

Setup of XS-K-MF-RS and XS-K-MF-RS-X Keypads, and XS-MF-RS and XS-MF-RS-X Readers to the WS4

EN

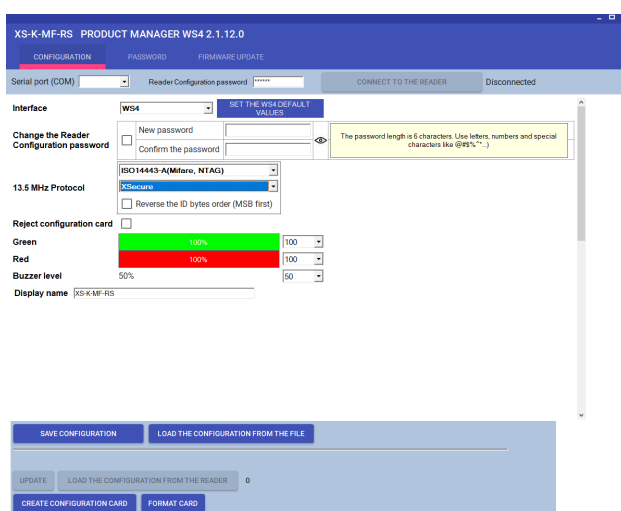
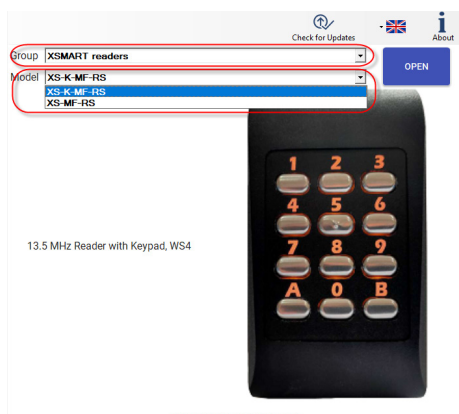
This document describes how to set up the XS-K-MF-RS-X and XS-MF-RS-X readers with Xsecure credential, and XS-K-MF-RS and XS-MF-RS readers without Xsecure credential to the WS4.

Required items:

1. XS-K-MF-RS-X / XS-MF-RS-X and XS-K-MF-RS/XS-MF-RS readers.
2. Product Manager WS4. Product Manager WS4 software will be delivered upon request. Contact us at info@xprgroup.com
3. Micro USB cable (optional). Make sure the cable supports data transfer. If the PC cannot establish a connection with the reader, change the cable.
4. PROX-USB-X desktop reader [PROX-USB - XPR Group](#) (optional).
5. Xsecure and Mifare DESFire cards or fobs.
6. A separate Mifare DESFire card if you want to configure the reader with a card.

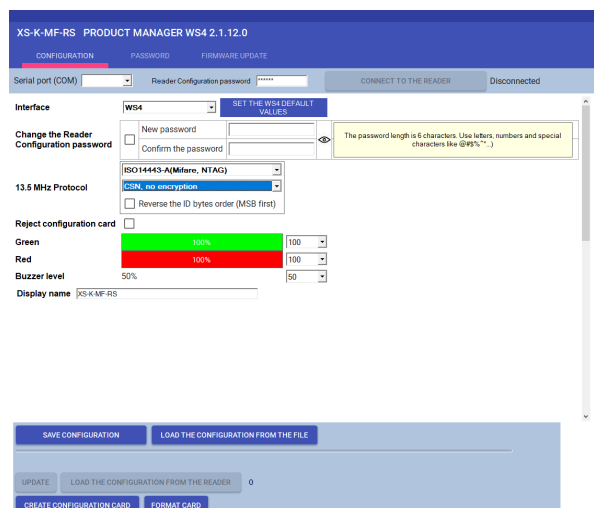
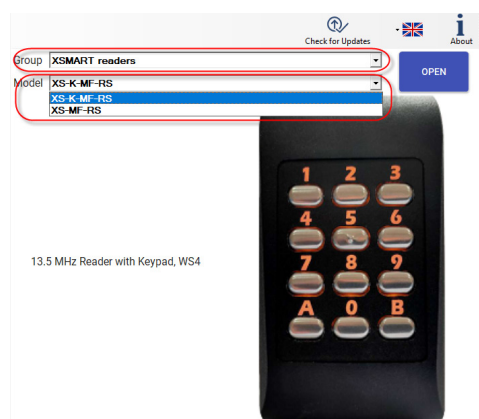


