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PARAFAIT

Turnstile Mount Reader (XCESS)– Installation & Configuration

Version 1.2, May 2022

Legal Notice

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Notice

Table of Contents

About this document

Purpose

This document explains the installation and configuration of the Turnstile Mount Reader (XCESS).

Product name: PARAFAIT READER 4
Model number: PARARDR005, PARARDR005-1, PARARDR005-2
FCC ID: G7H-SPRW002

Revision History

- 2018 Nov. - First issue of the document.
- 20210908 - Model numbers PARARDR005-1 and PARARDR005-2 added
- 20210908 – FCC ID, Operational Description, Product Specs added feedback
- 20220525 – FCC Statement added

To send us your feedback on the document, email your comments to info@semnox.com

Document Conventions

The following document conventions are used throughout this document:

Icon	Title	Description
Note	**Note**	Indicates neutral or positive information that emphasizes or supplements important points of the main text. In addition, a note supplies information that may apply only in special cases.
Bold	**Bold** text	Bold text indicates menu names, buttons, and field names.
Link	Hyperlinks	All links to different topics, sites and external documents.

Related Documentation

For information related to Management Studio configuration, refer the **PARAFAIT MANAGEMENT STUDIO USER MANUAL.**

Technical Support

We are here to help!

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Introduction

Semnox has a powerful and robust access control system suitable for controlling entries into theme parks, theater entrances, gaming zones etc. Flap barriers, Tripod Turnstiles, Bridge Turnstiles etc. are used at the entrances. The turnstiles are integrated with RFID-based entry devices, or barcode scanners for cashless transactions. They provide access to only valid ticket holders.

Semnox has launched a new version of reader, "XCESS" exclusive for turnstile mounting.

Operational Description

The LAN Reader XCESS is a powerful and robust access control system suitable for controlling entries into theme parks, theater entrances, gaming zones etc. When a customer card is tapped at the XCESS reader, the reader communicates with the server over a Wi-Fi network or LAN connection. On acknowledgment from server, the reader will create necessary pulses to activate the turnstile.

The readers support Mifare and Hitag cards, BLE tags and wristbands.

Product Specs

Key Features

- 3.5-inch TFT LCD display
- LED Bezel with software-controlled patterns.
- Customizable display with multi-lingual support
- Wi-Fi enabled, per latest Wi-Fi standards
- FCC, CE certified
- Bluetooth Low Energy.
- 5 GHz and 2.4 GHz Wi-Fi in some models.
- PoE(802.3af) and LAN connection.

XCESS Reader

The following images show the XCESS Reader.

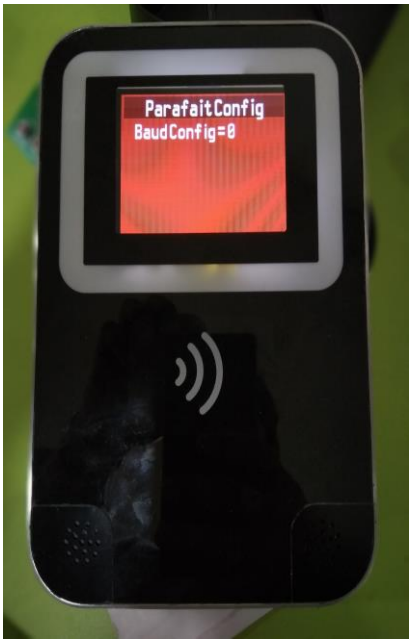
In theme parks, different variants of the XCESS Reader maybe used based on the requirement. Depending on the usage there are 3 variants:

- RFID controlled gates
- Barcode controlled gates
- Biometric plus RFID controlled gates

