

Configuration of the MTPADP-XPR-2.0 and MTPX-XPR-2.0 reader series in WS4 systems

APPLICATION NOTE

Web Access

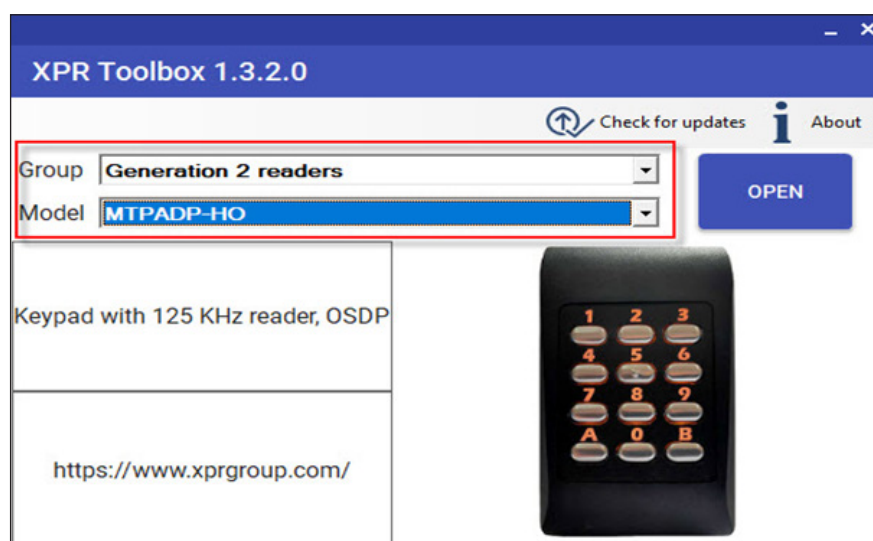
Compatible models with RS485 interface:
MTPADPBK-HO, MTPADPS-HO,
MTPADPBK-MHWO, MTPADPS-MHWO,
MTPXBK-HO, MTPXS-HO,
MTPXBK-MHWO, MTPXS-MHWO

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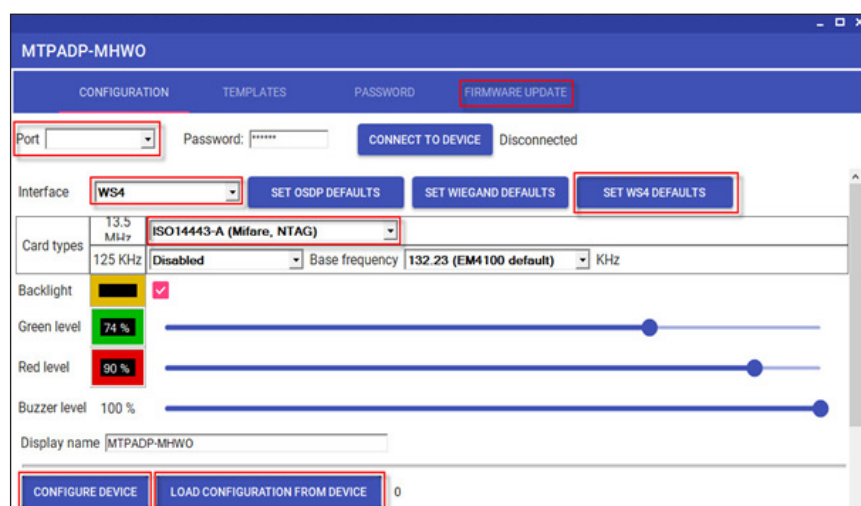
Configuring the reader with XPR Toolbox

Before installing the readers in the system, need to be configured with XPR Toolbox. XPR Toolbox can be downloaded from <https://software.xprgroup.com/>. Follow the procedure bellow and then mount the readers.

- Run the XPR Toolbox



- Select “**Generation 2 readers**”.
- Select the model you have.
- Click on “**Open**” tab.



