt)

addCAENRFIDEventListener

This is a Reader Class method. It adds the specified CAENRFIDEvent listener to receive CAENRFIDEvent events from this CAENRIFDReader.

Parameters:

Name	Description
listener	listener - the CAENRFIDEvent listener.

Syntax:

JAVA representation:

public void addCAENRFIDEventListener(

CAENRFIDEventListener listener)

removeCAENRFIDEventListener

This is a Reader Class method. It Removes the specified CAENRFIDEvent listener so that it no longer receives CAENRFID events from this CAENRIFDReader.

Parameters:

Name	Description
listener	listener - the CAENRFIDEvent listener.

Syntax:

JAVA representation:

public void removeCAENRFIDEventListener(

CAENRFIDEventListener listener)



C Event Handling

CAENRFID_INVENTORY_CALLBACK

This function prototype defines the type of the user defined event handler (see the CAEN RFID API User Manual. for further information)

Syntax:

 ${\it C\ representation:}$



5 Enumerations Description

This chapter gives a description of CAENRFID enumerations. It contains these topics:

- CAENRFIDBitRate Enumeration
- CAENRFIDLogicalSourceConstants Enumeration
- CAENRFIDPort Enumeration
- CAENRFIDProtocol Enumeration
- CAENRFIDReadPointStatus Enumeration
- CAENRFIDRFRegulations Enumeration
- CAENRFIDRS232Constants Enumeration
- CAENRFIDSelUnselOptions Enumeration





CAENRFIDBitRate Enumeration

The CAENRFIDBitRate Enumeration gives a list of the supported radiofrequency profiles.

Syntax:

C# representation:

public enum CAENRFIDBitRate

JAVA representation:

C representation:

In the following table, the CAENRFIDBitRate Enumeration members are listed:

Member	Description
DCD ACK FMO TV10DV40	DSB-ASK transmission modulation, FM0 return link encoding, 10 Kbit in transmission,
DSB_ASK_FM0_TX10RX40	40 Kbit in reception.
DSB ASK FM0 TX40RX40	DSB-ASK transmission modulation, FMO return link encoding, 40 Kbit in transmission,
D3B_A3K_FIVIO_1X40KX40	40 Kbit in reception.
DSB ASK FM0 TX40RX160	DSB-ASK transmission modulation, FMO return link encoding, 40 Kbit in transmission,
D3B_A3K_FIVIO_1X40KX100	160 Kbit in reception.
DSB ASK FM0 TX160RX400	DSB-ASK transmission modulation, FMO return link encoding, 160 Kbit in
D3B_A3K_FIVIO_1X100KX400	transmission, 400 Kbit in reception.
DSB ASK M2 TX40RX160	DSB-ASK transmission modulation, Miller (M=2) return link encoding, 40 Kbit in
D3B_A3K_WZ_1X40KX100	transmission, 160 Kbit in reception.
PR ASK M2 TX40RX250	PR-ASK transmission modulation, Miller (M=2) return link encoding, 40 Kbit in
PK_A3K_IVI2_1X4UKX23U	transmission, 250 Kbit in reception.
PR ASK M4 TX40RX250	PR-ASK transmission modulation, Miller (M=4) return link encoding, 40 Kbit in
FR_ASK_IVI4_TA40KA230	transmission, 250 Kbit in reception.
PR ASK M4 TX40RX300	PR-ASK transmission modulation, Miller (M=4) return link encoding, 40 Kbit in
FN_A3N_W4_1X4UNX3UU	transmission, 300 Kbit in reception.



CAENRFIDLogicalSourceConstants Enumeration

The CAENRFIDLogicalSourceConstants Enumeration gives a list of constants used for the configuration of the logical sources. Detailed explanation of the settings can be found in the EPC Class 1 Gen 2 and ISO 18000-6B specification documents.

Syntax:

C# representation:

public enum CAENRFIDLogicalSourceConstants

JAVA representation:

public final class CAENRFIDLogicalSourceConstants

C representation:

typedef enum CAENRFIDLogicalSourceConstants;

In the following table, the CAENRFIDLogicalSourceConstants Enumeration members are listed:

Member	Description
EPC_C1G2_SESSION_S0	Session 0 is selected for the anticollision algorithm execution on the logical source
L1 C_C1G2_5L551G1_50	(valid only for the EPC Class1 Gen2 air protocol).
EPC C1G2 SESSION S1	Session 1 is selected for the anticollision algorithm execution on the logical source
1. 0_0101_0100.0.101	(valid only for the EPC Class1 Gen2 air protocol).
EPC C1G2 SESSION S2	Session 2 is selected for the anticollision algorithm execution on the logical source
11 0_0102_51551011_52	(valid only for the EPC Class1 Gen2 air protocol).
EPC_C1G2_SESSION_S3	Session 3 is selected for the anticollision algorithm execution on the logical source
21 6_6162_52531614_55	(valid only for the EPC Class1 Gen2 air protocol).
EPC C1G2 TARGET A	Target A is selected for the anticollision algorithm execution on the logical source
LI C_CIGZ_TANGET_A	(valid only for the EPC Class1 Gen2 air protocol).
EPC_C1G2_TARGET_B	Target B is selected for the anticollision algorithm execution on the logical source
LI C_CIGZ_TANGET_B	(valid only for the EPC Class1 Gen2 air protocol).
EPC_C1G2_SELECTED_YES	Only the tags with the SL flag set to true are considered in the anticollision algorithm
EFC_CIGZ_SEEECTED_TES	execution on the logical source (valid only for the EPC Class1 Gen2 air protocol).
EPC C1G2 SELECTED NO	Only the tags with the SL flag set to false are considered in the anticollision algorithm
EFC_CIGZ_SEEECTED_NO	execution on the logical source (valid only for the EPC Class1 Gen2 air protocol).
EPC C1G2 ALL SELECTED	All the tags are considered in the anticollision algorithm execution on the logical
LFC_CIGZ_ALL_SELECTED	source (valid only for the EPC Class1 Gen2 air protocol).
ISO18006B DESB ON	The Data Exchange Status Bit feature is used for the anticollision algorithm execution
130100005_DE3B_ON	on the logical source (valid only for the ISO18000-6B air protocol).
ISO18006B DESB OFF	The Data Exchange Status Bit feature is not used for the anticollision algorithm
13010000 DL36 OFF	execution on the logical source (valid only for the ISO18000-6B air protocol).



CAENRFIDPort Enumeration

The CAENRFIDPort Enumeration gives a list of the communication ports supported by the CAEN RFID readers.

Syntax:

C# representation:

public enum CAENRFIDPort

JAVA representation:

public final class CAENRFIDPort

C representation:

typedef enum CAENRFIDPort;

Remarks:

In order to align the three libraries, the members name in C language have changed, now reporting the CAENRFID_suffix, but the value of the members is the same of the previous library version.

In the following table, the CAENRFIDPort Enumeration members are listed:

Member	Description
CAENRFID_RS232	Serial port communication link.
CAENRFID_TCP	TCP/IP network communication link.
CAENRFID_USB	USB communication link.

CAENRFIDProtocol Enumeration

The CAENRFIDProtocol Enumeration gives a list of the air protocol supported by the CAEN RFID readers.

Syntax:

C# representation:

public enum CAENRFIDProtocol

JAVA representation:

public final class CAENRFIDProtocol

 ${\it C\ representation:}$

typedef enum CAENRFIDProtocol;

Remarks:

In order to align the three libraries, the members name in C language have changed, now reporting the CAENRFID_suffix, but the value of the members is the same of the previous library version.

In the following table, the CAENRFIDProtocol Enumeration members are listed:

Member	Description
CAENRFID_ISO18000_6b	ISO18000-6B air protocol.
CAENRFID_EPC119	EPC 1.19 air protocol.
CAENRFID_EPC_C1G1	EPCGlobal Class1 Gen1 air protocol.
CAENRFID_ISO18000_6a	ISO18000-6A air protocol.
CAENRFID_EPC_C1G2	EPCGlobal Class1 Gen2 (aka ISO18000-6C) air protocol.
CATAIREID MILLITIPROTOCOL	This value permits to use all the supported air protocol at the same time.
CAENRFID_MULTIPROTOCOL	Suggested setting only for demo purposes.



CAENRFIDReadPointStatus Enumeration

The CAENRFIDReadPointStatus gives a list of the possible ReadPoint status values.

Syntax:

C# representation:

public enum CAENRFIDReadPointStatus

JAVA representation:

public final class CAENRFIDReadPointStatus

C representation:

typedef enum CAENRFIDReadPointStatus;

Remarks:

In order to align the three libraries, the members name in C language have changed, now reporting the STATUS_ suffix, but the value of the members is the same of the previous library version.

In the following table, the CAENRFIDReadPointStatus Enumeration members are listed:

Member	Description
STATUS_BAD	Bad antenna connection.
STATUS_GOOD	Good antenna connection.
STATUS_POOR	Poor antenna connection.

CAENRFIDRFRegulations Enumeration

The CAENRFIDRFRegulations gives a list of country radiofrequency regulations.

