

# 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

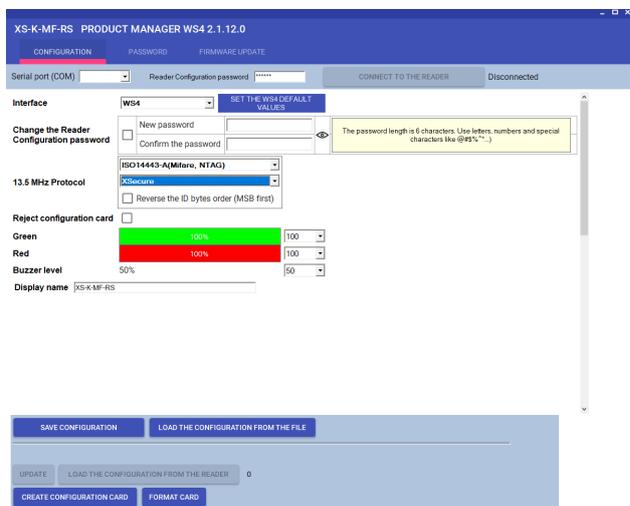
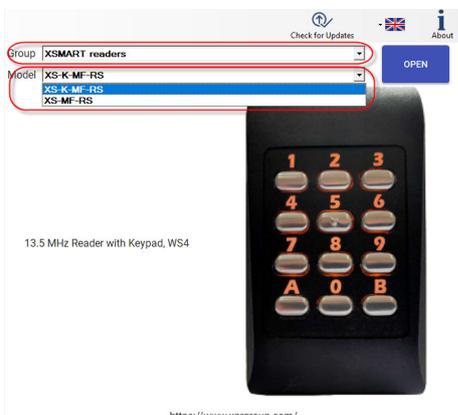
This document describes how to set up the XS-K-MF-RS-X and XS-MF-RS-X readers with Xsecure credential, and XS-K-MF-RS and XS-MF-RS readers without Xsecure credential to the WS4.

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](mailto: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.

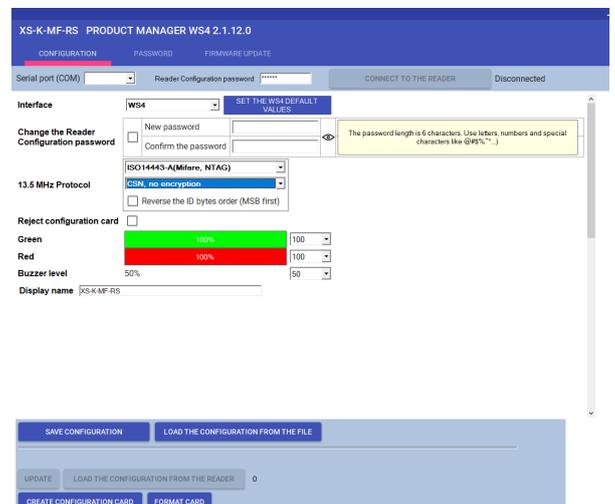


## 1. CONFIGURING THE READERS



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.

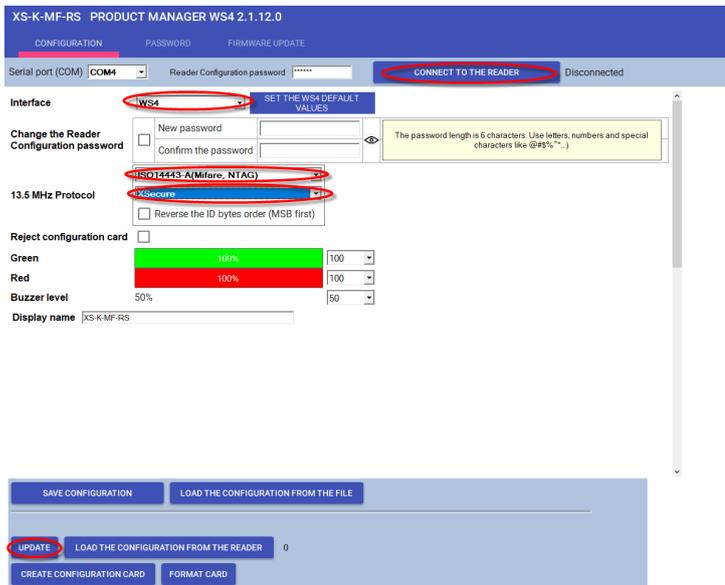
- 1.1 Install the Product Manager WS4 software.
- 1.2 Run the Product Manager WS4.
- 1.3 Select the "XSMART readers" group and the reader model.
- 1.4 Click the "OPEN" tab.