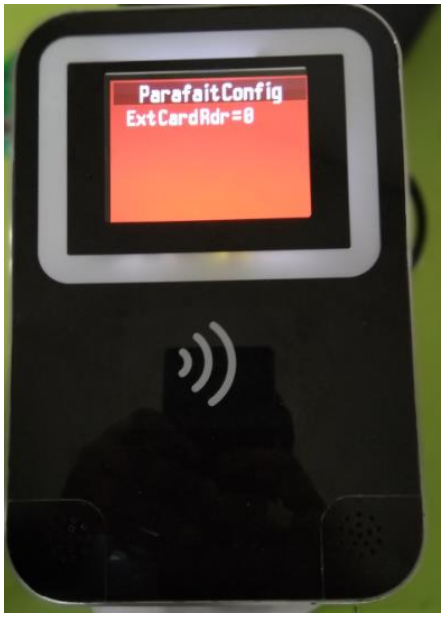
The usage type is decided in the reader configuration. The config values are explained in the following section.

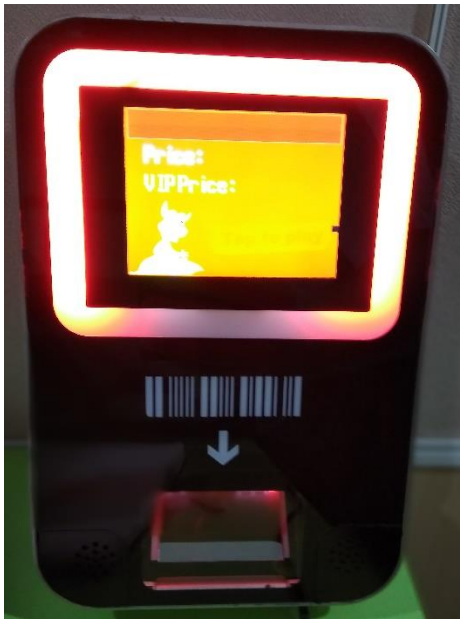
LAN Interface Board – Connections

- If External LAN =1, the reader works in LAN Mode. LAN mode requires a hardwired cable. For LAN mode, Baudconfig value =0 and BaudChngRetry value=5.



- If External LAN = 0 then the reader works in WiFi mode. For WiFi mode we need to setup SSID and password. For WiFi mode, Baudconfig value =1.
- If External Card Reader value is 0 then it supports RFID. If External Card Reader value is 1 then it supports Barcode scanning.





LAN Interface Board – Configuration

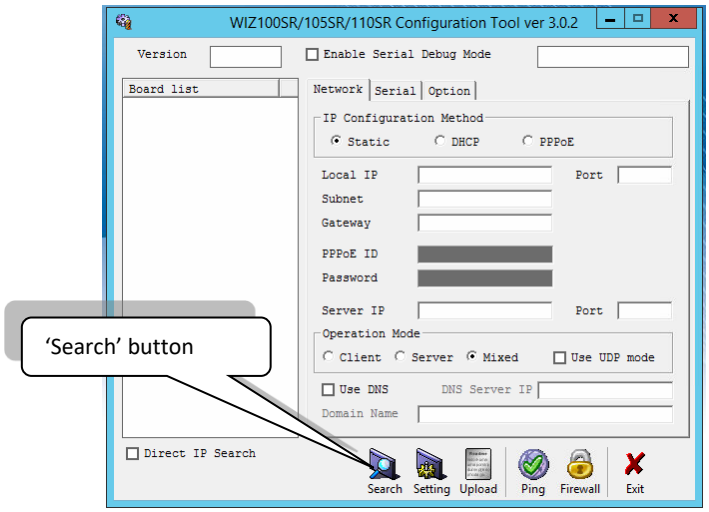
LAN interface board is configured using the tool called Wiz105SR configuration tool. This tool is usually provided and installed by Semnox. It can also be downloaded from the link:

http://www.wiznet.co.kr/Sub_Modules/en/product/product_detail.asp?Refid=710&page=1&cate1=&cate2=&cate3=&pid=1023&cType=2

