

How to set IP address on a Sigma Lite



Please Read

- If your Sigma Lite reader was manufactured after week 13 2017 the reader comes with a Static IP address of 192.168.1.10, also they would have some information in the box indicating the IP address.

- How to tell the manufactured date:

- *Example

- 1649SML000XXXX



- The first two numbers are the Year, (*example)2016
- The second two numbers is the week, (*example)49th week
- This reader(*example) does not have a 192.168.1.10 address
- Read the following on how to program with a Static IP address

Equipment needed

- USB to Micro-USB Cable
- * this cable **must** be straight through*



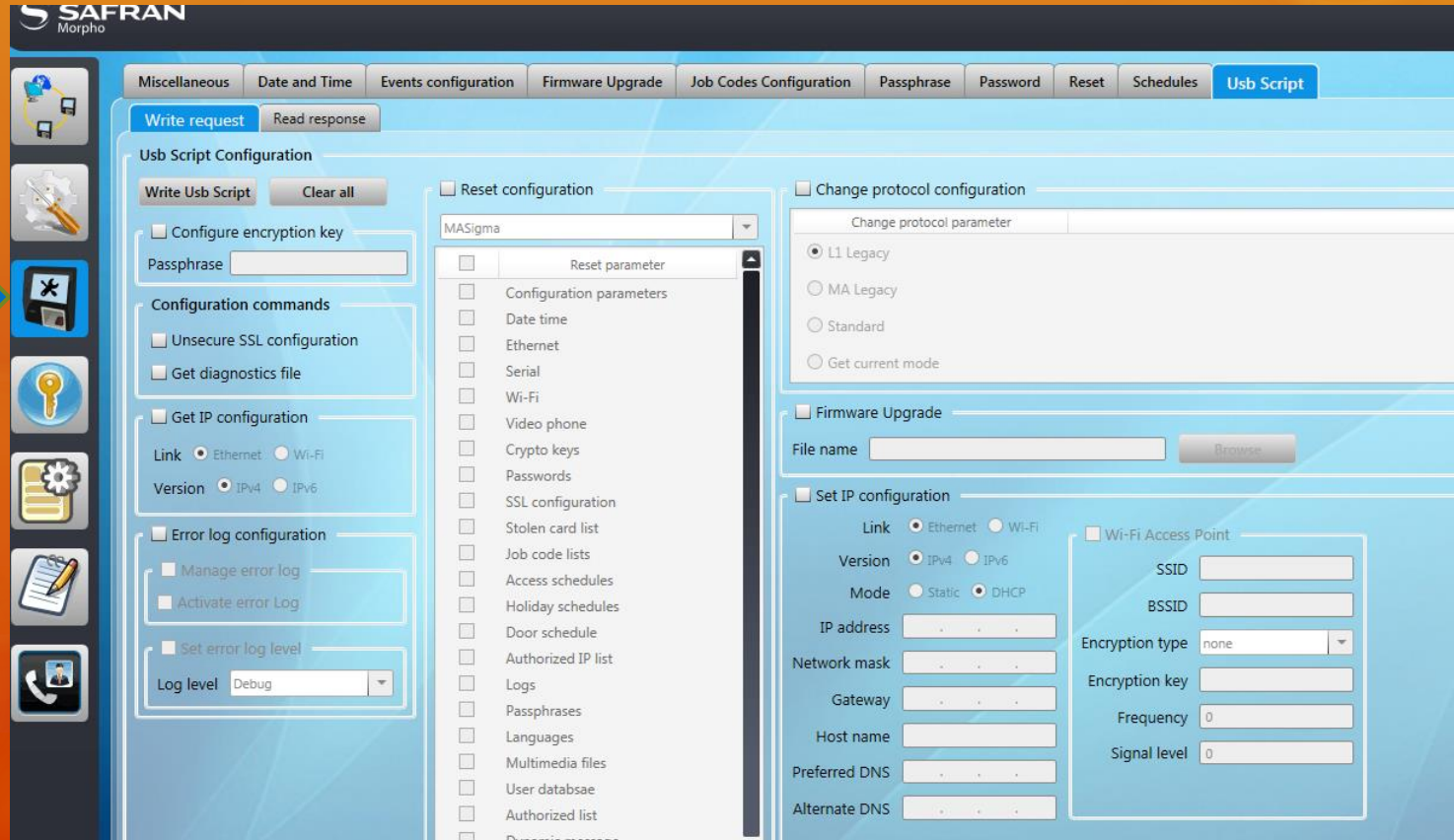
- Flash drive from 2 GB to 16 GB on USB 2.0
- SIGMA Lite will only read/write to USB drives formatted in FAT or FAT32
- POE Power or separate power
- *POE=Power over Ethernet