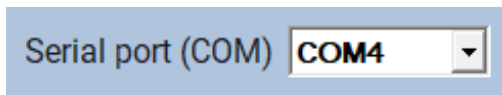
1. CONFIGURING THE READERS



Note: The readers are already configured with the required settings. If the reader was not re-configured, you can skip this step and go to step 4 (Adding readers to the WS4 controller) below.

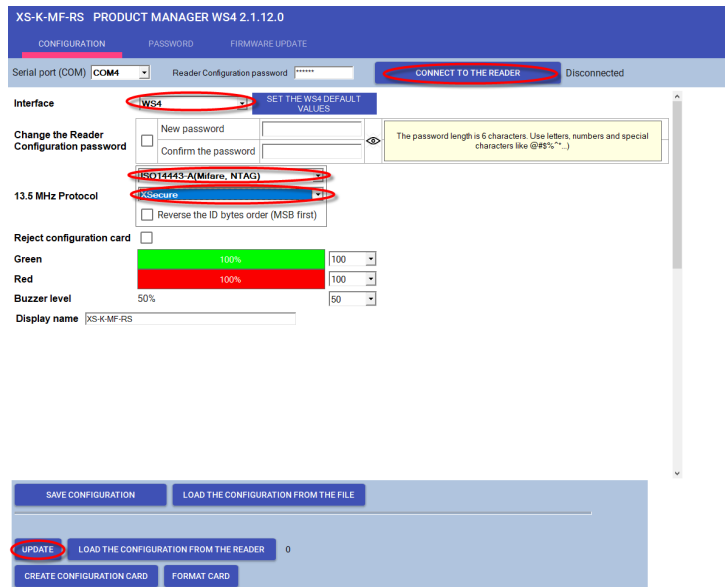
- 1.1 Install the Product Manager WS4 software.
- 1.2 Run the Product Manager WS4.
- 1.3 Select the "XSMART readers" group and the reader model.
- 1.4 Click the "OPEN" tab.





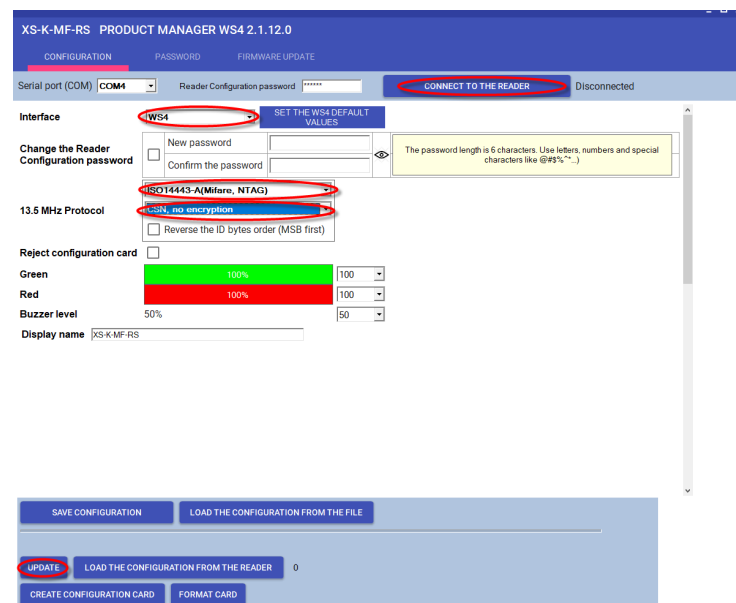
1.5 Connect the reader to the PC using a micro-USB cable. If the reader is recognised by the PC, the “Serial Port (COM)” field will show the communication port where the reader is connected, like “COM4”. If there is no value in the “Serial Port (COM)” field, change the USB cable.

