



EN Installation and Configuration

AEOS QR code

Version 2

| 16-10-2018



Date	Version	Changes
16-10-2018	2	Corrections in AEmon event monitor example 1
18-09-2018	1	New document



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1. Introduction

AEOS lets you generate and print QR codes and use them as identifiers. This feature is available in AEOS 3.4 and newer versions.

Whether they're printed or digital, QR codes replace the need for physical plastic cards, which makes using them as identifiers a cost-effective, smart and sustainable option. It saves the costs of buying, handling and printing plastic cards. And, while QR code solutions aren't suitable for high-security areas, they can help to improve the efficiency of handling visitors in common areas of buildings or in car parks.

A typical example of how they can be used is to send a QR code to a visitor's mobile phone, which allows them to enter a car park without having to call reception. They just present the QR code to the QR reader to gain access.

QR code model 2

AEOS QR codes are based on QR code model 2. They contain the customer code, identifier number, carrier name and validity. You can use **any** QR reader that supports QR code model 2 and OSDP or Wiegand to scan them.

OSDP or Wiegand protocol

The AEOS QR code functionality uses either the OSDP or the Wiegand protocol.

MACE MM QR reader

In this manual, we use the Nedap MACE MM QR Reader to read the AEOS QR codes. This device includes a QR reader that enables reading QR-codes displayed on a smartphone. For more information on the Nedap MACE MM QR Reader, please visit www.nedapidentification.com.

About this manual

This manual describes how you can use QR codes as identifiers in AEOS.

Chapter 2 shows you how the reader hardware must be connected to the AEOS Blue controller.

The next chapters provide step-by-step instructions to configure the QR code reader and AEmon for an OSDP interface (chapter 3 and 4) or a Wiegand interface (chapter 5 and 6).

Chapter 7 and 8 describe how to configure AEOS and how to actually issue QR code identifiers.

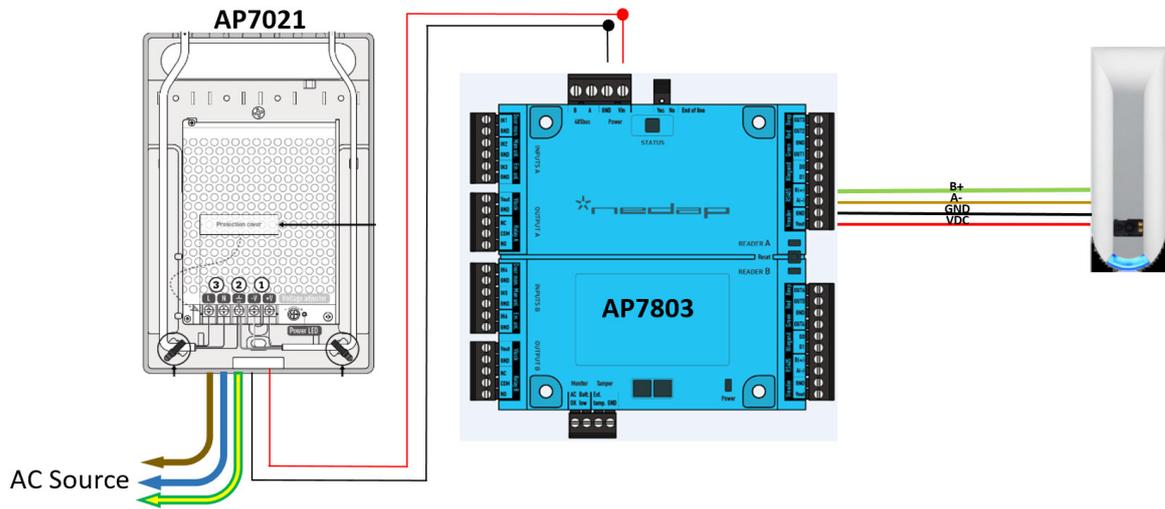
When a QR code is presented to the QR reader, an event must show in the AEmon event monitor. How you can check this is described in chapter 9.

Finally, chapter 10 contains recommendations to optimise QR code security by using different AEOS options and check AEOS system property settings.



2. Connection overview

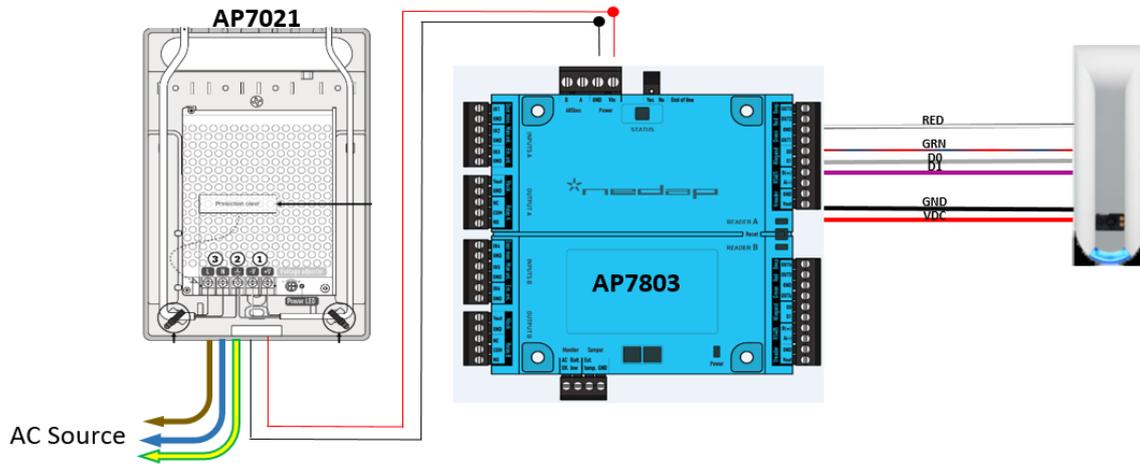
2.1 Connection overview for an OSDP interface



AP7803		MACE reader
Green Red Beep	OUT3	
	OUT2	
	GND	
	OUT1	
Wiegand	D0	
	D1	
RS485	B(+)	B+ (GREEN)
	A(-)	A- (BROWN)
Vreader	GND	GND (BLACK)
	Vout	VDC (RED)