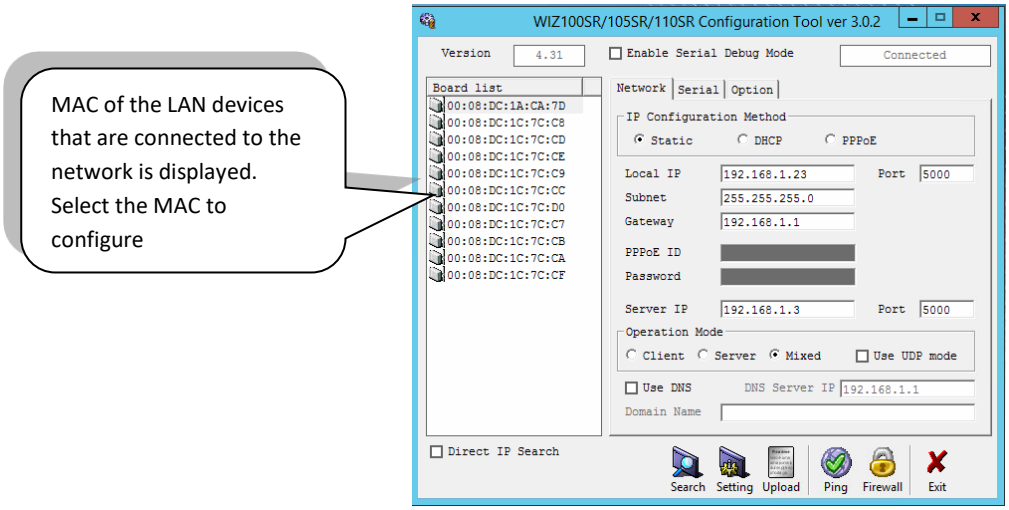
Follow the instructions to install 'WIZ100/105/110SR Config Tool '. Launch the Wiznet tool after installation is successful.

Wiznet Tool – Configuration Steps

Step 1: Launch the Wiznet tool. Click **Search** at the bottom of the screen. MAC of the LAN interface boards that are connected in the network are fetched and displayed.

