

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

EN

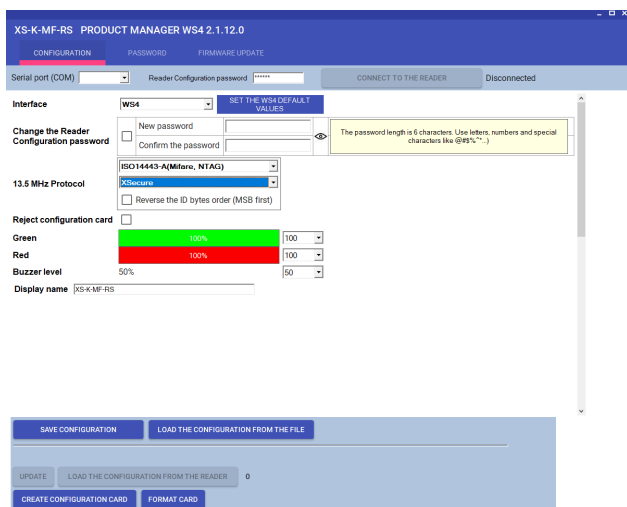
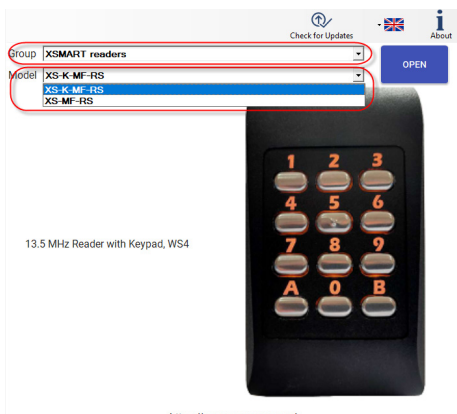
This document describes how to set up the WS4, XS-K-MF-RS-X and XS-MF-RS-X readers with Xsecure credential, and XS-K-MF-RS and XS-MF-RS readers without Xsecure credential.

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.

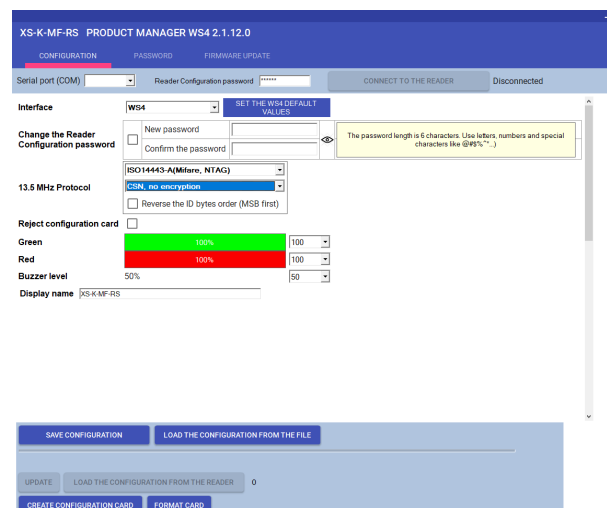
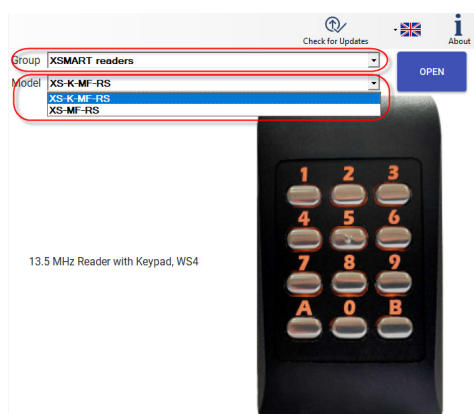


1. CONFIGURING THE READERS



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.

