



Product Manager WS4 Configuration Manual for Xpro and Xsmart Readers

Required items:

1. Micro USB cable or USB type C, depending on the reader model. Make sure the cable supports data transfer. Change the cable if the PC cannot connect with the reader. The cable is required if the programming is done by direct connection with the PC.

2. <u>PROX-USB-X</u> desktop reader (optional) and a new Mifare DESFire card. These items are required in case the programming is done by the Mifare DESFire card. The programming card will work only if the reader is set to read ISO 14443 (Mifare, NTAG) cards.

Note: Models that don't support 13.5 MHz credentials can be programmed only by USB.

Important!!! Keep your password in a safe place. Passwords can contain letters and numbers. Upper and lowercase letters will be considered as different keys.

1. CONFIGURE THE READER USING A USB CABLE

Note: This step is required if you want to configure the reader by USB cable.

• Run the application.

• Select the "Group" and "Model" of your reader and click the "OPEN" tab.



• Connect the reader to the PC's USB port.

CONNECT TO THE READER

• On the top left corner, the "Port" value will be set to reader COM port. Change the USB cable if this field remains empty after connecting the reader.

Serial port (COM) COM4	Reader Configuration password	CONNECT TO THE READER	Disconnected
Click the "Connec	t to the reader" tab.		

• After connecting the device, you can transfer the settings from and to the device.

Disconnected





• Configure the parameters you need and click the "Update" tab to transfer the settings onto the reader with a USB cable.

• Disconnect the reader from the USB port and make a test with the Controller.

narport (com) [Reader Configuration password		CONNECT TO THE READER	Disconnected
nterface	WS4 SET THE	WS4 DEFAULT /ALUES		
Change the Reader Configuration password	New password Confirm the password	۲	The password length is 6 characters. Use le characters like @#\$1	etters, numbers and special
	ISO14443-A(Mifare, NTAG)	•		
13.5 MHz Protocol	CSN, no encryption	•		
	Reverse the ID bytes order (MSB fi	irst)		
Reject configuration card				
Backlight				
Blue	100%	100 •		
Green	100%	100 •		
Red	100%	100 •		
Buzzer level	50%	50 *		
Display Halle Arriverius				
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		NOT A THE CHIEF		

2. CONFIGURE THE READER WITH A MIFARE DESFIRE CARD/FOB USING THE PROX-USB-X DESKTOP ENROLLMENT UNIT

This is an option to configure and upload the required settings onto the reader if it is already installed and powered on-site.

Only for reader models with 13.5 MHz functions.

• Connect the desktop reader to the PC.

- Set up the configuration requested in the software.
- Place the card/fob on the PROX-USB-X enrollment device and

click the "Create Configuration Card" tab.

CREATE CONFIGURATION CARD

• After selecting the "Create Configuration Card" tab, the reader configuration password can also be set. By default, the password for reader configuration is "000000".

Password	000000	\checkmark
Default read Password len	er configuration password gth must be 6 alphanumer	is "000000". Is characters.
Do not forget th	e password is case sensitive configure the reader!	ill not be able to
Do not forget th	assword is case sensitive e password as later you w configure the reader! eader password	ill not be able to
Do not forget th	assword is case sensitive e password as later you w configure the reader! eader password	ill not be able to

- Set the password for the reader configuration.
- Click the "Continue" tab. A new window will pop up with the message "Card Created".



• If you want to disable the reader configuration by card, check "Reject configuration card" option in the Setting.

Interface	WS4 SET THE WS4 DEFAULT VALUES	
Change the Reader Configuration password	New password	The password length is 6 characters. Use letters, numbers and special
13.5 MHz Protocol	ISO14443-A(Mifare, NTAG) CSN, no encryption Reverse the ID bytes order (MSB first)	
Backlight		
Blue	100% 100 •	
Green	100% 100	
Red	100% 100 -	





2

3. SAVE CONFIGURATION TO FILE

Note: This step is not mandatory. Use it if you want to save the configuration for later use.

• Click the "Save configuration" tab to open the file save window.

SAVE CONFIGURATION

• Type the file's name in the "File name" window.

Save configuration			×
← → ✓ ↑ « XPR → Product Manager WS4 → Configurations	~ Ö	Search Configurations	P
Organize - New folder		100 -	0
30 Objects Name Decarrents Munic Picture Vees Landfacto 0 x C	Date modified match your search.	Type	Size
File name Save as type: Export file		Save Car	v v

• Click the "Save" tab. Enter the password for file protection.