Syntax:

C# representation:

public enum CAENRFIDRFRegulations

JAVA representation:

public final class CAENRFIDRFRegulations

C representation:

typedef enum CAENRFIDRFRegulations;

Remarks:

In order to align the three libraries, the regulations, previously declared as #define, are now members of an enumeration, but the value of the members is the same of the previous library version.

In the following table, the CAENRFIDRFRegulations Enumeration members are listed:

Member	Description
ETSI_302208	ETSI_302208 radiofrequency regulation.
ETSI_300220	ETSI_300220 radiofrequency regulation.
FCC_US	FCC_US radiofrequency regulation.
MALAYSIA	MALAYSIA radiofrequency regulation.
JAPAN	JAPAN radiofrequency regulation.
KOREA	KOREA radiofrequency regulation.
AUSTRALIA	AUSTRALIA radiofrequency regulation.
CHINA	CHINA radiofrequency regulation.
TAIWAN	TAIWAN radiofrequency regulation.
SINGAPORE	SINGAPORE radiofrequency regulation.
BRAZIL	BRAZIL radiofrequency regulation.



CAENRFIDRS232Constants Enumeration

The CAENRFIDRS232Constants gives a list of settings for the serial port configuration.

Syntax:

C# representation:

public enum CAENRFIDRS232Constants

JAVA representation:

public final class CAENRFIDRS232Constants

C representation:

typedef enum CAENRFID_RS232_Parity;

In the following table, the CAENRFIDRS232Constants Enumeration members are listed:

Member	Description
CAENRS232_Parity_None	No parity bit is sent at all.
CAENRS232_Parity_Odd	Odd parity.
CAENRS232_Parity_Even	Even parity.
CAENRFID_RS232_FlowControl_XonXoff	Software flow control.
CAENRFID_RS232_FlowControl_Hardware	Hardware flow control.
CAENRFID_RS232_FlowControl_None	No flow control.

CAENRFIDSelUnselOptions Enumeration

The CAENRFIDSelUnselOptions gives a list of operations supported by the Group Select/Unselect command (valid only for the ISO18000-6B air protocol).

Syntax:

C# representation:

public enum CAENRFIDSelUnselOptions

JAVA representation:

public final class CAENRFIDSelUnselOptions

C representation:

In the following table, the CAENRFIDSelUnselOptions Enumeration members are listed:

Member	Description
SEL_EQUAL	select equal to.
SEL_NOT_EQUAL	select not equal to.
SEL_GREATER_THAN	select greater than.
SEL_LOWER_THAN	select lower than.
UNS_EQUAL	unselect equal to.
UNS_NOT_EQUAL	unselect not equal to.
UNS_GREATER_THAN	unselect greater than.
UNS_LOWER_THAN	unselect lower than.



6

CAENRFID Obsolete Methods

This chapter gives a list of CAENRFID obsolete methods, functions, members and data types. It contains these topics:

- C# Obsolete Methods
- C# Obsolete Members
- JAVA Obsolete Methods
- C Obsolete Functions
- C Obsolete Data Types





Below it is available a list of obsolete methods, functions, members and data types for the three different program languages.

It is recommended not to use these methods since they will not be available in new reader's firmware release. Some of these obsolete methods have been replaced by new ones as specified in the table below.

C# Obsolete Methods

Method	Description
Channel Class	
AddSource	This method is now obsolete.
AddTrigger	This method is now obsolete.
GetChannelStatus	This method is now obsolete.
GetChannelType	This method is now obsolete.
GetName	This method is now obsolete.
IsSourcePresent	This method is now obsolete.
IsTriggerPresent	This method is now obsolete.
RemoveSource	This method is now obsolete.
RemoveTrigger	This method is now obsolete.
LogicalSource Class	
AddTrigger	This method is now obsolete.
GetLostThreshold	This method is now obsolete.
GetObservedThreshold	This method is now obsolete.
Inventory	This method is now obsolete.
KillTag	This method is now obsolete.
LockTag	This method is now obsolete.
NXP_Calibrate	This method is now obsolete.
ProgramID	This method is now obsolete.
RemoveTrigger	This method is now obsolete.
SetLostThreshold	This method is now obsolete.
SetObservedThreshold	This method is now obsolete.
Reader Class	
ConnectRS232	This method is now obsolete.
CreateChannel	This method is now obsolete.
CreateTrigger	This method is now obsolete.
FWUpgradeTFTP	This method is now obsolete.
GetAllocatedChannels	This method is now obsolete.
GetAllocatedTriggers	This method is now obsolete.
GetChannelData	This method is now obsolete.
GetDESB	This method is now obsolete.
GetEventMode	This method is now obsolete.
RemoveChannel	This method is now obsolete.
RemoveTrigger	This method is now obsolete.
SetDESB	This method is now obsolete.
SetEventMode	This method is now obsolete.
SetReaderOPtions	This method is now obsolete.
Receiver Class	
KillServer	This method is now obsolete.
Trigger Class	
GetIOLineValue	This method is now obsolete.
GetName	This method is now obsolete.
GetTimerValue	This method is now obsolete.
IsLinkedToChannel	This method is now obsolete.
IsLinkedToSource	This method is now obsolete.