2.2 Connection overview for a Wiegand interface



AP7803		MACE reader
Green Red Beep	OUT3	Beeper_In (BLUE)
	OUT2	LED_NA_IN (WHITE)
	GND	
	OUT1	LED_UL_IN (RED/BLUE)
Wiegand	D0	DATA 0 (GRAY)
	D1	DATA 1 (PINK)
RS485	B(+)	
	A(-)	
Vreader	GND	GND (BLACK)
	Vout	VDC (RED)



3. Configuring the QR code reader (MACE reader) for OSDP

AEOS QR codes are based on QR code model 2. They contain the customer code, identifier number, carrier name and validity. You can use **any** QR reader that supports QR code model 2 and OSDP or Wiegand to scan them. In this manual, we use the Nedap MACE MM QR Reader to read the AEOS QR codes. This device includes a QR reader that enables reading QR-codes displayed on a smartphone. For more information on the Nedap MACE MM QR Reader, please visit www.nedapidentification.com.

The information in the AEOS QR code is encoded as a text (ASCII) string value. The MACE MM QR reader can only push the string value to its serial interface, which is the USB or RS485. After removing the text characters, the MACE MM QR reader can convert the value to HEX or DEC. In this example, we will keep using the text string.

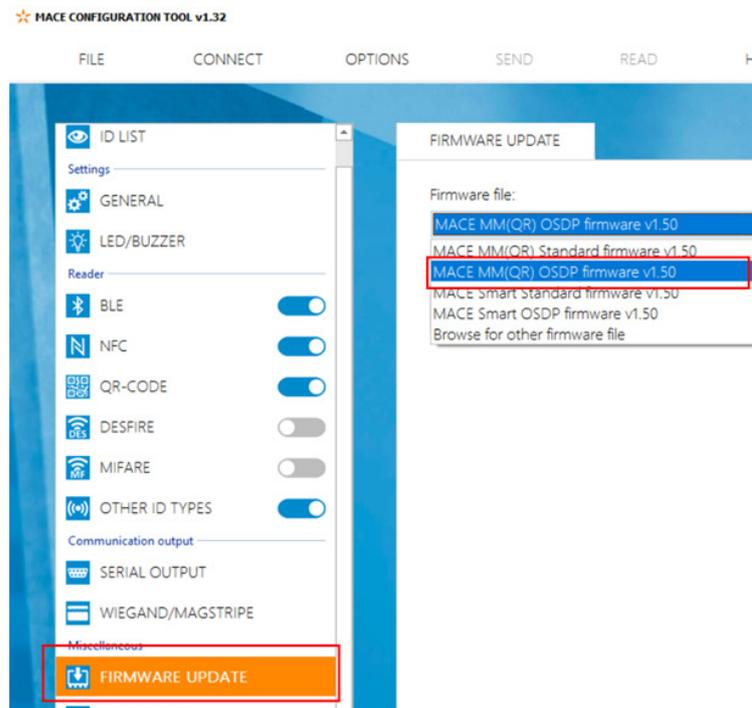
In order to receive the string value, the AEOS Blue controller must connect to MACE MM QR reader using RS485 as OSDP interface. Both the MACE reader and the AEOS Blue controller must use the OSDP protocol. Therefore, the firmware for both the MACE reader and the AEOS Blue controller must be changed to OSDP.

To configure the MACE reader for OSDP, take the following steps:

Step 01

Change the MACE reader firmware to OSDP

1. Go to www.nedapidentification.com. Download and install the *MACE configuration tool*.
2. Connect the MACE MM QR reader via USB to the computer.
3. Open the MACE configuration tool.
4. Click **Firmware update**.
5. Click the 'open folder' icon and select the **MACE MM QR OSDP firmware**.
6. Click **Update**.



After changing the firmware, the MACE reader will be disconnected. You must reconnect the MACE MM QR reader using the OSDP protocol.

7. Click **Connect**.
8. Select **OSDP** and check the other settings.
9. Click **OK**.

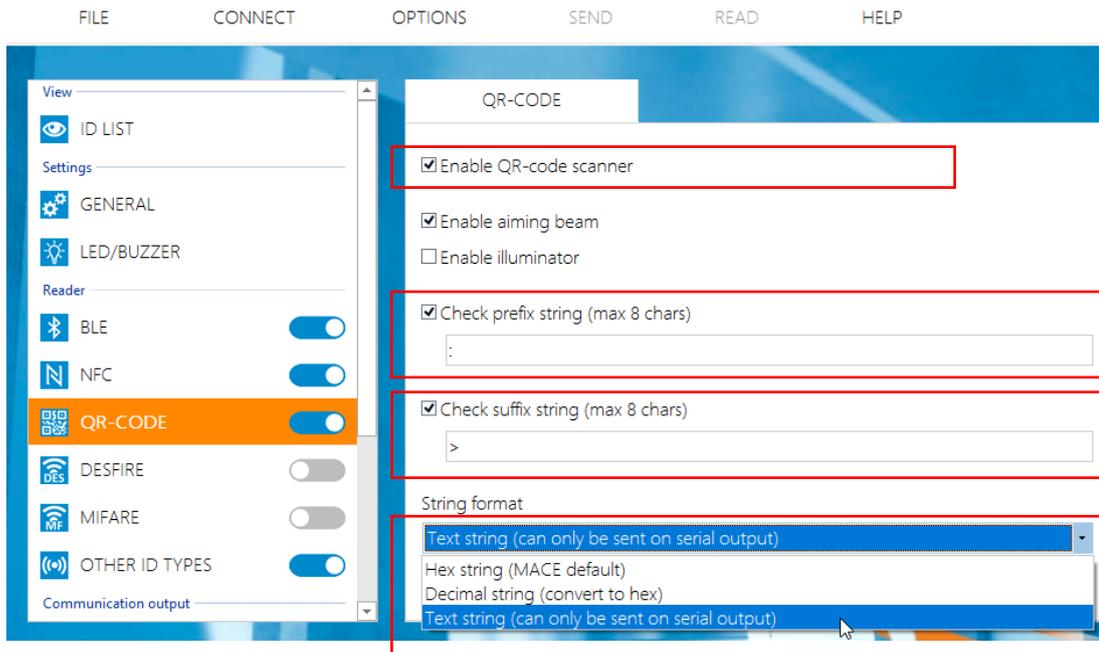




Step 02

Configure the QR-code function in the MACE MM QR reader

1. Go to **Options > User mode**. Switch to the **Advanced** user mode.
2. Enable the **QR-code** function.



3. Set the **check prefix string** to **:** and the **check suffix string** value to **>**.
 These options are used to determine the ID number location. The MACE MM QR reader needs them to push only the ID-number and not the other characters. The Check prefix string is **:** because AEOS puts this character in front of the ID number. The Check suffix string is **>** because AEOS puts this character behind the ID number.

