

Wiz_INIT

Initial Configuration LAN Tool for
WizLAN Managed Devices

Installation and Configuration Guide

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Important Notice

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This document provides the required information for the Wiz-INIT application. It is intended for network administrators who are responsible for installing and setting up network equipment.

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Table of Contents

<i>Remote Initial Configuration Tool for WizLAN Managed Devices</i>	4
1. Installing the Wiz-INIT application	5
2. Running the Wiz-INIT application	5
2.1 Device discovery and response options.....	6
3. Configuring the IP and Community Parameters	9
4. Downloading Firmware to a Device	9
5. Menu Bar	10
5.1 Changing the Password	10
5.2 Restoring Factory Defaults.....	10
5.3 Reset target.....	11
5.4 Discovery.....	11
5.5 About	11
5.6 Exit.....	11

Initial Configuration LAN Tool for WizLAN Managed Devices

The final part in the installation of managed device is to configure its IP parameters, in accordance to the physical IP network and to allow remote management of the device.

This initial configuration defines the IP parameters of the device as well as provides options for downloading SW versions, restoring factory defaults, resetting the device and more.

The Wiz-INIT is a cross platform Java based application that allows initial IP configuration of WizLAN managed devices, through the LAN. Wiz-INIT eliminates the need for direct CLI connection to the device. To support Wiz-INIT LAN configuration, WizLAN devices include Wiz-INIT “agent” in both their .bin and boot-loader SW versions. The Wiz-INIT “agent” is included in all SW versions released starting December 2006.

Wiz-INIT comes as a parallel initial configuration option to the RS232 CLI port. Wiz-INIT enables remote configuration and device recovery in case of dead-lock situation (see Note in section 2.1) eliminating the need to physically reach the device. Future/new versions of WizLAN products may not carry external CLI port; thus initial configuration may only be possible using the Wiz-INIT application.

The Wiz-INIT application is available for free downloading in WizLAN website (www.wizlan.com) – at the SUPPORT → Download Zone → Tools.

To perform initial configuration using Wiz-INIT application one must do the following steps:

- Install the Wiz-INIT cross platform application on a workstation.
- Connect the workstation LAN port directly to any LAN port of the device or to the network on which the device to be configured is connected.
- Follow operation according to Section 2.

Note:

The workstation running Wiz-Init shouldn't have more than one operational/enabled Network Interface.

1. Installing the Wiz-INIT application

Download the Wiz-INIT application (executable file) to your work station. The Wiz-INIT application is available for downloading in WizLAN website (www.wizlan.com) – in the SUPPORT → Download Zone → Tools.

To install the application, click on the program icon, the installation wizard window will appear.

Follow the instruction of the installation wizard till completion.

2. Running the Wiz-INIT application

Before activating Wiz-Init, please check that the Firewall on the workstation is disabled, and it is preferred that it will be the only Wiz-Init application running on the network. To run the Wiz-INIT application, click the program icon to invoke the application. The following screen is displayed.

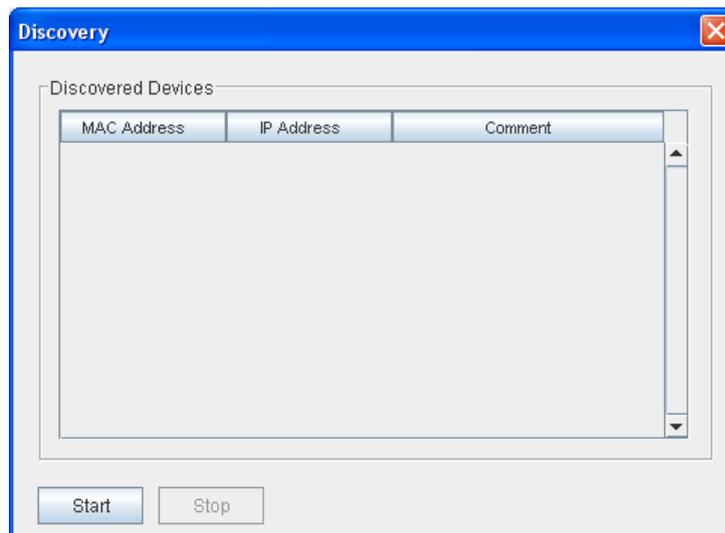


Figure - 1 *Wiz-INIT Discovery screen*

Click **Start** to begin the discovery process.

The Discovered Device list will be cleared, and new discovered devices will be added to the list. When the process is complete (you don't get new entries to the Discovered Devices list), you may **Stop** the discovery and sort the table by MAC addresses or IP Addresses.

2.1 Device discovery and response options

During the discovery process, Wiz-Init sends layer 2 Ethernet broadcasts and multicast frames to the network, requesting all WizLAN managed devices to respond with their relevant parameters. The requests are sent periodically, every second, until the discovery is stopped, or you connect to any of the discovered devices.