Tab. 6.1: C# Obsolete Methods



C# Obsolete Members

Member	Description	
BitRate Enumeration		
TX10RX40	This member is now obsolete.	
TX40RX40	This member is now obsolete.	
TX40RX160	This member is now obsolete.	
EventMode Enumeration		
READCYCLE_MODE	This member is now obsolete.	
TIME_MODE	This member is now obsolete.	
NOEVENT_MODE	This member is now obsolete.	
TagEventType Enumeration		
TAG_GLIMPSED	This member is now obsolete.	
TAG_LOST	This member is now obsolete.	
TAG_OBSERVED	This member is now obsolete.	
TAG_UNKNOWN	This member is now obsolete.	

Tab. 6.2: C# Obsolete Members

JAVA Obsolete Methods

Method	Description
BitRate Class	•
TX10RX40	This method is now obsolete.
TX40RX40	This method is now obsolete.
TX40RX160	This method is now obsolete.
Channel Class	
AddSource	This method is now obsolete.
AddTrigger	This method is now obsolete.
GetChannelStatus	This method is now obsolete.
GetChannelType	This method is now obsolete.
GetName	This method is now obsolete.
IsSourcePresent	This method is now obsolete.
IsTriggerPresent	This method is now obsolete.
RemoveSource	This method is now obsolete.
RemoveTrigger	This method is now obsolete.
Event Class	
Data	This method is now obsolete. Use getData instead.
EventMode Class	
READCYCLE_MODE	This method is now obsolete.
TIME_MODE	This method is now obsolete.
NOEVENT_MODE	This method is now obsolete.
LogicalSource Class	
AddTrigger	This method is now obsolete.
GetLostThreshold	This method is now obsolete.
GetObservedThreshold	This method is now obsolete.
Hitachi CatsustamInfa	This method is now obsolete.
Hitachi_GetSystemInfo	Use Hitachi_GetSystemInformation instead.
Inventory	This method is now obsolete.
NXP_Calibrate	This method is now obsolete.
NXP_ChangeEAS (only non secure version)	This method is now obsolete.
NXP_EAS_Alarm (only secure version)	This method is now obsolete.
NXP_ResetReadProtect (only secure version)	This method is now obsolete.
RemoveTrigger	This method is now obsolete.
SetLostThreshold	This method is now obsolete.
SetObservedThreshold	This method is now obsolete.
Notify Class	
getAntenna	This method is now obsolete. Use getReadPoint instead.
Reader Class	
CreateChannel	This method is now obsolete.
CreateTrigger	This method is now obsolete.



Method	Description	
FWUpgradeTFTP	This method is now obsolete.	
GetAllocatedChannels	This method is now obsolete.	
GetAllocatedTriggers	This method is now obsolete.	
GetChannelData	This method is now obsolete.	
GetEventMode	This method is now obsolete.	
RemoveChannel	This method is now obsolete.	
RemoveTrigger	This method is now obsolete.	
SetEventMode	This method is now obsolete.	
SetReaderOPtions	This method is now obsolete.	
Receiver Class		
KillServer	This method is now obsolete.	
TagEventType Class		
TAG_GLIMPSED	This method is now obsolete.	
TAG_LOST	This method is now obsolete.	
TAG_OBSERVED	This method is now obsolete.	
TAG_UNKNOWN	This method is now obsolete.	
Trigger Class		
GetIOLineValue	This method is now obsolete.	
GetName	This method is now obsolete.	
GetTimerValue	This method is now obsolete.	
IsLinkedToChannel	This method is now obsolete.	
IsLinkedToSource	This method is now obsolete.	
HitachiSysInfo		
GetBankLock	This method is now obsolete.	
GetBlockReadLock	This method is now obsolete.	
GetBlockReadWriteLock	This method is now obsolete.	
GetBlockWriteLock	This method is now obsolete.	
GetInfoFlag	This method is now obsolete.	
getReserved	This method is now obsolete.	
getSetAttenuateLevel	This method is now obsolete.	
getTID	This method is now obsolete.	
getUII	This method is now obsolete.	
getUser	This method is now obsolete.	