Example

Without these settings:

ID LIST						
Identification list						
No.	Count	Source	Type	ID-number	Description	
1	1	BARCODE	TEXT	<Id:138276><Name:Smith, John><From:Thu Aug 30 16:00:44	TEXT STRING	

With these settings:



ID LIST				
Identification list				
No.	Count	Source	Type	ID-number
1	1	BARCODE	TEXT	138276

4. Set the string format to **Text string**.
This option reads and pushes the value (ID-number) as text to AEOS.
5. Click **Serial output**. Set ID-number to **Complete**.

SERIAL OUTPUT	
<input checked="" type="checkbox"/>	Add ID source (B)
<input checked="" type="checkbox"/>	Add ID type (C)
	ID number (N)
<input type="text" value="Complete"/>	
<input type="checkbox"/>	Convert to decimal



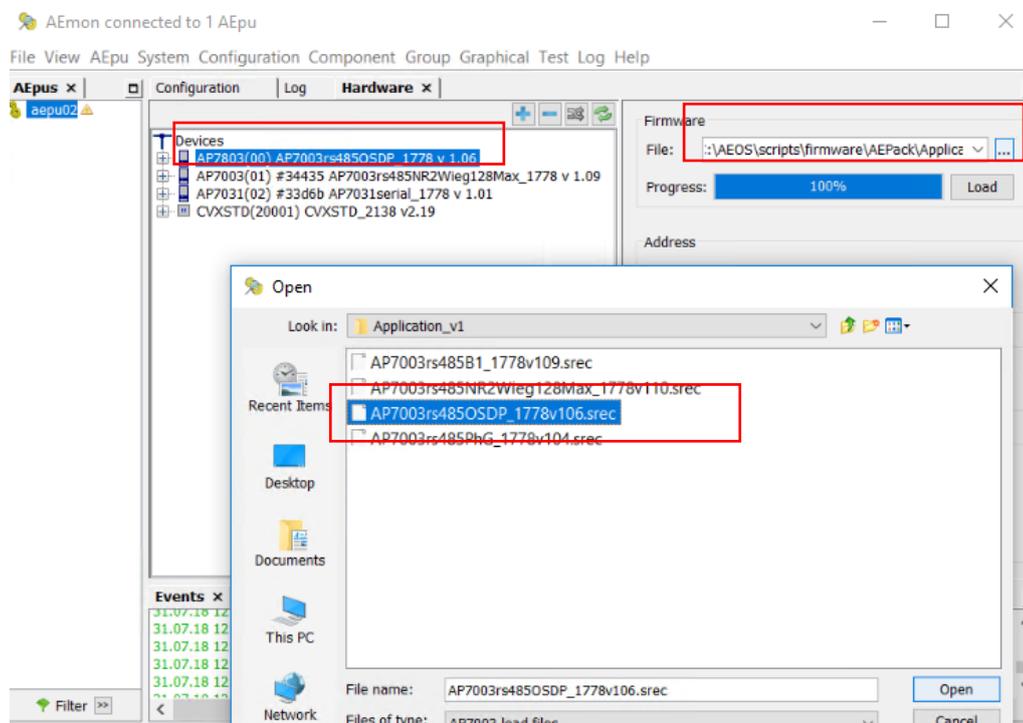
4. Configuring AEMON for OSDP

To configure AEMON for the QR code function via OSDP, take the following steps:

Step 01

Configure the AEOS Blue controller in AEMON

1. Start AEMON.
2. Select the AEOS Blue controller you want to update.
3. Go to **View > Hardware**.
4. In the **Firmware** section at the right side of the window, click the [...] button next to the File field. This opens the C:\AEOS\scripts\firmware folder. The different firmware versions are stored in different subfolders.
5. From the **Files of type** drop-down list, select the file type that is compatible with the selected hardware. This will only show the firmware files that are compatible with your selected hardware.
6. Select the correct OSDP firmware file from the correct folder.
7. Click **Open**.
8. Click the **Load** button to start the firmware update.