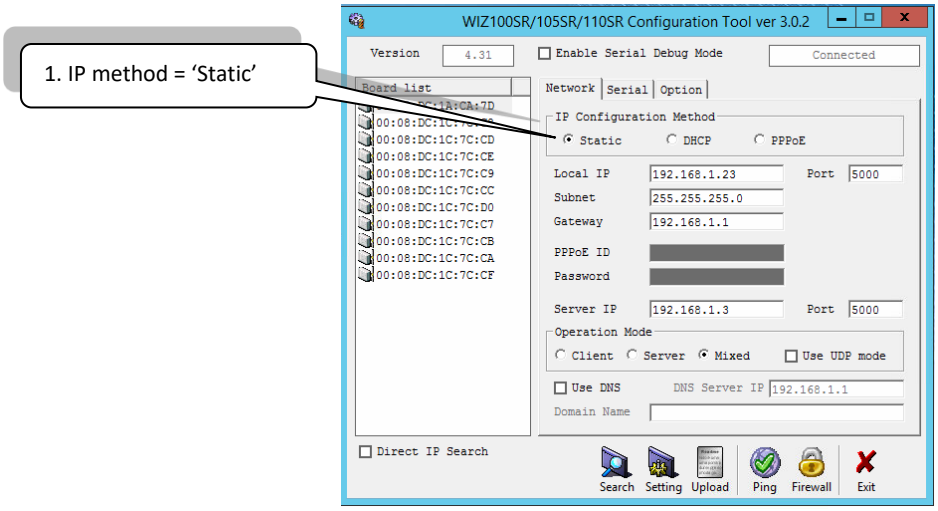


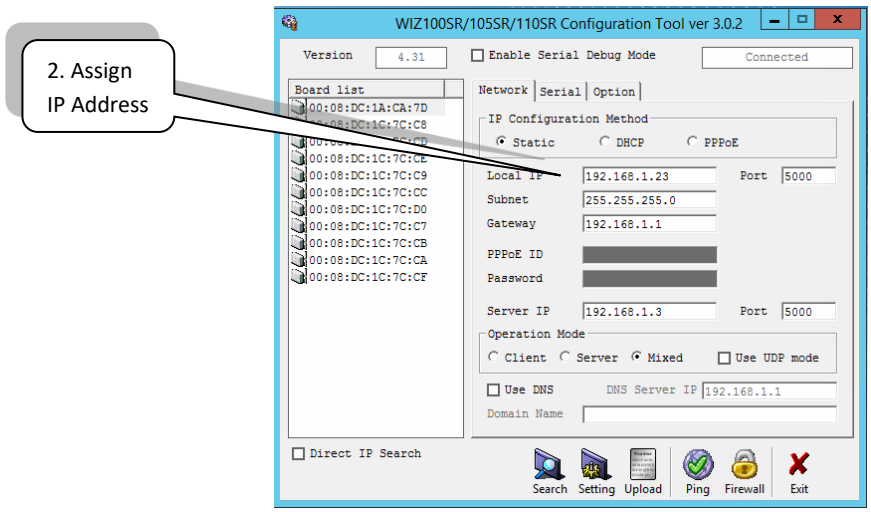
Step 2: Select the MAC to configure.

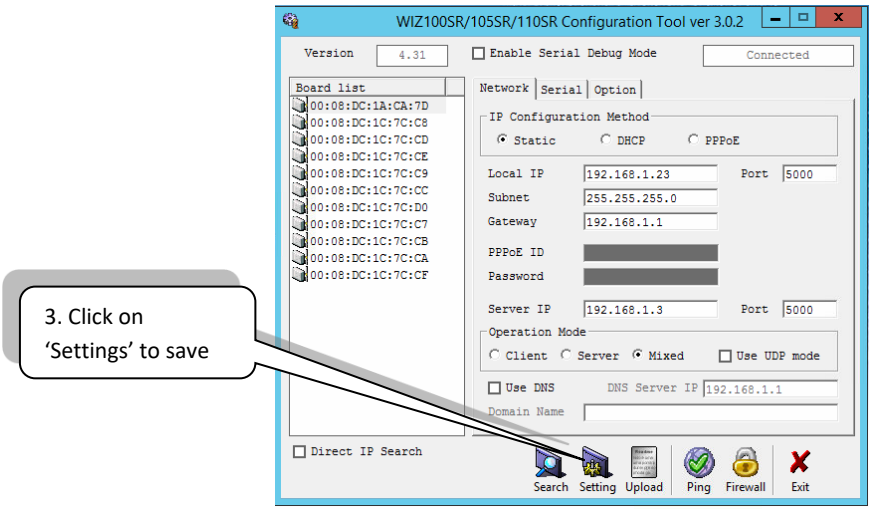


Step 3: Network Configuration

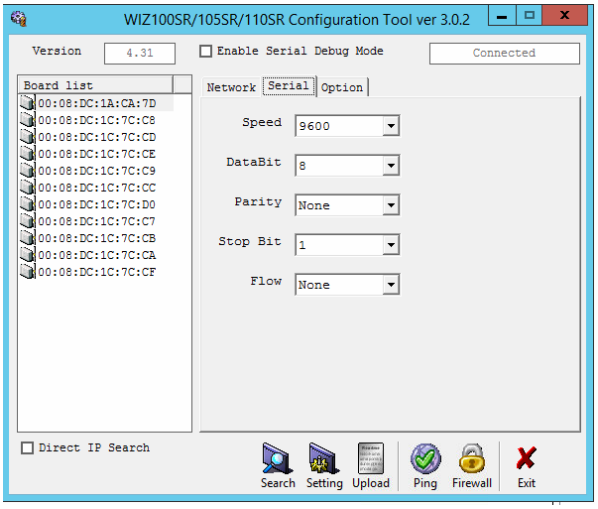
- Set IP configuration to 'Static'. It is recommended to use the module in static IP mode.
- Set IP, Gateway, Subnet. While assigning static IP, take all necessary precautions that the same IP is not assigned to any other device in the same network.
- Click **Setting** to save the parameters.