Important! If the password is lost, there is no way to retrieve the configuration from the file.

Save configuration	×
Enter export file protection password. Pasword can be up to 32 characters.	OK Cancel
Xpr\$123	

• Click the "OK" tab to save the settings file. If the file is saved, a confirmation message will appear.

4. LOAD THE CONFIGURATION FROM THE FILE

Note: Use this step if you have already saved the configuration that you need.

• Click the "Load the configuration from the file" tab.

LOAD THE CONFIGURATION FROM THE FILE

· Select the file with the required settings.



- Click the "Open" tab.
- Enter the file protection password.



- Click the "OK" tab.
- Click the "Import these settings" tab.

	_
General settings ***	^
IOR USUP	
S S MP2, reading (SO Terres W (Millare, N T AG)	
co Knz, reading: Unsabled	
eomensity, roo to	
eren mensiy, too w	
adding of the second	
M Rose framerey: 132.23 (FM4100 dataut) KHz	
ID 125 KHz Base frequency: 132 23 (EM4100 default) KHz	
1.5 KHz Bytes order LSB first	
25 KHz Bytes order LSB first	
elect config card: False	
arcode Bytes order: LSB first	
lue intensity, 100 %	
LE Power. [Disabled. 0]	
arcode symbology: [GR Code, 28]	
arcode mode: (Encrypted, 1)	
ifare security mode: CSN, no encryption KHz	
ifare Tx power: 4.75 V	
Ifare Residual carrier. 75	
itare Gain: 50	
Itare Rx Cutoff freg: 160	
stare Treshold 5	~

• Click the "OK" tab.

5. TRANSFER SETTINGS TO THE READER

• Click the "Update" tab to transfer the settings to the reader.



6. LOAD THE CONFIGURATION FROM THE READER

Note: Use this step if you want to check the reader configuration or to copy it to another reader.

• Click the "Load the configuration from the reader" tab to load the current configuration from the reader.

LOAD THE CONFIGURATION FROM THE READER

Important!!! Custom Encryption settings will not be loaded from the reader.

• Click the "Import these settings" tab if you want to load this configuration into the software (Custom encryption parameters have to be set manually).



7. CONFIGURE THE READER TO USE XSECURE ENCRYPTED CARD

• Set the 13.5 MHz protocol to "ISO14443-A (Mifare, NTAG)".

• Set the ID type to "Xsecure".

• After other settings are configured, use some of the described options to configure the reader.

Serial port (COM)	Reader Configuration password		CONNECT TO THE READER	Disconnected
Interface	WS4 SET THE WS4 DE VALUES	FAULT		
Change the Reader Configuration password	Confirm the password	۲	The password length is 6 characters. Use lett characters like 중세용%^	ars, numbers and special
13.5 MHz Protocol	ISO14443-A(Mifare, NTAG) XSecure Reverse the ID bytes order (MSB first)			
Reject configuration card				
Backlight	(
Blue	100%	• 00		
Green	100%	• 00		
Red	100%	• 00		
Buzzer level	50% 6	0 -		



8. CONFIGURE THE READER TO USE A CUSTOM ENCRYPTED CARD

• Set the 13.5 MHz protocol to "ISO14443-A (Mifare, NTAG)".

• Set the ID type to "Custom encryption (Desfire only)".

• Set the encryption settings items in the table. If the cards are encoded with a PROX-USB-X desktop reader, keep the "Key number" value to zero.

		Custom encryption settings		
		Application Key	********	
		Application ID (000001 - FFFFFF)	XX221X	
	ISO14443-A (Mifare, NTAG)	- File ID	0 -	
13.5 MHz	Custom encryption (Desfire only)	Key number	0 -	
	Reverse ID bytes order (MSB first)	Offset (0 - 252)	0	
		ID length (bytes)	4 -	
		Data encryption	Encyphered (AES)	
		Key type	AES	

• After other settings are configured, use some of the described options to configure the reader.

9. FIRMWARE UPDATE

• Click the "Firmware Update" tab.

- Select the firmare version from the "Firmware" drop-down box.
- Follow the instructions given for Firmware update and then click the "Update" tab.

Serial port (COM) COM7 Reader Configuration password	DISCONNECT	Connected
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