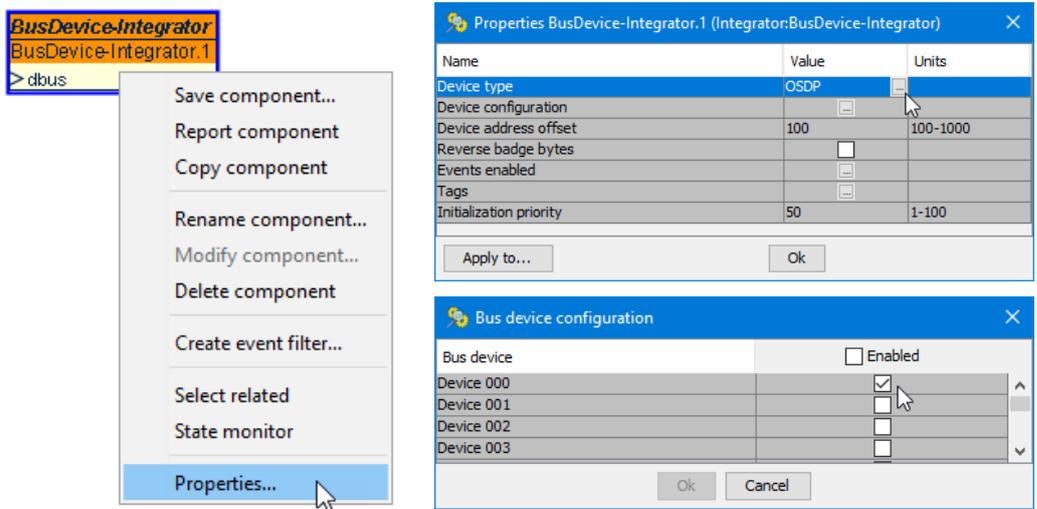




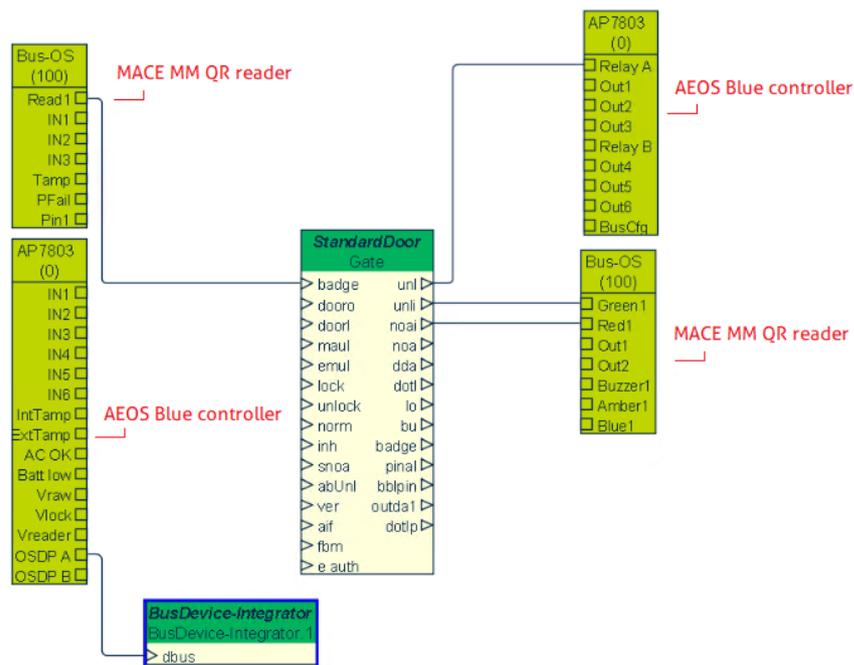
Step 02

Configure the MACE reader as OSDP reader in AEmon

1. In AEmon, create/open the configuration (see the *AEOS Access Points and Entrances* manual).
2. Right-Click the **BusDevice-Integrator** AEbc, and click **Properties**.
3. Open the **device type** editor and select **OSDP**. Click **OK**.
4. Open the **device configuration** editor and enable **Device 000**. Click **OK**.
5. Press **CTRL+E** and click **Yes** to deploy the configuration.

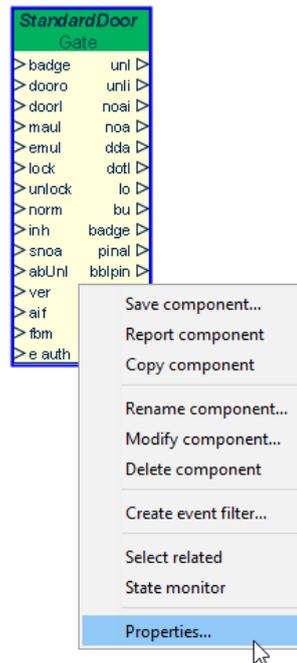


Configuration example



**Step
03****Configure the identifier type in AEmon**

1. Right-Click the **StandardDoor** AEbc, and click **Properties**.



2. Open the **Identifier type** editor and select **Generic**.
3. Set the **Format** to **Ascii-numeric** and select **Numeric**
4. Set the **Bit position** to **16**. Check the other settings. In this example, we set the **Length** to **6** bytes (for we use a 6-digit number). Click **OK**.
5. Press **CTRL+E** and click **Yes** to deploy the configuration.



The identifier type settings must match the settings in AEOS, see chapter 7.



Identifier Type ✕

Identifier type: **Generic**

Input Settings	AEServer Settings
Sub type: <input type="text" value="1"/>	Identifier type: <input type="text" value="Numeric"/>
<input type="checkbox"/> Data type filter: <input type="text"/>	Identifier length: <input type="text"/>
Badge number	Identifier minimum v...: <input type="text" value="1"/>
Format: <input type="text" value="Ascii-Numeric"/> <input checked="" type="radio"/> Numeric <input type="radio"/> Hex	Identifier maximum ...: <input type="text" value="999999"/>
Bit posi...: <input type="text" value="16"/>	Sub type: <input type="text" value="1"/>
Length: <input type="text" value="6"/> bytes	Customer code type: <input type="text" value="Numeric"/>
Customer code	Customer code length: <input type="text"/>
<input type="checkbox"/> Fixed code	
Format: <input type="text" value="Ascii-Numeric"/> <input checked="" type="radio"/> Numeric <input type="radio"/> Hex	
Bit posi...: <input type="text" value="0"/>	
Length: <input type="text" value="0"/> bytes	
Target Identifier	
Type: <input type="text" value="Generic"/>	
<input type="checkbox"/> Reverse bytes	



5. Configuring the QR code reader (MACE reader) for Wiegand

AEOS QR codes are based on QR code model 2. They contain the customer code, identifier number, carrier name and validity. You can use **any** QR reader that supports QR code model 2 and OSDP or Wiegand to scan them. In this manual, we use the Nedap MACE MM QR Reader to read the AEOS QR codes. This device includes a QR reader that enables reading QR-codes displayed on a smartphone. For more information on the Nedap MACE MM QR Reader, please visit www.nedapidentification.com.

The information in the AEOS QR code is encoded as a text (ASCII) string value. After removing the text characters, the MACE MM QR reader can convert the value to HEX or DEC. In this example, the MACE MM QR reader will convert the value to DEC.