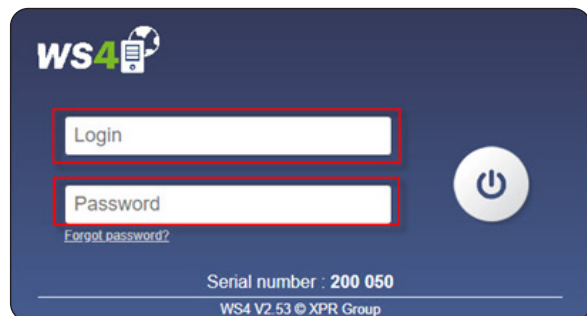
- Connect the reader to PC using micro USB port on the reader.
- If reader is connected, Port should be set to COM port assigned to the reader by PC.
- Select “**WS4**” interface.
- Select the Card type you need.
- Click on “**Configure device**” tab.
- Disconnect the reader from PC.

Configuring the reader to use Mifare Desfire encryption

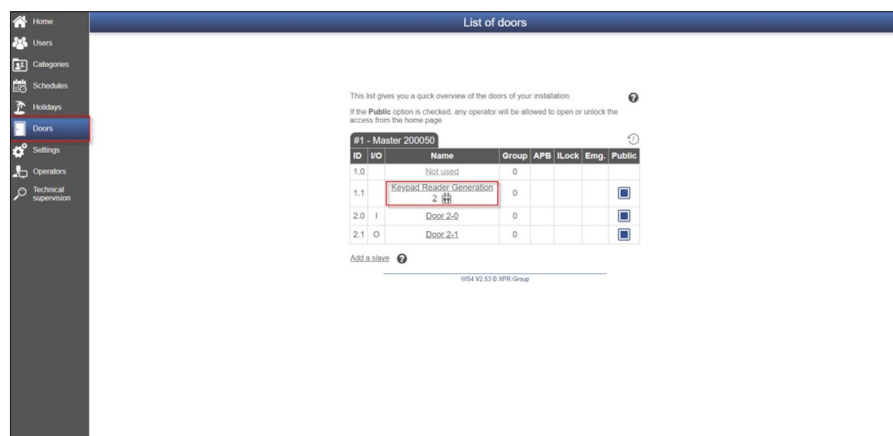
Card encryption is possible on models with Mifare reader: MTPADPBK-MHWO, MTPADPS-MHWO, MTPX BK-MHWO, MTPXS-MHWO.

Reader card type must be configured to read Mifare card and connected to WS4 controller.

- Log into WS4 using **Login** and **Password**



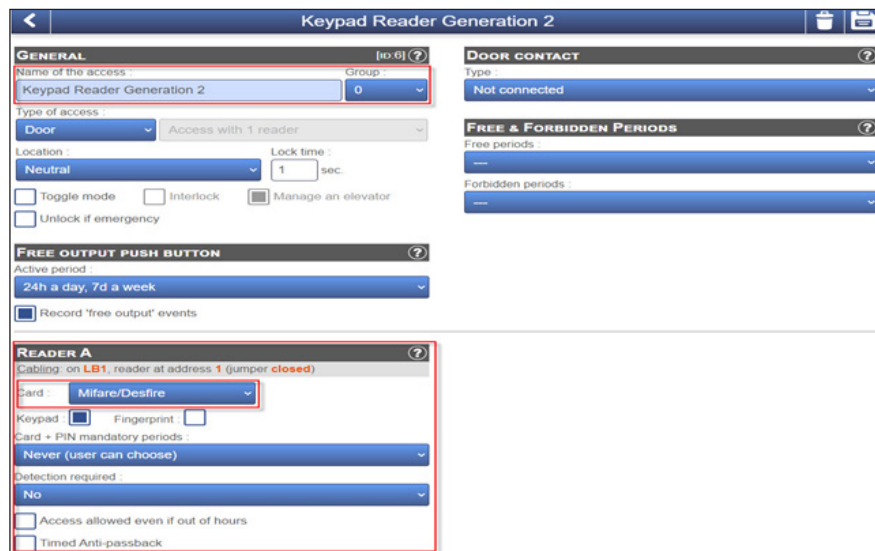
The login screen for the WS4 system. It features a dark blue background with the 'WS4' logo in the top left. There are two input fields: 'Login' and 'Password', both highlighted with red boxes. A 'Forgot password?' link is located below the password field. To the right of the input fields is a circular power button icon. At the bottom, the text 'Serial number : 200 050' and 'WS4 V2.53 © XPR Group' is displayed.