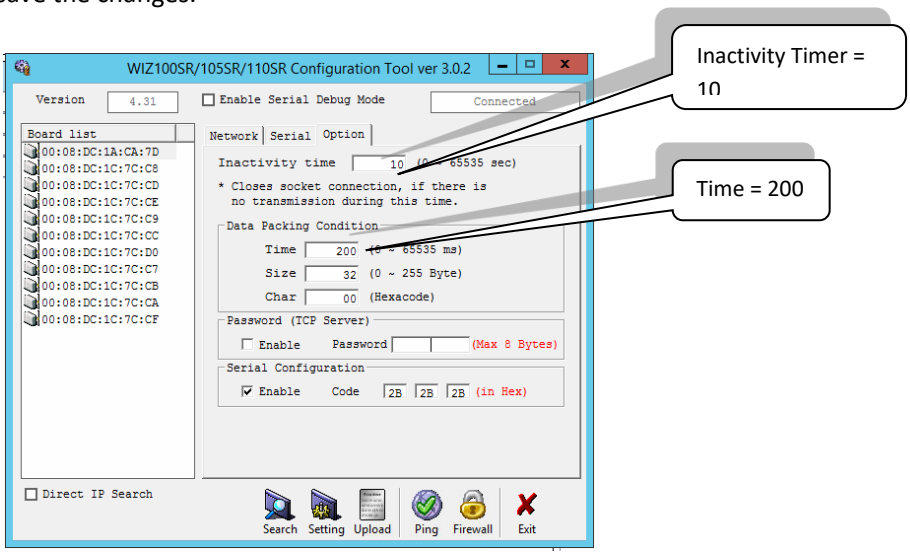


Step 4: Click on the tab 'Serial'. Verify if the values as shown in below reference image.



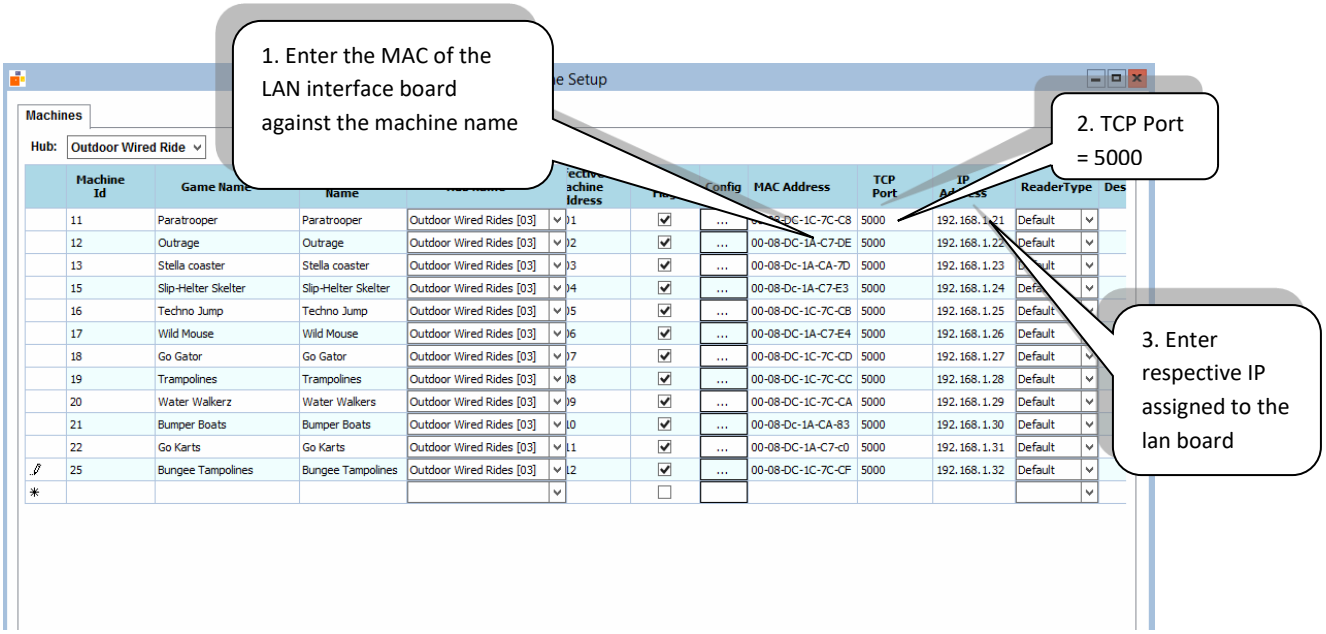
Step 5: Click on the tab, '**Option**'.