Tab. 6.3: JAVA Obsolete Methods



C Obsolete Functions

Addivotifyinger This function is now obsolete. AllocateTrigger This function is now obsolete. AllocateTrigger This function is now obsolete. Use CustomCmd, CIG2 Use CustomCmd, CIG2 Use CustomCmd and CIG2 This function is now obsolete. FirmwareUpgrade This function is now obsolete. FirmwareUpgrade This function is now obsolete. GetAllocatedChannels This function is now obsolete. GetAllocatedChannels This function is now obsolete. GetAllocatedChannels This function is now obsolete. GetChannelData This function is now obsolete. GetChannelData This function is now obsolete. GetChannelData This function is now obsolete. GetChannelStatus This function is now obsolete. GetEVentMode GetEVentMode GetEVentMode This function is now obsolete. GetEVentMode GetEVentMode This function		- · · ·
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RemoveSourceFromChannel This function is now obsolete.	RemoveNotifyTrigger	This function is now obsolete.
	RemoveReadTrigger	This function is now obsolete.
SecureCustomCmd_C1G2 This function is now obsolete.	RemoveSourceFromChannel	This function is now obsolete.
	SecureCustomCmd_C1G2	This function is now obsolete.



Function	Description
	Use SecureCustomCommand_EPC_C1G2 instead.
Secural cele C1C3	This function is now obsolete.
SecureLock_C1G2	Use SecureLockTag_EPC_C1G2 instead.
Cooura Drogram ID C1C3	This function is now obsolete.
SecureProgramID_C1G2	Use SecureProgramID_EPC_C1G2 instead.
Cooura Dood C1C2	This function is now obsolete.
SecureRead_C1G2	Use SecureReadTagData_EPC_C1G2 instead.
Sagural Mirita C1C2	This function is now obsolete.
SecureWrite_C1G2	Use SecureWriteTagData_EPC_C1G2 instead.
Cathituata	This function is now obsolete.
SetBitrate	Use CAENRFID_SetBitRate instead.
Coad Co	This function is now obsolete.
SetDE_SB	Use SetDESB_ISO180006B instead.
SetEventMode	This function is now obsolete.
SetModulation	This function is now obsolete.
Sat 0 C1 C2	This function is now obsolete.
SetQ_C1G2	Use SetQValue_EPC_C1G2 instead.
CatO EDC C1C3	This function is now obsolete.
SetQ_EPC_C1G2	Use SetQValue_EPC_C1G2 instead.
SetSourceConfiguration	This function is now obsolete.
Write	This function is now obsolete. Use WriteTagData instead.
Mysta C1C2	This function is now obsolete.
Write_C1G2	Use WriteTagData_EPC_C1G2 instead.

Tab. 6.4: C Obsolete Functions

C Obsolete Data Types

Data Type	Description	
ETSI302208		
ETSI300220		
FCCUS		
MALAYSIA		
JAPAN	This data type is now obsolete.	
KOREA	Use enum CAENRFIDRFRegulations instead.	
AUSTRALIA		
CHINA		
TAIWAN		
SINGAPORE		
CAENRFID_SOURCE_Parameter		
CONFIG READCYCLE	This data type is now obsolete.	
CONTIG_READCTCLE	Use Get/SetReadCycle Method instead.	
CONFIG_OBSERVEDTHRESHOLD	This data type is now obsolete.	
CONFIG_LOSTTHRESHOLD	This data type is now obsolete.	
CONFIG_G2_Q_VALUE	This data type is now obsolete.	
CONFIG_GZ_Q_VALUE	Use Get/SetQ_EPC_C1G2 Method instead.	
CONFIG G2 SESSION	This data type is now obsolete.	
CONTIG_G2_3E33101V	Use Get/SetSession_EPC_C1G2 Method instead.	
CONFIG_G2_TARGET	This data type is now obsolete.	
CONTIG_GZ_TANGET	Use Get/SetTarget_EPC_C1G2 Method instead.	
CONFIG_G2_SELECTED	This data type is now obsolete. Use Get/SetSelected_EPC_C1G2	
CONFIG_GZ_SELECTED	Method instead.	
CONFIG_ISO18006B_DESB	This data type is now obsolete.	
COM 10_13010000B_BE3B	Use Get/SetDESB_ISO180006B Method instead.	
CAENRFID_EventMode		
READCYCLE_MODE	This data type is now obsolete.	
TIME_MODE	This data type is now obsolete.	
NOEVENT_MODE	This data type is now obsolete.	
CAENRFID_FWUpgradeType		
RFID_TFTP	This data type is now obsolete.	
CAENRFID_ExtendedInventoryParams	This data type is now obsolete.	

Tab. 6.5: C Obsolete Data Types