The 'List of doors' screen in the WS4 interface. It shows a table of door configurations. The 'Doors' menu item in the left sidebar is highlighted with a red box. The table has columns: ID, IO, Name, Group, APS, Lock, Emg, and Public. The first row is highlighted with a red box.

ID	IO	Name	Group	APS	Lock	Emg	Public
1.0		Not used	0				
1.1		Keypad Reader Generation 2	0				
2.0	I	Door 2-0	0				
2.1	O	Door 2-1	0				

- Select which Door need to be set to use Mifare/Desfire card
- Set Card to Mifare/Desfire



The configuration screen for 'Keypad Reader Generation 2'. It contains several sections: 'GENERAL' with fields for 'Name of the access' (highlighted with a red box) and 'Group' (set to 0); 'Type of access' (set to Door); 'Location' (set to Neutral); 'Lock time' (set to 1 sec); 'Toggle mode', 'Interlock', and 'Manage an elevator' checkboxes; 'FREE OUTPUT PUSH BUTTON' with 'Active period' (set to 24h a day, 7d a week) and 'Record free output events' checkbox; 'READER A' with 'Cabling' (set to on LB1, reader at address 1), 'Card' (set to Mifare/Desfire, highlighted with a red box), 'Keypad' (checked), 'Fingerprint' (unchecked), 'Card + PIN mandatory periods' (set to Never), 'Detection required' (set to No), 'Access allowed even if out of hours' (unchecked), and 'Timed Anti-passback' (unchecked).

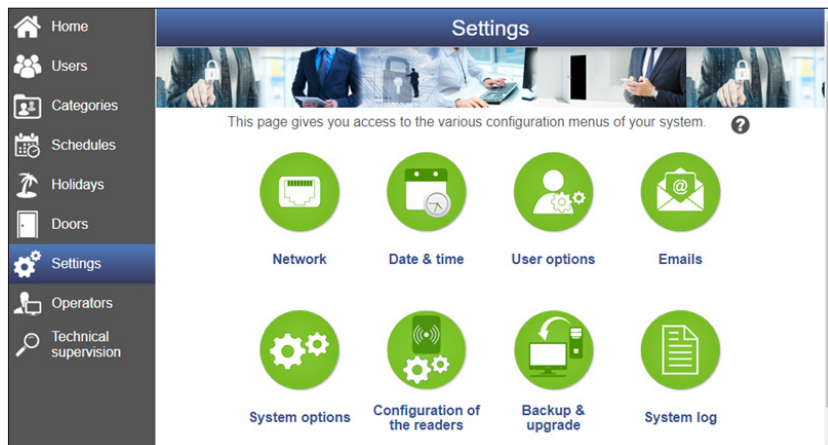
- Configure other options
- Save the configuration