2. CONFIGURING A READER TO READ XSECURE CREDENTIALS



- 2.1 Click the “Connect to the reader” tab.
- 2.2 Set the interface to “WS4”.
- 2.3 Set the 13.5 MHz protocol to “ISO14443-A (Mifare, NTAG)”.
- 2.4 Set the ID type to “Xsecure”.
- 2.5 Click the “Update” tab to configure the reader.
- 2.6 Mount the reader and connect it to the Controller.

3. CONFIGURING A READER TO READ MIFARE CSN



- 3.1 Click the “Connect to the reader” tab.
- 3.2 Set the Interface to “WS4”.
- 3.3 Set the 13.5 MHz protocol to “ISO14443-A (Mifare, NTAG)”.
- 3.4 Set the ID type to “CSN, no encryption”.
- 3.5 Click the “Update” tab to configure the reader.
- 3.6 Mount the reader and connect it to the Controller.

4. ADDING READERS TO THE WS4 CONTROLLER

4.1 Go to the section “Doors” on the main screen of WS4 and select the available address where the reader will be configured.

GENERAL [to 3] ?
Name of the access: XS-MF-RS-X Reader/Exit Group: 0
Type of access: Door Access with 1 reader
Location: Neutral Lock time: 3 sec.
☐ Toggle mode ☐ Anti-passback (APB) ☐ Interlock
☐ Manage an elevator ☐ Unlock if emergency
FREE & FORBIDDEN PERIODS ?
Active period: 24h a day, 7d a week
☐ Record free output events
READER A ?
Cabling: on LB2, reader at address 0 (jumper opened)
Card: Mifare/Desfire
Keypad: Never
Card + PIN mandatory periods: Never (user can choose)

List of doors

This list gives you a quick overview of the doors of your installation.
If the **Public** option is checked, any operator will be allowed to open or unlock the access from the home page.

ID	IO	Name	Group	APB	Lock	Emg	Public
1.0		b100	0				
1.1		MTPX with CNV/1000	0				
2.0		Not used	0				
2.1		Not used	0				

ID	IO	Name	Group	APB	Lock	Emg	Public
1.0		MTPAD-MHWO EXIT SLAVE	3				
1.1		MTPX-MHWO ENTRY SLAVE	4				

Add a slave ?

WS4 V3.01 © XPR Group

- 4.2 A new window will pop up.
- 4.3 Type the name of the access (entry, exit, main building, etc.).
- 4.4 For the card type, select “Mifare/DESFire”.

4.5 If you use a keypad, check the “Keypad” box.

READER A ?
Cabling: on LB2, reader at address 0 (jumper opened)
Card: Mifare/Desfire
Keypad: Never
Fingerprint: Never
Card + PIN mandatory periods: Never (user can choose)

4.6 Click the “Save” icon.



5. ASSIGNING THE XSECURE CREDENTIAL TO A USER MANUALLY

New user

GENERAL ?
Full name:
First name:
Department:
Position held:
E-mail:
Phone:
☐ Disabled
☐ This user can acknowledge alarms
Validity:
☒ Always valid
From: 00:00 To: 00:00
CATEGORIES ?
Category 1: NO ACCESS
Category 2: NO ACCESS
Category 3: NO ACCESS
IDENTIFIERS ?
Card 1:
Code in Wiegand 26 bit:
Card 2:
Code in Wiegand 26 bit:
PIN code:
Fingerprints
Fingers enrolled: 0
How can the user delete his own fingerprints?

In the “Card 1” or “Card 2” field, enter the first number from the Xsecure card.



6. ASSIGNING THE XSECURE CREDENTIAL TO A USER WITH THE DESKTOP READER PROX-USB-X

- To read an Xsecure card, click the “Card 1” field, place the Xsecure card on the PROX-USB-X desktop reader and the Xsecure ID will be written in the “Card 1” field.
- If the Xsecure number is not written, do the Desktop reader setup as described in the next section.