Serial port (COM) **COM4**

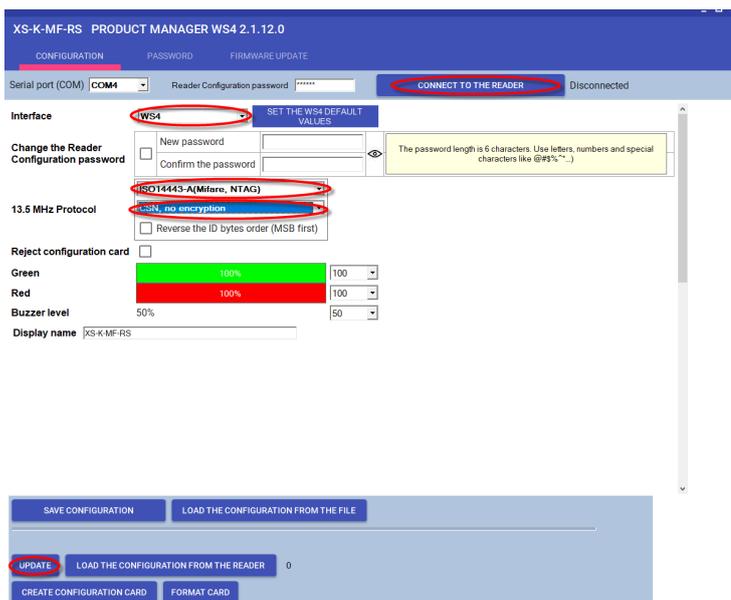
1.5 Connect the reader to the PC using a micro-USB cable. If the reader is recognised by the PC, the “Serial Port (COM)” field will show the communication port where the reader is connected, like “COM4”. If there is no value in the “Serial Port (COM)” field, change the USB cable.

## 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** [info]

Name of the access: XS-MF-RS-X Reader Entry/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 OUTPUT PUSH BUTTON** [info]

Active period: 24h a day, 7d a week

Record free output events

**READER A** [info]

Cabling: on LB2, reader at address 0 (jumper opened)

Card: Mifare/Desfire

Keypad:  Keypad  Fingerprint

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				<input type="checkbox"/>
1.1		MTPX with CNV1000	0				<input type="checkbox"/>
2.0		Not used	0				<input type="checkbox"/>
2.1		Not used	0				<input type="checkbox"/>

**#2 - Slave 265536** [info]

ID	IO	Name	Group	APB	Lock	Emg	Public
1.0		MTPAD-MHWO EXIT SLAVE	3				<input type="checkbox"/>
1.1		MTPX-MHWO ENTRY SLAVE	4				<input type="checkbox"/>

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** [info]

Cabling: on LB2, reader at address 0 (jumper opened)

Card: Mifare/Desfire

Keypad  Fingerprint

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** [info]

Full name: [text field]

First name: [text field]

Department: [text field]

Position held: [text field]

E-mail: [text field]

Phone: [text field]

Disabled

This user can acknowledge alarms

Validity

Always valid

From: [calendar icon] 00:00

To: [calendar icon] 00:00

**CATEGORIES** [info]

Category 1: NO ACCESS

Category 2: NO ACCESS

Category 3: NO ACCESS

**IDENTIFIERS** [info]

Card 1: [text field]

Code in Wiegand 26 bit: [text field]

Card 2: [text field]

Code in Wiegand 26 bit: [text field]

PIN code: [text field]

Fingerprints

Fingers enrolled: 0

[How can the user delete his own fingerprints?](#)

WS4 V3.00 BETA © XPR Group

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

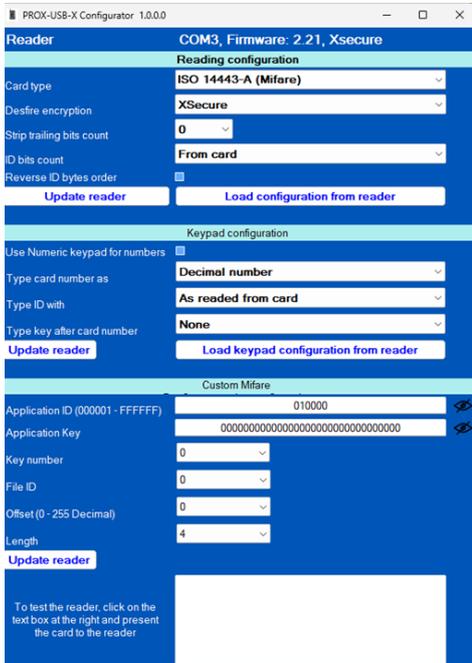


## 6. ASSIGNING THE XSECURE CREDENTIAL TO A USER WITH THE DESKTOP READER PROX-USB-X

- 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.

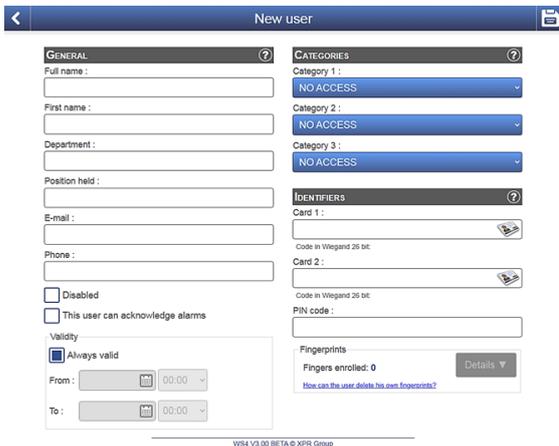
IDENTIFIERS 	
Card 1 :	<input type="text" value="45667899"/> 

## 7. DESKTOP READER SETUP (XSECURE)



- 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



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 :	<input type="text" value="36066044360153092"/> 

## 10. DESKTOP READER SETUP (MIFARE CSN)

PROX-USB-X Configurator 1.0.0.0

Reader: COM3, Firmware: 2.21, Xsecure

**Reading configuration**

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:

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 - FFFFFFFF): 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

- 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".