To configure the MACE reader for Wiegand, take the following steps:

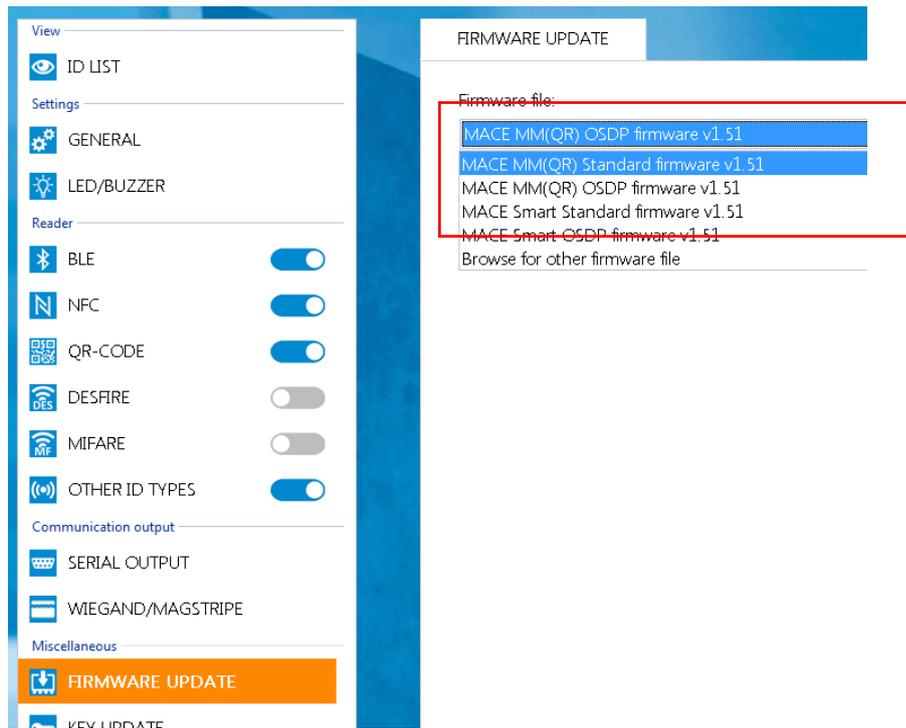
Step 01

Change the MACE reader firmware to Standard

1. Go to www.nedapidentification.com. Download and install the *MACE configuration tool*.
2. Connect the MACE MM QR reader via USB to the computer.
3. Open the MACE configuration tool.
4. Check the firmware.

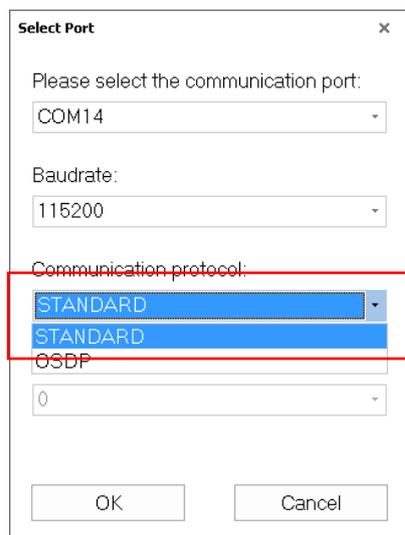
By default, the MACE reader already uses the standard firmware. Only when the default setting has been changed, you must reset it to **Standard**.

5. Click **Firmware update**.
6. Click the 'open folder' icon and select the **MACE MM QR Standard firmware**.
7. Click **Update**.



After changing the firmware, the MACE reader will be disconnected. You must reconnect the MACE MM QR reader using the STANDARD protocol.