Software needed

- Morpho Tool Box 3.X.X and Higher
- Download it from <http://service.morphotrak.com/software-links.html>
- Unzip it and install on your PC

Launch Morpho Tool Box

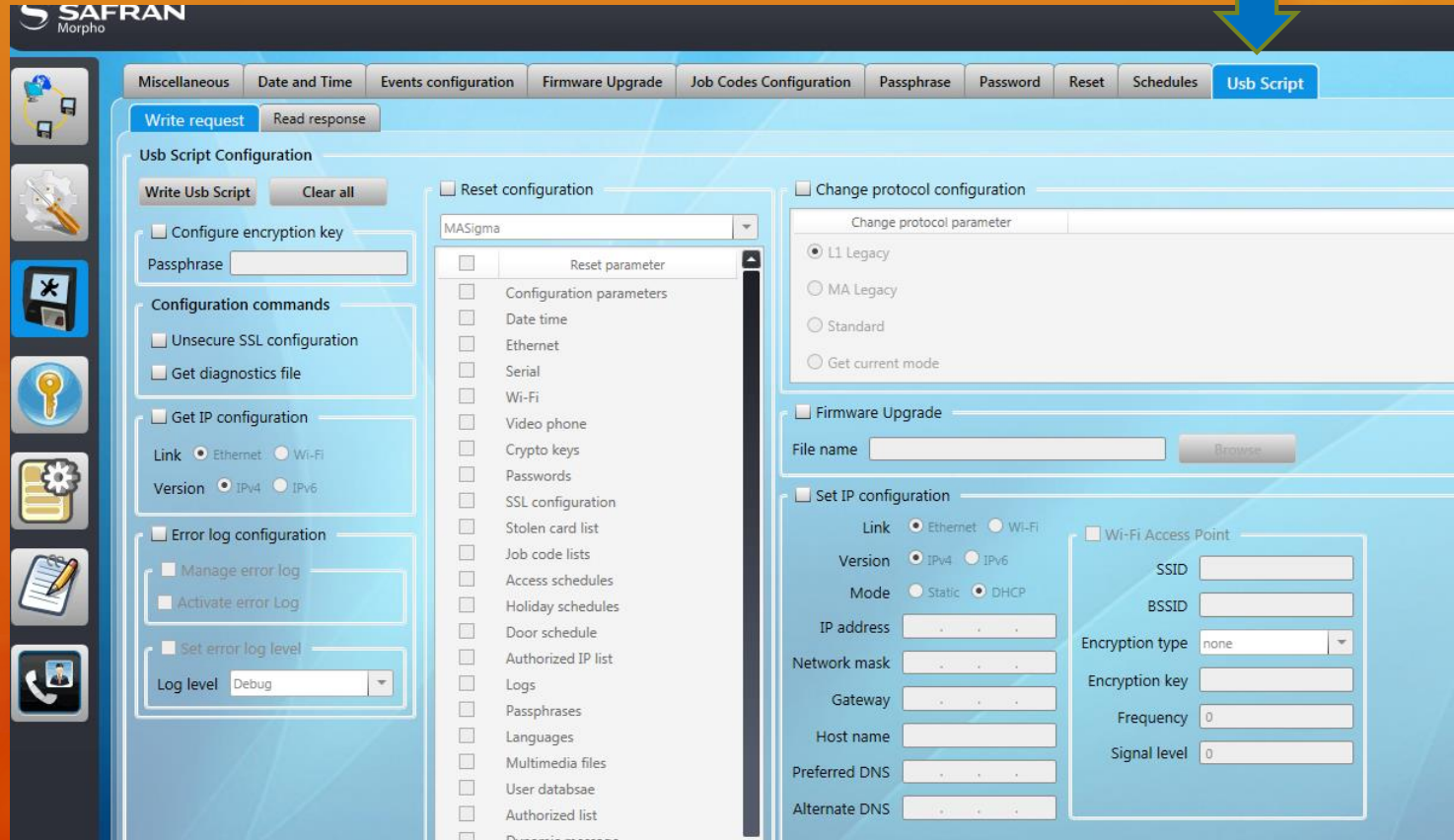
- Open up Morpho Tool box and click on third Icon from top to bottom