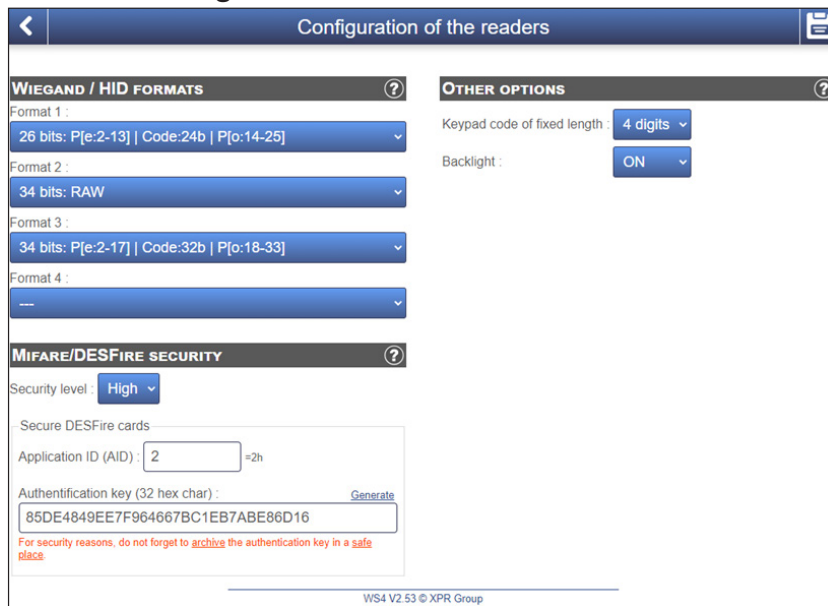
- Go back to home page



- Click on **Settings** tab



- Click on **“Configuration of the readers”**

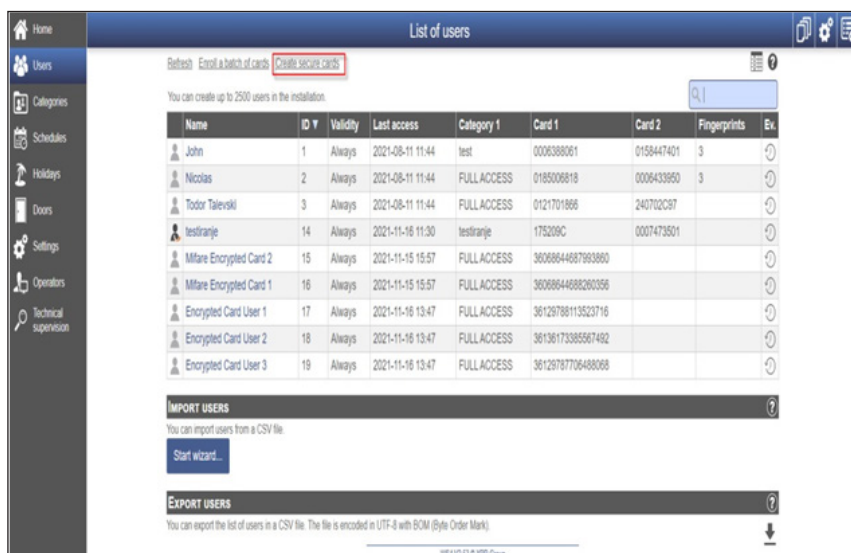


- Select High security level:
Low: All types of cards are accepted, there is no restriction.
High: The WS4 ONLY accepts secure DESFire cards that have been created by the system.
- Enter Application ID with values between 1 and 16777215
- Set Authentication key manually or click on “Generate” tab to create random key.
- Save the configuration