WizLAN devices respond to Wiz-Init requests by sending back a special broadcast transmission that is generated from one of two firmware sources:

1. The functional application (.bin file) of the device, if the device is properly running.
2. The boot loader, immediately after device startup if the boot loader detects Wiz-Init requests within the first 5 seconds after the device startup/power-up.

If the boot loader detects Wiz-Init request(s) within the first 5 seconds after startup, it responds with a special broadcast frame and halts.

The boot loader is released from the halt state and continue to boot and restart the device after one of the following events:

- a. It stops receiving Wiz-Init requests for few seconds.
- b. If it receives a Wiz-Init broadcast addressed to another device (not the standard discovery broadcast).
- c. If Wiz-Init connect to the device and sends restart command.

Note: In case of device/access deadlock or SW corruption, one should first activate the Wiz-Init discovery and then power-up/restart the device. The device should be discovered via its boot loader (case #2 of the above) and then firmware download and/or restoring factory defaults can be activated to fix the device.

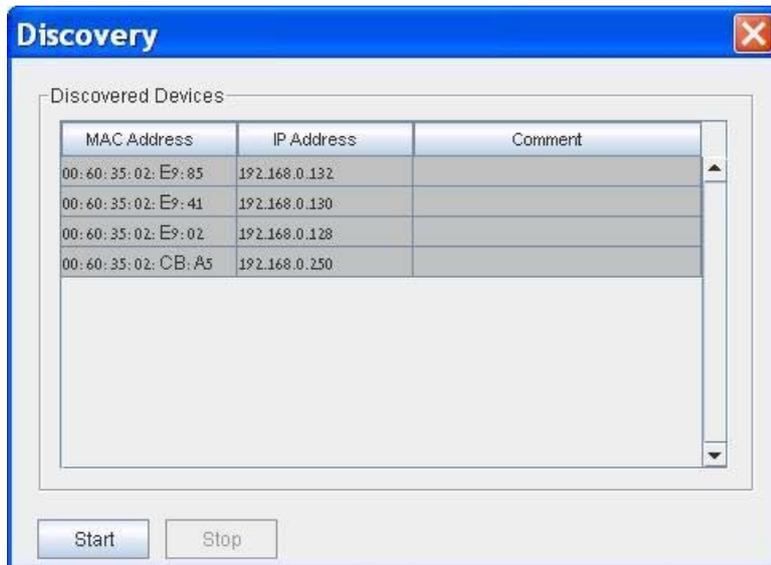


Figure - 2 Wiz-INIT Discovery screen - Discovered Devices

Select (double click) the device you wish to configure remotely. The *Wiz-INIT Password prompt dialog* is displayed, and the auto discovery stopped.

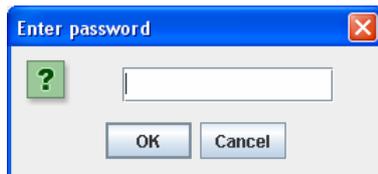


Figure - 3 Wiz-INIT Password prompt dialog

Type in the default WizLAN password: “**mypass**” and click **OK**. The default password is a device property that can be changed. To change the password see paragraph 5.1.

The *Wiz-INIT* screen is displayed.