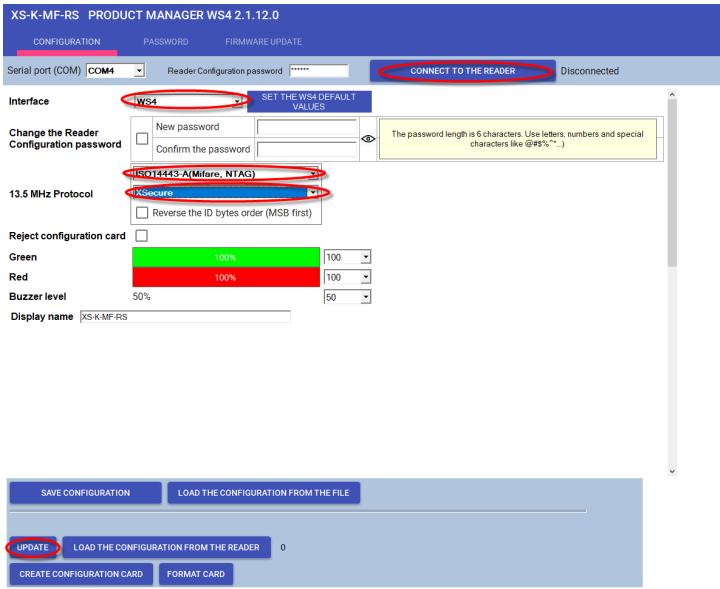
- 1.1 Install the Product Manager WS4 software.
- 1.2 Run the Product Manager WS4.
- 1.3 Select the "XSMART readers" Group and the reader model.
- 1.4 Click the "OPEN" tab.



Serial port (COM) **COM4**

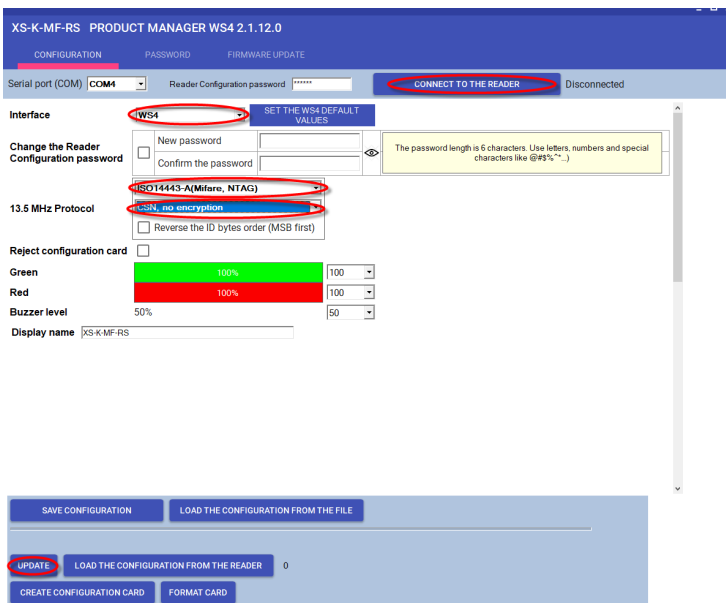
1.5 Connect the reader to the PC using a micro-USB cable. If the reader is recognised by the PC, the “Serial Port (COM)” field will show the communication port where the reader is connected, like “COM4”. If there is no value in the “Serial Port (COM)” field, change the USB cable.

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.
- 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".

GENERAL

Name of the access: XS-MF-RS-X Reader Entry/Exit

Type of access: Door

Location: Neutral

Lock time: 3 sec.

DOOR CONTACT

Type: Not connected

FREE & FORBIDDEN PERIODS

Free periods: ---

Forbidden periods: ---

FREE OUTPUT PUSH BUTTON

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

READER A

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

Card: Mifare/Desfire

Keypad: Keypad Fingerprint

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	i/O	Name	Group	APB	Lock	Emg.	Public
#0 - Master 200050							
1.0		9100	0				<input type="checkbox"/>
1.1		MTPX-with CNV/1000	0				<input type="checkbox"/>
2.0		Not used	0				<input type="checkbox"/>
2.1		Not used	0				<input type="checkbox"/>
#2 - Slave 265536							
1.0		MTPAD-MHWO EXIT SLAVE	3				<input type="checkbox"/>
1.1		MTPX-MHWO ENTRY SLAVE	4				<input type="checkbox"/>

- 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: Keypad Fingerprint

- 4.6 Click the "Save" icon.



5. ASSIGNING THE XSECURE CREDENTIAL TO A USER MANUALLY

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: []

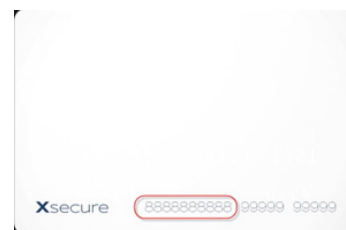
Code in Wiegand 26 bit: []

PIN code: []

Fingerprints

Fingers enrolled: 0

- 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 - FFFFFF): 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 : 00:00
To : 00:00

CATEGORIES

Category 1 : NO ACCESS
Category 2 : NO ACCESS
Category 3 : NO ACCESS

IDENTIFIERS

Card 1 : 45667899
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?

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. DESTOP 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".