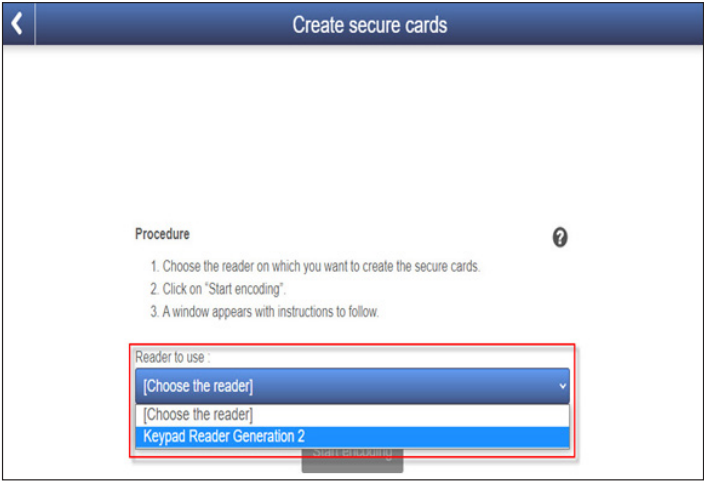


Creating secure card using encryption

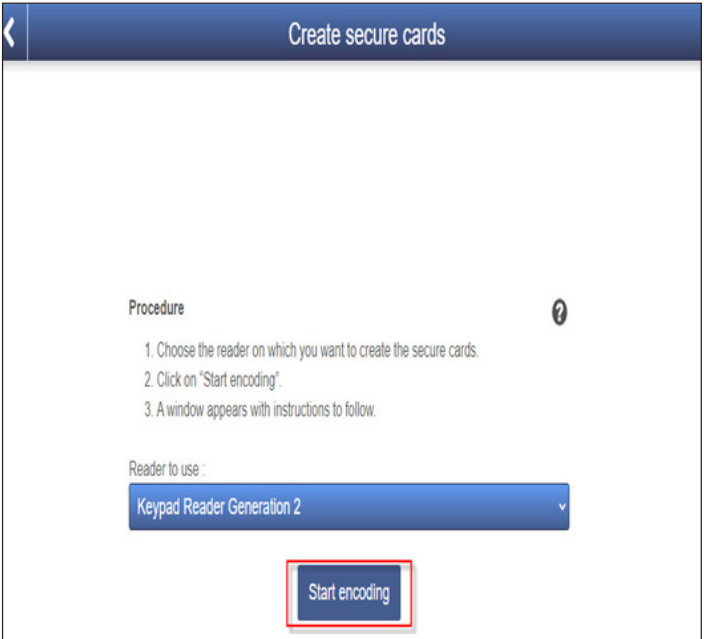
- Click on **“Users”** tab.



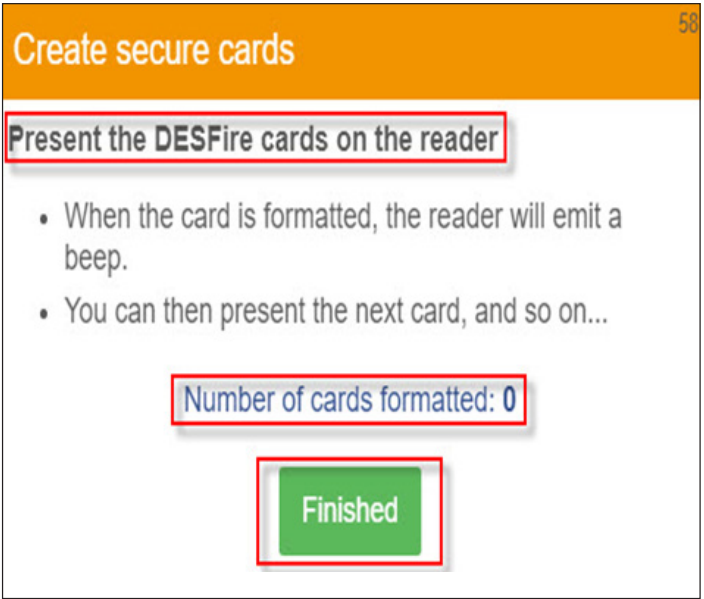
- Click on “**Create secure cards**” tab



- Choose the reader on which you want to create the secure card
- Click on “**Start encoding**” tab.



- Present Desfire card at the reader. For each enrolled card number of cards formatted will increase by one.



- Click the “**Finished**” tab to end the encoding.
- Encoded cards are now ready to be assigned to users by the standard enrollment procedure