IDENTIFIERS

Card 1 :

45667899

7. DESKTOP READER SETUP (XSECURE)

PROX-USB-X Configurator 1.0.0.0

Reader

COM3, Firmware: 2.21, Xsecure

Reading configuration

Card type

ISO 14443-A (Mifare)

Desfire encryption

XSecure

Strip trailing bits count

0

ID bits count

From card

Reverse ID bytes order

☐

Update reader

Load configuration from reader

Keypad configuration

Use Numeric keypad for numbers

☐

Type card number as

Decimal number

Type ID with

As readed from card

Type key after card number

None

Update reader

Load keypad configuration from reader

Custom Mifare

Application ID (000001 - FFFFFFF)

010000

Application Key

00000000000000000000000000000000

Key number

0

File ID

0

Offset (0 - 255 Decimal)

0

Length

4

Update reader

To test the reader, click on the text box at the right and present the card to the reader

- 7.1 Download and run “PROX-USB-X Configurator” from XPR Group. Downloads. The software runs on Windows OS.
- 7.2 Connect the desktop reader to the PC.
- 7.3 Set the values as given in the image below.
- 7.4 Click the “Update reader” tab under “Reading configuration”.
- 7.5 Click the “Update reader” tab under “Keypad configuration”.

8. ASSIGNING THE MIFARE CREDENTIAL TO A USER MANUALLY

New user

GENERAL

Full name :

First name :

Department :

Position held :

E-mail :

Phone :

☐ Disabled

☐ This user can acknowledge alarms

Validity

☒ Always valid

From :

To :

CATEGORIES

Category 1 :

NO ACCESS

Category 2 :

NO ACCESS

Category 3 :

NO ACCESS

IDENTIFIERS

Card 1 :

Code in Wiegand 26 bit:

Card 2 :

Code in Wiegand 26 bit:

PIN code :

Fingerprints

Fingers enrolled: 0

Details

WS4 V3.00 BETA © XPR Group

In the “Card 1” or “Card 2” field, enter the number from the Mifare DESFire card if it is printed.

9. ASSIGNING THE MIFARE CREDENTIAL TO A USER WITH DESKTOP READER PROX-USB-X

- To read a Mifare DESFire card, click the “Card 1” field, place the card on the PROX-USB-X desktop reader and the Mifare ID will be written in the “Card 1” field.
- If the Mifare number is not written, do the Desktop reader setup as described in the next section.

IDENTIFIERS

Card 1 :

36066044360153092

10. DESKTOP READER SETUP (MIFARE CSN)

The screenshot shows the PROX-USB-X Configurator 1.0.0.0 software interface. The window title is "PROX-USB-X Configurator 1.0.0.0". The interface is divided into three main sections: "Reading configuration", "Keypad configuration", and "Custom Mifare".

Reading configuration:

- Reader: COM3, Firmware: 2.21, Xsecure
- Card type: ISO 14443-A (Mifare)
- Desfire encryption: No encryption, use built in ID (CSN)
- Strip trailing bits count: 0
- ID bits count: From card
- Reverse ID bytes order: ☐
- Buttons: Update reader, Load configuration from reader

Keypad configuration:

- Use Numeric keypad for numbers: ☐
- Type card number as: Decimal number
- Type ID with: As readed from card
- Type key after card number: None
- Buttons: Update reader, Load keypad configuration from reader

Custom Mifare:

- Application ID (000001 - FFFFFFFF): 010000
- Application Key: 00000000000000000000000000000000
- Key number: 0
- File ID: 0
- Offset (0 - 255 Decimal): 0
- Length: 4
- Buttons: Update reader

At the bottom, there is a text box that says: "To test the reader, click on the text box at the right and present the card to the reader".

- 10.1 Download and run "PROX-USB-X Configurator" from XPR Group. Downloads. The software runs on Windows OS.
- 10.2 Connect the desktop reader to the PC.
- 10.3 Set the values as given in the image below.
- 10.4 Click the "Update reader" tab under "Reading configuration".
- 10.5 Click the "Update reader" tab under "Keypad configuration".