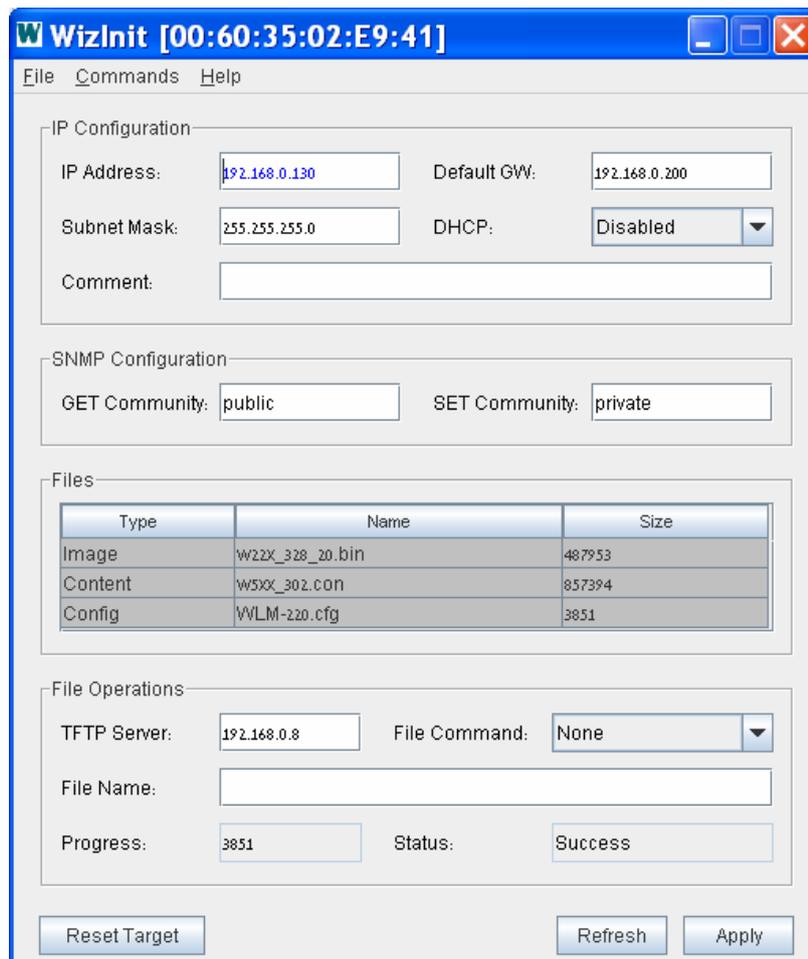


Figure - 4 Wiz-INIT main screen

The main screen includes four sections:

1. **Menu Bar**, including File, Commands and Help
2. **IP Configuration** section, displaying the current device setting of the IP parameters.
3. **SNMP Configuration** section, displaying the current device setting of the GET/SET community strings.
4. **Files section**, displaying the files currently installed on the device.
5. **File Operation** section, where file downloading can be invoked.

Special buttons:

1. **Apply**, click this button to apply the changes or restart the file operation.
2. **Refresh**, click this button to refresh the window display, and check that the required changes were correctly accepted by the device.
3. **Reset target**, click this button after all changes were made. The Reset Target also exists in the COMMAND tab.

Resetting is required to activate the new configuration.

3. Configuring the IP and Community Parameters

WizLAN managed devices are shipped with pre-configured default parameters. The default parameters may change between models. Please go through all the parameters and change them according to your network and connectivity needs.

Following are the default settings:

- IP Address **192.168.0.xxx**
- Default Gateway **192.168.0.200**
- Subnet mask **255.255.255.0**
- DHCP **Disabled**
- Get Community **Public**
- Set Community **Private**
- TFTP Server Address **192.168.0.xxx**
- Default password – **mypass** (case sensitive)

In the IP Configuration section, you can add a **comment** to the specific device (for example: location, device “name” etc.). The comment is only visible to the Wiz-INIT application. The comment is saved in the device.

4. Downloading Firmware to a Device

Downloading firmware to the device using Wiz-Init, is done through the **File Operation** section (please see figure 4).

To download a file you first have to copy the file to the home/root directory of a TFTP server connected on your network.

In the File operation section, proceed as follows:

1. Fill-in the IP address of the TFTP server in the **TFTP Server** field.
2. In the **File Name** field fill-in the file name to be downloaded to the device.
3. Select the File Command according to the file you want to download, Download Image to download the image file (.bin), and Download Content to download the content file (.con).
4. Click the Apply button to activate and start the download process.

The Download process goes through few steps indicated at the Progress and Status fields. The Status field shows the download step (Ready, Verifying, Downloading, Success/Fail), while the Progress field shows download counter progress. While Verifying, the device goes through a fast dummy download to check the access to the TFTP server, and the file to be download (name, size etc.). Only if successful it goes to the next step of actual download to the device memory.

5. Menu Bar

The menu bar includes three pop down menus: File, Commands and Help. The following processes are made through the manus:

5.1 Changing the Password

To change the password used to access a device via Wiz-INIT, CLI and Telnet, proceed as follows:

1. On the Wiz-INIT screen, click the **File** menu, and choose **Change Password**. The following dialog is displayed.



Figure - 5 Changing the Wiz-INIT password

2. In the **Password** field, enter the current password (default password is "mypass").
3. In the **New Password** and **Verify Password** fields, enter your new password.

5.2 Restoring Factory Defaults

To restore factory defaults proceed as follows:

1. On the Wiz-INIT screen, click the **Commands** menu, and choose **Restore factory Defaults**. The following dialog is displayed.

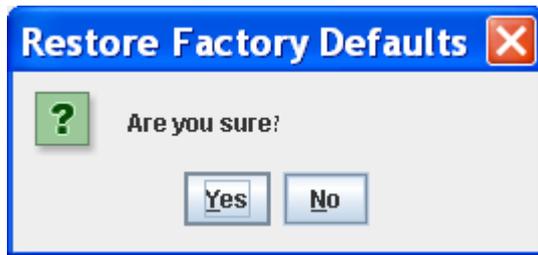


Figure - 6 Restore Factory Defaults

2. Select "YES" to restore the device's factory defaults.

5.3 Reset target

On the Wiz-INIT screen, click the **Commands** menu, and choose **Reset Target** to reset the device and activate the updated configuration. You will be prompted to confirm. Device reset is always required to activate new configuration.

5.4 Discovery

On the Wiz-INIT screen, click the **Commands** menu, and choose **Discovery** to exit the device and return to the discovery window.

5.5 About

On the Wiz-INIT screen, click the **Help** menu, and choose **About** to get the Wiz-INIT version number and date.

5.6 Exit

On the Wiz-INIT screen, click the **File** menu, and choose **Exit** to exit the program.