8. Click **Connect**.
9. Select **STANDARD** and check the other settings.
10. Click **OK**.

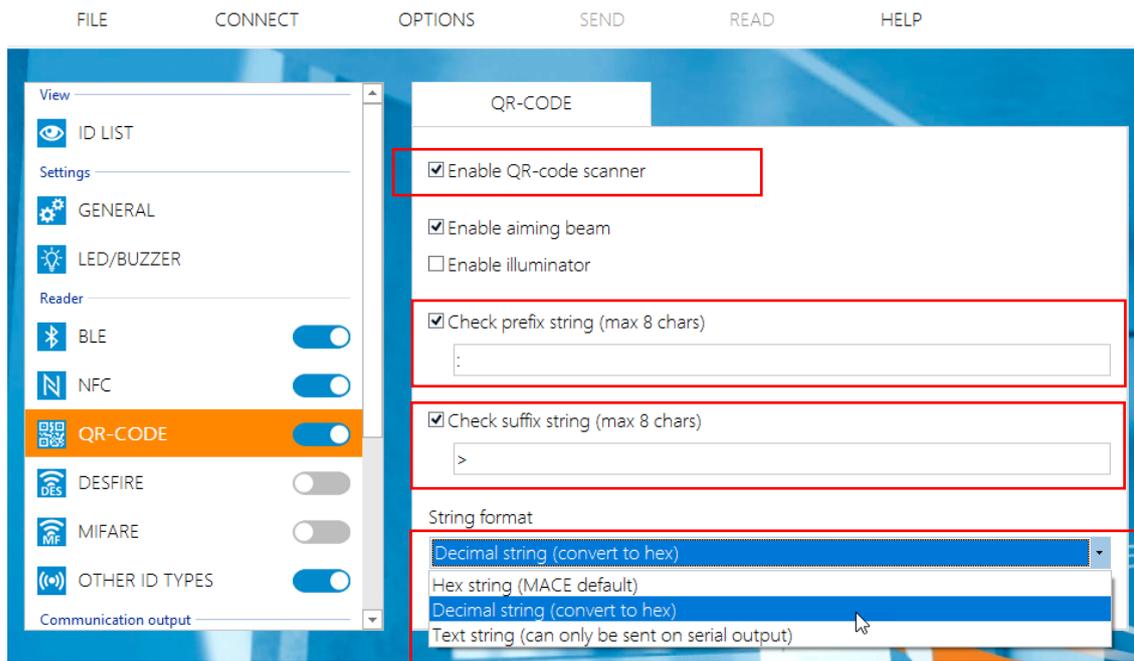




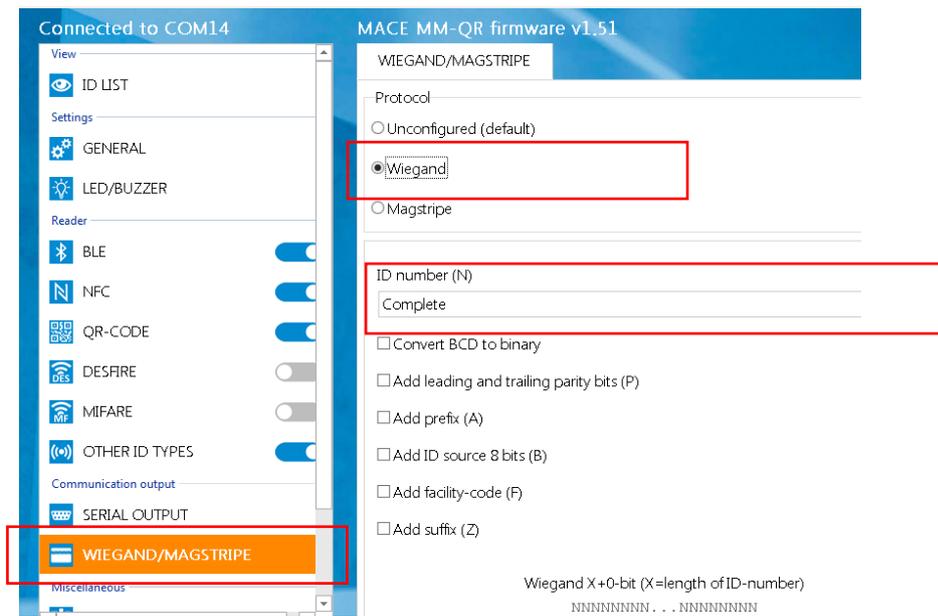
Step 02

Configure the QR-code function in the MACE MM QR reader

1. Go to **Options > User mode**. Switch to the **Advanced** user mode.
2. Enable the **QR-code** function.



3. Set the **check prefix string** to **:** and the **check suffix string** value to **>**.
These options are used to determine the ID number location. The MACE MM QR reader needs them to push only the ID-number and not the other characters. The Check prefix string is **:** because AEOS puts this character in front of the ID number. The Check suffix string is **>** because AEOS puts this character behind the ID number.
4. Set the string format to **Decimal string**.
This option reads and pushes the value (ID-number) as decimal string to AEOS.
5. Click **Wiegand/Magstripe**. Select **Wiegand** and set the **ID-number** to **Complete**.



Example

Note that in the ID List the **Type** is now **RAW** and the **ID-number** is the HEX value of the decimal value (138276).

ID LIST					
Identification list					
No.	Count	Source	Type	ID-number	Description
1	1	BARCODE	RAW	02 1C 24	RAW HEX DATA



6. Configuring AEMON for Wiegand

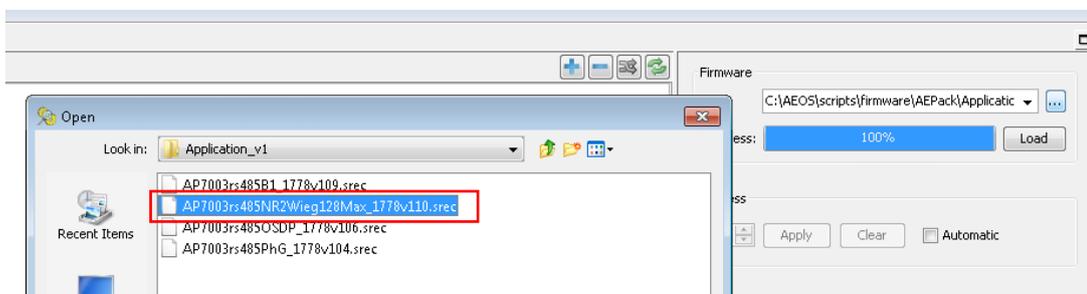
To configure AEMON for the QR code function via Wiegand, take the following steps:

Step 01

Configure the AEOS Blue controller in AEMON

By default, the AEOS blue controller already uses the correct firmware for the Wiegand interface. Only when the default setting has been changed, you must change it back.

1. Start AEMON.
2. Select the AEOS Blue controller you want to update.
3. Go to **View > Hardware**.
4. In the **Firmware** section at the right side of the window, click the [...] button next to the File field. This opens the C:\AEOS\scripts\firmware folder. The different firmware versions are stored in different subfolders.
5. From the **Files of type** drop-down list, select the file type that is compatible with the selected hardware. This will only show the firmware files that are compatible with your selected hardware.
6. Select the correct Wiegand firmware file from the correct folder.
7. Click **Open**.
8. Click the **Load** button to start the firmware update.

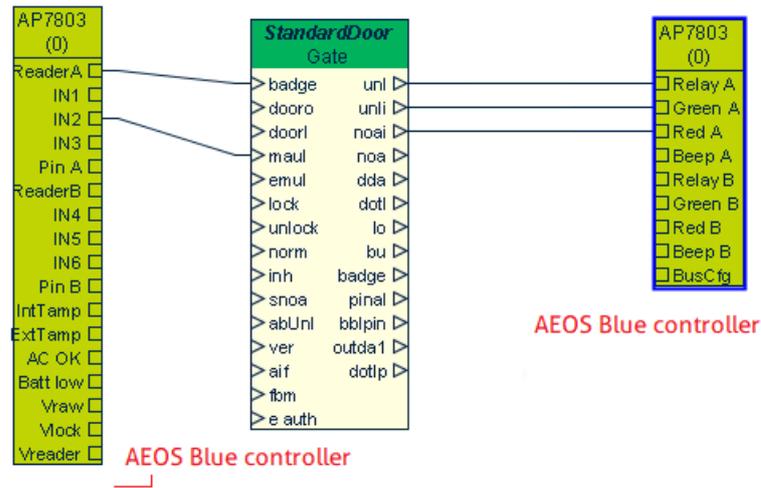


Step 02

Configure the MACE reader in AEMON

1. In AEMON, create/open the configuration (see the *AEOS Access Points and Entrances* manual).
2. Press **CTRL+E** and click **Yes** to deploy the configuration.

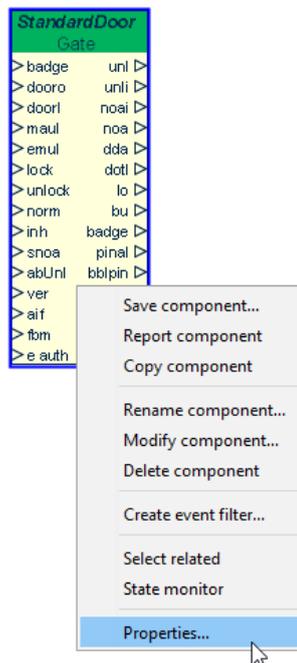
Configuration example



Step 03

Configure the identifier type in AEmon

1. Right-Click the **StandardDoor** AEbc, and click **Properties**.



2. Open the **Identifier type** editor and select **Generic**.
3. Set the **Format** to **Binary** and select **Numeric**
4. Set the **Bit position** to **8**. Check the other settings. In this example, we set the **Length** to **24** bits (for we use a 6-digit number). Click **OK**.
5. Press **CTRL+E** and click **Yes** to deploy the configuration.