The screenshot displays the SAFRAN Morpho web interface. The top navigation bar includes tabs for Miscellaneous, Date and Time, Events configuration, Firmware Upgrade, Job Codes Configuration, Passphrase, Password, Reset, Schedules, and Usb Script. The Usb Script tab is active, showing a 'Write request' and 'Read response' section. The main content area is divided into several configuration sections: 'Usb Script Configuration' with 'Write Usb Script' and 'Clear all' buttons; 'Configuration commands' with options for 'Unsecure SSL configuration' and 'Get diagnostics file'; 'Get IP configuration' with 'Link' (Ethernet/Wi-Fi) and 'Version' (IPv4/IPv6) options; 'Error log configuration' with 'Manage error log', 'Activate error Log', and 'Set error log level' options; 'Reset configuration' with a dropdown menu set to 'MASigma' and a list of parameters to reset; 'Change protocol configuration' with options for 'L1 Legacy', 'MA Legacy', 'Standard', and 'Get current mode'; 'Firmware Upgrade' with a 'File name' input and 'Browse' button; and 'Set IP configuration' with options for 'Link', 'Version', 'Mode', 'IP address', 'Network mask', 'Gateway', 'Host name', 'Preferred DNS', 'Alternate DNS', and 'Wi-Fi Access Point' settings.

Tool Box configuration

- Click on the tab that says USB Script

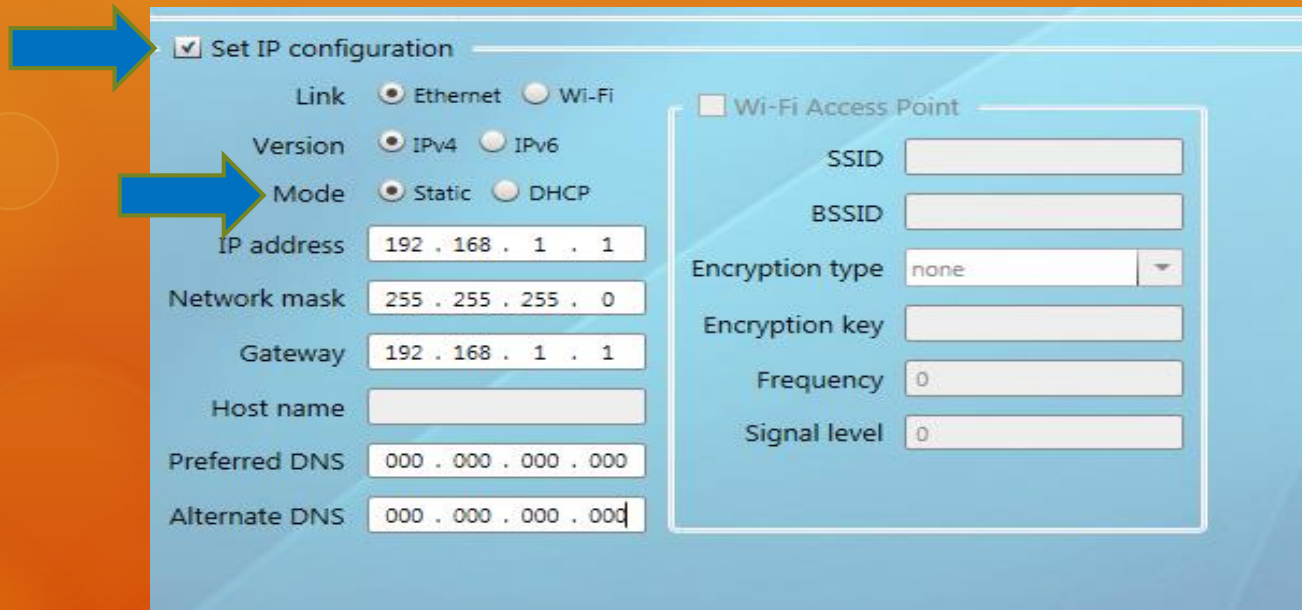


The screenshot displays the SAFRAN Morpho configuration interface. At the top, a navigation bar contains several tabs: Miscellaneous, Date and Time, Events configuration, Firmware Upgrade, Job Codes Configuration, Passphrase, Password, Reset, Schedules, and **USB Script**. A blue arrow points to the USB Script tab. Below the navigation bar, the interface is divided into several sections:

- Write request / Read response**: A section with two buttons.
- Usb Script Configuration**: The main configuration area, containing:
 - Write Usb Script** and **Clear all** buttons.
 - Configure encryption key**: Includes a **Passphrase** input field.
 - Configuration commands**: Includes checkboxes for **Unsecure SSL configuration** and **Get diagnostics file**.
 - Get IP configuration**: Includes radio buttons for **Link** (Ethernet, Wi-Fi) and **Version** (IPv4, IPv6).
 - Error log configuration**: Includes checkboxes for **Manage error log** and **Activate error Log**, and a **Set error log level** dropdown menu set to **Debug**.
 - Reset configuration**: A dropdown menu set to **MASigma** and a list of checkboxes for various parameters to be reset, including Configuration parameters, Date time, Ethernet, Serial, Wi-Fi, Video phone, Crypto keys, Passwords, SSL configuration, Stolen card list, Job code lists, Access schedules, Holiday schedules, Door schedule, Authorized IP list, Logs, Passphrases, Languages, Multimedia files, User databsae, Authorized list, and Dynamic message.
 - Change protocol configuration**: Includes a **Change protocol parameter** dropdown and radio buttons for **L1 Legacy** (selected), **MA Legacy**, **Standard**, and **Get current mode**.
 - Firmware Upgrade**: Includes a **File name** input field and a **Browse** button.
 - Set IP configuration**: Includes radio buttons for **Link** (Ethernet, Wi-Fi), radio buttons for **Version** (IPv4, IPv6), radio buttons for **Mode** (Static, DHCP), and input fields for **IP address**, **Network mask**, **Gateway**, **Host name**, **Preferred DNS**, and **Alternate DNS**.
 - Wi-Fi Access Point**: Includes input fields for **SSID**, **BSSID**, a dropdown for **Encryption type** (set to none), an input field for **Encryption key**, and input fields for **Frequency** and **Signal level**.

Tool Box, IP configuration

- Check Set IP configuration
- Click on the Static button



The screenshot shows a network configuration window with the following fields and options:

- Set IP configuration
- Link: Ethernet Wi-Fi
- Version: IPv4 IPv6
- Mode: Static DHCP
- IP address: 192 . 168 . 1 . 1
- Network mask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 1 . 1
- Host name: [empty]
- Preferred DNS: 000 . 000 . 000 . 000
- Alternate DNS: 000 . 000 . 000 . 000
- Wi-Fi Access Point
 - SSID: [empty]
 - BSSID: [empty]
 - Encryption type: none
 - Encryption key: [empty]
 - Frequency: 0
 - Signal level: 0

- ** If you do not know or have DNS information please put 0's in place

Tool Box, write USB script

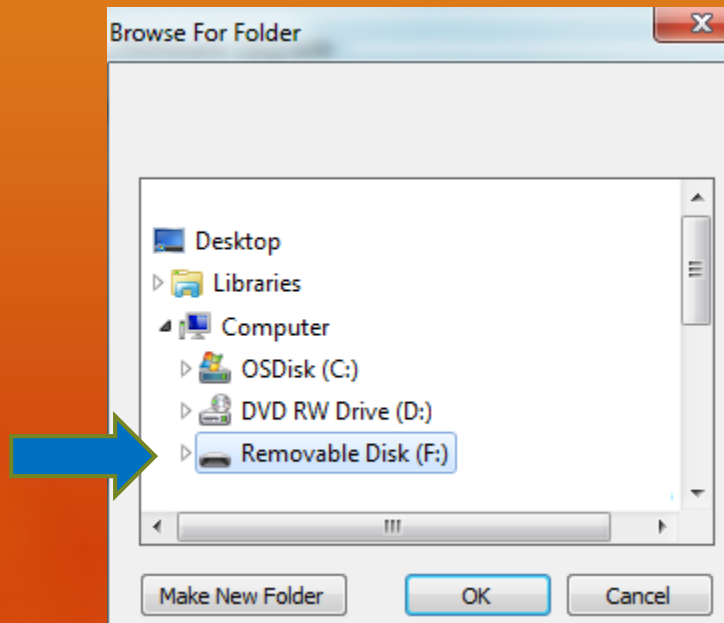
- Once you have set your configuration click on write to USB script

The screenshot shows a web-based configuration interface for a device. At the top, there are two tabs: 'Write request' (active) and 'Read response'. Below the tabs is the 'Usb Script Configuration' section. A blue arrow points to the 'Write Usb Script' button. The interface is divided into several panels:

- Write Usb Script:** Contains a 'Clear all' button and a 'Configure encryption key' section with a 'Passphrase' input field.
- Configuration commands:** Includes checkboxes for 'Unsecure SSL configuration' and 'Get diagnostics file'.
- Get IP configuration:** Features radio buttons for 'Link' (Ethernet, Wi-Fi) and 'Version' (IPv4, IPv6).
- Error log configuration:** Includes 'Manage error log', 'Activate error Log', and 'Set error log level' (with a dropdown menu set to 'Debug').
- Reset configuration:** A dropdown menu shows 'MASigma'. Below it is a list of 'Reset parameter' options, each with a checkbox. The first option, 'Reset parameter', is checked.
- Change protocol configuration:** Includes radio buttons for 'L1 Legacy', 'MA Legacy', 'Standard', and 'Get current mode'.
- Firmware Upgrade:** Includes a 'File name' input field and a 'Browse' button.
- Set IP configuration:** Includes radio buttons for 'Link' (Ethernet, Wi-Fi) and 'Version' (IPv4, IPv6), and radio buttons for 'Mode' (Static, DHCP). It also has input fields for 'IP address' (192.168.1.1), 'Network mask' (255.255.255.0), 'Gateway' (192.168.1.1), 'Host name', 'Preferred DNS' (000.000.000.00), and 'Alternate DNS' (000.000.000.000).
- Wi-Fi Access Point:** Includes input fields for 'SSID', 'BSSID', 'Encryption type' (none), 'Encryption key', 'Frequency' (0), and 'Signal level' (0).

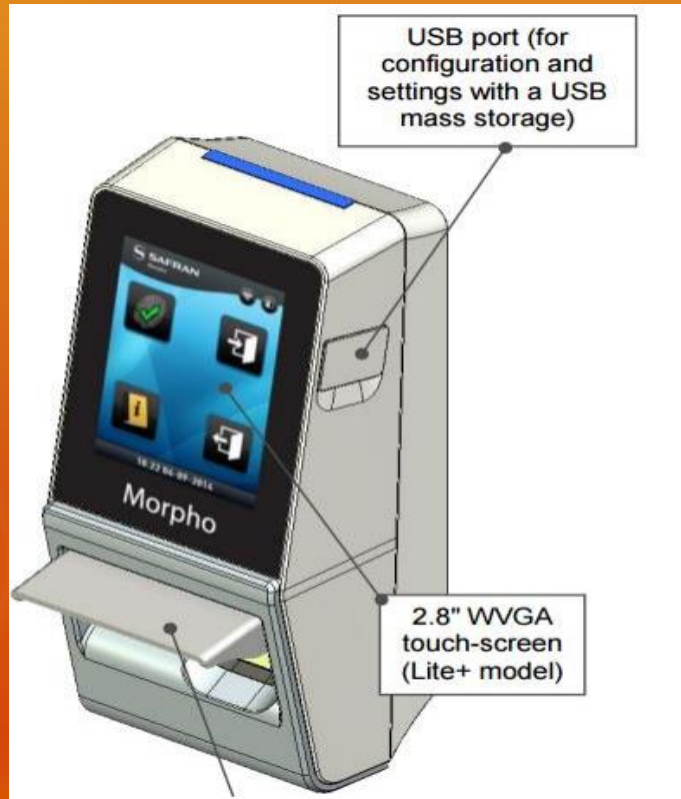
Tool Box, write USB script

- Browse to your Flash drive to write the script



Add configuration to Sigma Lite

- Separated plug from the USB port and plug in Micro USB to Female USB adaptor with Flash drive



Example Picture

- With power to the Sigma Lite reader , when plug in Flash drive reader should flash and turn green and reboot.
- Test with ping command afterwards



Other Information

- DHCP enable from factory
- As soon as you plug it into a Switch it will assign a IP address
- If plug into a network use a IP scanner or talk to your IT department to located the Mac address of reader
- *if you have a Sigma Lite Plus you can verify IP address from LCD screen

Troubleshooting

- **Problem:** Reader does not accept IP address
- *Solution:* leave Adaptor with Flash drive plug in and power cycle the reader
- **Problem:** Reader does not react when plug in Flash drive
- *Solution:* USB Flash drive is not configure or not compatible or IP information is incorrect.
- **Problem:** Cannot see reader in Morpho Tool box
- *Solution:* Once change to L1 Legacy mode you will not be able to access with Morpho tool box
- **Problem:** Change Sigma to L1 Legacy mode, can't see it in Secure Admin Lite
- *Solution:* Any Sigma Series in L1 Legacy mode needs to use ****Secure Admin Software**
- ****Note:** Use Secure Admin software 4.1.20.01

Website

- Please visit Service@morphotrak.com for software, firmware, videos and PDF's.