- Set Inactivity Time = 10 seconds
- Time = 200 ms
- Size = 32 Bytes
- Char = 0
- Click on 'Setting' to save the changes.



Management Studio Settings

MAC of the LAN interface board needs to be setup in Management Studio. This is setup in **Parafait Management Studio** > **Games** > **Machines**.

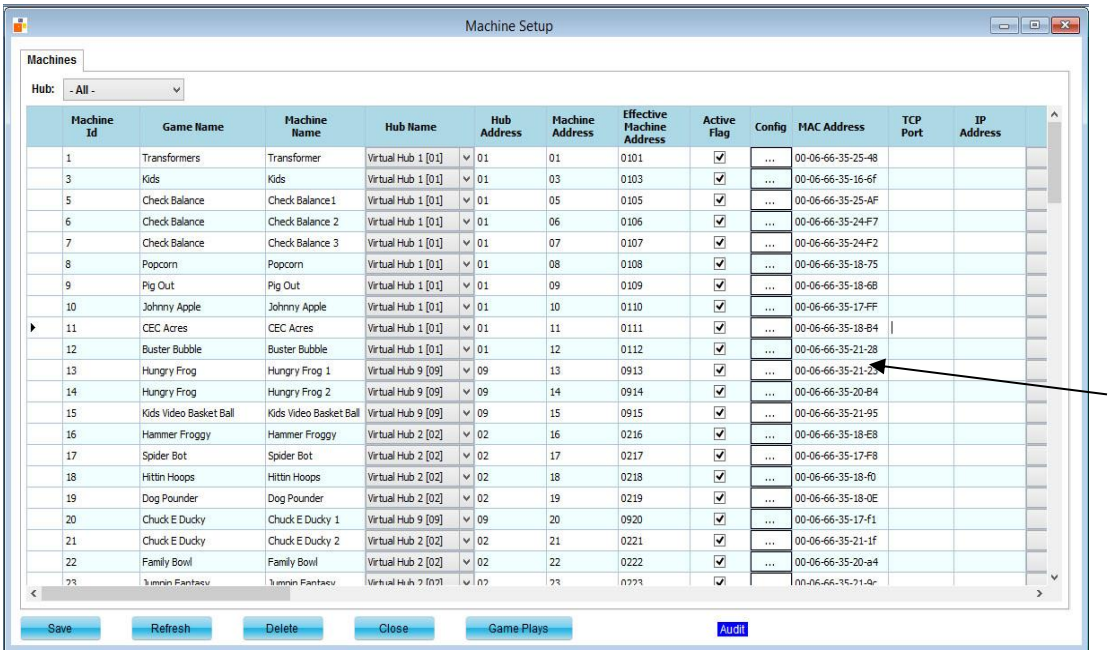


Reader Settings in Server

After installing the readers, all the readers should be entered in server. Each reader has a unique number called MAC Address. A sticker with MAC address is stuck on each reader. Make a note of MAC address of all the reads with name of games. Follow this procedure to enter the MAC address of the reader in server.

- Log into Parafait Management Studio
- Open **Games** Menu
- Open **Machines** screen

The following screen is displayed.



MAC Address

After entering the MAC Addresses, save and close the Machines screen.

FCC Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

The product complies with the FCC portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. Further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such a function is available.