The identifier type settings must match the settings in AEOS, see chapter 7.



7. Configuring AEOS

To configure AEOS for the QR code function, take the following steps:

Step 01

Define the QR code identifier type in AEOS

To define the QR identifier type, which is a 'generic' AEOS identifier type, do as follows:

1. Go to **Administration > Maintenance > Identifiers > Identifier types**.
2. Click **New**.
3. Enter a **Name** and **Sub type**, **Customer code type**, **Identifier length**, **minimum value** and **maximum value**.



The identifier type settings must match the settings in AEmon, see chapter 4 (for OSDP) or 6 (for Wiegand).

4. Enable the (random) token generator.
Note that you can always enter a self-chosen identifier number when you issue a QR code identifier, even when the (random) token generator is enabled.
5. Set the Printable option to **Yes** or **Optional**.
When the **Printable** option for the QR code identifier type is set to **Yes**, the print dialogue will open automatically when you issue a QR code. When the **Printable** option is set to **Optional**, pressing the **Print** button will start the print dialogue.
6. Set the **Print format** to **QR code**.
7. Click **OK**.



You can only use one printable identifier type at once, either a *bar code* or a *QR code*.

**Step
02****Install printer**

AEOS uses Windows system printers to print QR codes, so there's no need to install a special badge printer or label printer.

**Step
03****Attach QR codes to e-mails (optional)**

QR codes can be attached to e-mails as .jpg files and sent automatically. To enable this, you must create a response (**Send e-mail**) to a user action (**Issue badge**).

1. Go to **Configuration > Responses > Response to user action**.
2. Click **New**.
3. In the **Response** field, select **Send E-mail**.
4. In the **User action** field, Select **Issue badge**.
5. Click the [**>>**] button to edit the restrictions and select the carrier type and the QR code identifier type.
6. Click **OK**.
7. Select a **Day/Time** schedule.
8. Select **Enabled**.
9. Select **Create**.
10. In the **Notify** field, select **Person involved**.
11. Enter a **Description, E-mail subject** and **body**.
For an overview of the available wildcards, see the Response to user action section in the *AEOS User Manual*.
12. Enable the **Attach QR code** checkbox.
13. Click **OK**.



aeos Management Administration Authorisation Person Vehicle Entrance Configuration Monitor administrator Administrator

Menu

- Maintenance
- APB
- Guidance
- License
- Zones
- Counting
- Responses
 - Response to event
 - Response to user action
 - Response to expiry date

Response to user action

Edit Response to user action

Response: Send E-mail
User Action: Issue badge
Date time schedule: always
Enabled:

Response is executed when the following user action is performed

Create:
Replace:
Update:
Delete:

Notify: Person involved
Notify Contact Person:

More

Description: Issue QR code
Default language: English
Message language: English

Text/E-mail subject: AEOS QR code identifier
Text/E-mail body: Dear \$carriername
Please find attached your AEOS QR code identifier.
Identifier: \$token
Kind regards,

Attach QR code:

Edit Identifier Restriction Data

Carrier type: Persons
Identifier type: QR code (random)

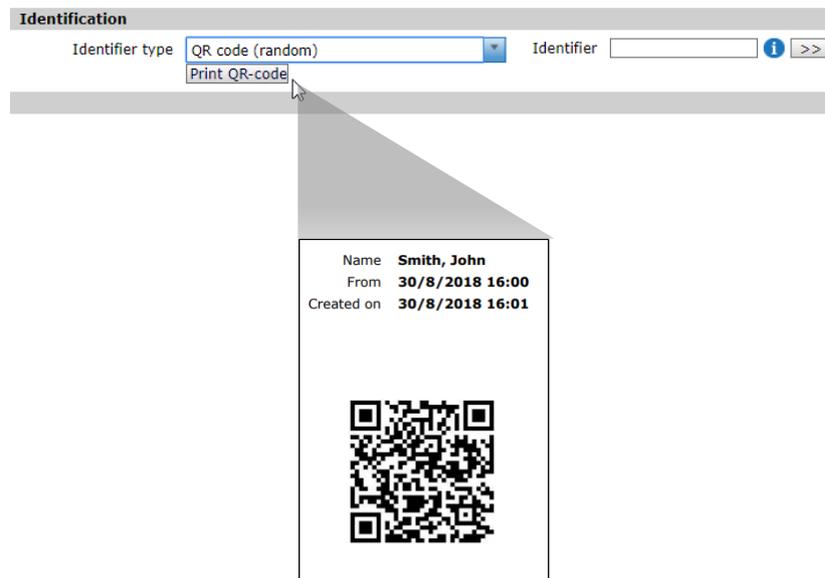


8. Issuing and printing QR codes

To issue and print QR codes, do as follows:

1. Go to the **Visitor/Employee/Contractor > Announce** screens.
2. In the **Identifier Type** field, select the **QR code** identifier type.
3. When the **Printable** option for the QR code identifier type is set to **Yes**, the print dialogue will open automatically when you issue a QR code. When the **Printable** option is set to **Optional**, press the **Print** button to open the print dialogue.
4. Click **OK** to print the QR code.
5. Close the print dialogue.
6. Click **OK** to save the carrier data.

The **Print** button can also be used to reprint QR codes that have already been issued.



Issue and print a QR code identifier in AEOS

Text read by QR reader:

`Id:138276<<Name:Smith, John><From:Thu Aug 30 16:00:44 CEST 2018>`



9. Checking the AEmon event monitor

When a QR code is presented to the QR reader, an event must show in the AEmon event monitor:

Example 1: OSDP

This image shows an example of an AEmon event log for an OSDP interface. On the read value, (0000380)313338323736 is the ASCII value for 138276 (DEC).

```

Events x
31.07.18 16:35:50.27 AP7803(0).OSDP A.cmd = 53801400075000040000380313338323736e6c1
31.07.18 16:35:50.27 Bus-OSDP-Device(100).Read1.value = 0000380313338323736
31.07.18 16:35:50.28 Gate.Busy = 1
31.07.18 16:35:50.28 Gate.Unlock = 1
31.07.18 16:35:50.29 Gate.Unlock Indication = 1
31.07.18 16:35:50.30 Gate.Badge = 0000380313338323736
31.07.18 16:35:50.30 BadgeAccessEvent(1533040550306, name=Gate, host=aepu02, direction=1, carrierId=532,
id=ExternalizableAccessIdentifier[type=0x2,bytes=010100021c24], verifier type=No Verifier, verification details=No, ACConfigurationNid=default)
31.07.18 16:35:50.31 Gate.Output Data1 = LabelValueMessage= labelname: Authorized badge unlock, value: active
31.07.18 16:35:50.37 Bus-OSDP-Device(100).Read1.value = empty
31.07.18 16:35:50.80 Gate.Badge = empty
31.07.18 16:35:55.37 Gate.Busy = 0
31.07.18 16:35:55.37 Gate.Unlock = 0

```

Example 2, Wiegand

This image shows an example of an AEmon event log for a Wiegand interface. On the read value, (030818)021c24 is the HEX value for 138276 (DEC).

```

Events x
26.08.18 16:33:29.48 AP7803(0).ReaderA.value = 030818021c24
26.08.18 16:33:29.50 Gate.Busy = 1
26.08.18 16:33:29.50 Gate.Unlock = 1
26.08.18 16:33:29.51 Gate.Unlock Indication = 1
26.08.18 16:33:29.51 Gate.Badge = 030818021c24
26.08.18 16:33:29.51 BadgeAccessEvent(1535286809518, name=Gate, host=aepu02, direction=1, carrierId=511, id=ExternalizableAccessIdentifier[type=0x2,bytes
26.08.18 16:33:29.52 Gate.Output Data1 = LabelValueMessage= labelname: Authorized badge unlock, value: active
26.08.18 16:33:30.01 Gate.Badge = empty
26.08.18 16:33:30.49 AP7803(0).ReaderA.value = empty
26.08.18 16:33:35.49 Gate.Busy = 0
26.08.18 16:33:35.49 Gate.Unlock = 0
26.08.18 16:33:35.50 Gate.Unlock Indication = 0

```

For more information on the AEmon event monitor, see the *AEOS Access Points and Entrances* manual.



10. Security recommendations

QR code solutions can help to improve the efficiency of handling visitors in common areas of buildings or in car parks. It is very convenient to assign QR codes to visitors and send these codes to them by email. This way, the visitor can access a common area or car park before they register at the reception desk.

QR codes are not suitable for high-security areas. QR codes are reproducible and, by their nature, not highly secure. However, with AEOS, you have several options to optimise QR code security:

- Withdraw the QR code identifier when it is no longer needed. A QR code identifier comes in a digital or printed form. Visitors will not go back to the reception desk and return the QR code identifier when they leave. So you must withdraw the QR code as soon as it is no longer needed. You can use the **Response to event** option in AEOS to withdraw the identifier automatically after use. Just like other identifiers, the visitor's QR code identifier will be removed from AEOS when it is withdrawn, or when the visitor (carrier) itself is deleted. For more information on withdrawing identifiers, deleting carriers and automatic responses to events, see the *AEOS User Manual*.

Response to event

Edit response to event

Response Withdraw identifier from carrier

Date time schedule always

Durable

Priority

Enabled

- Use the **Anti Pass Back (APB)** option in AEOS to prevent visitors from entering the same zone twice in a row or from following an incorrect route. This makes sure that no one can enter an APB zone with a QR code that belongs to a visitor who is already inside. For more information, see the *Anti Pass Back (APB)* chapter in the *AEOS User Manual*.
- Use the **Maximum number of movements** option in AEOS to set the number of times the visitor (carrier) can access the area. This way, one QR code can only be used once, or a limited number of times. For more information, see the *Maximum Number of Movements Permitted* chapter in the *AEOS User Manual*.

Announce

Visitor

Last name*	Smith	...	No. mov. perm.	1
First name	John		Can be user	<input type="checkbox"/>
Middle name				
Title				
Gender	Male			
Telephone no.				
Mobile no.				
E-mail				
Language	English			
Person(nel) no.				
Company				



- Use the **AEOS system properties** to restrict the carrier validity of authorisations. See the examples below. For more information on changing AEOS system properties, see the *AEOS User Manual*.

08.01	Default number of validity days for a visitor.*	1
08.02	Default number of validity days for a contractor.	1
08.03	Default number of validity days for a car.*	1
08.04	Default number of validity days for an employee.	0
08.16	Max. number of days a replacement badge for a visitor is valid (0=unlimited)	1
08.17	Max. number of days a replacement badge for a contractor is valid (0=unlimit...	1
08.18	Max. number of days a replacement badge for a car is valid (0=unlimited)	1
08.19	Max. number of days a replacement badge for a employee is valid (0=unlimit...	0
14.01	Delete visitors without badge(s) after given number of days*	0
14.02	Delete contractors without badge(s) after given number of days*	0
14.03	Delete employees without badge(s) after given number of days*	0
14.04	Delete cars without badge(s) after given number of days*	0
14.06	Delete visitors after given number of days*	0
14.07	Delete contractors after given number of days*	0
14.08	Delete employees after given number of days*	0

AEOS system properties



11. Privacy Notices

11.1 Purpose

The purpose of the AEOS QR code functionality is to identify carriers that request access to physical premises.

11.2 Method

Carrier data is entered in AEOS via the AEOS user interface (AEOS Maintenance & Configuration or AEOS Dashboard). It is converted to a QR code that can be used as an identifier. A QR code identifier comes in a digital or printed form.

11.3 Data

AEOS QR codes contain a carrier name, and also a customer code, identifier number, and validity.

11.4 Storage

Any carrier data provided to AEOS is stored in a secured AEOS database.

11.5 Retention

Any carrier data provided to AEOS will be stored until that information is deleted or changed.



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