

CONFIGURATION MANUAL

English version

Frama F-Link

Configuration Manual (EN)

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Safety precautions and warnings

Thank you for deciding to use the Frama F-Link.

The information in this guide is intended to support you during the configuration of the Frama F-Link unit.

This networking unit meets currently valid safety regulations. Inappropriate use, however, can lead to personal injury or damage to property. With this in mind, please first read this guide before you put the unit into service. By doing so, you will protect yourself and avoid damaging the unit. Store this guide carefully and pass it along to any subsequent owner.

Symbols used

This configuration guide uses the following symbols:



Danger!

This symbol points to dangers and safety risks when handling, operating or servicing the F-Link unit which could result in personal injury.



Note!

This symbol points to valuable guidelines and instructions for handling the F-Link unit which can eliminate the risk of damage to the F-Link, the franking system, the mail items or the immediate surroundings.



Tip!

Interesting notes and tips for efficient handling of the F-Link.

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1 Introduction

This manual describes the configuration of the device F-Link for the operation with a Frama franking system. To install the F-Link on a Frama franking system the installation manual shipped with the device. [F-Link Installation Manual, Order-Nr: 1018863] shall be used.

The F-Link can be configured via the configuration page. For configuration tasks an additional PC with internet web browser is needed.

The F-Link configuration pages are supported by the following internet web browsers:

- Mozilla Firefox 13.0 and newer
- Microsoft Internet Explorer 9.0 and newer
- Google Chrome 20.0 and newer
- Apple Safari 5.1.7 and newer

This version of the configuration manual is based on the screenshots and features of firmware release version F-Link 2-2-10 / Image 1-0-22.

2 F-Link Specifications

Connection / Protocols

- IPv4 (only)
- Security standard TLS 1.2 SHA-II
- (wired) 100 Base-T (10/100Mbsp RJ45)
- (wireless) IEEE 802.11n/g or b
- WLAN security: WPA2, WPA-PSK (AES, TKIP, TKIPAES)/Mixed Mode, WEP (64/128bit)
- DHCP Standard, Forward Proxy

3 System Requirements

In order to connect your Franking System via F-Link with the FramaOnline2 system, you require the following.

Firewall

- Port 443 open
- Port 53 open if the DNS is located outside the network the F-Link is connected to

Infrastructure:

- An Ethernet network socket that connects to the Internet
- The F-Link must be able to access DNS via TCP port 53
- The F-Link must be able to communicate via TCP port 443 (https / TLS) to the URL fo2.frama.com

Proxy server

• The F-Link supports connection via an http proxy server with basic authentication or without authentication.



Note!

Communication via Proxy Server with SSL/TLS Interception is not supported!

Due to security requirements, the F-Link cannot connect through an https proxy server that intercepts the TLS v1.2 encrypted communication.



Tip

Proxy servers using SSL/TLS-interception require a specific rule in order to allow transparent communication (Franking System via F-Link to FramaOnline) via https port 443.

The specific rule grants correct identification of FramaOnline2 (https certificate) for the F-Link.

4 Configurations Variants

DHCP (see chapt. 4.1.1)

The F-Link is preconfigured for wired operation in a LAN network with a DHCP server. In this case, normally no additional configuration is required.

Static IP (see chapt. 4.1.4)

Fix IP setting requires full information about the Network configuration.

- With Proxy or without Proxy server
- With basic authentication or without authentication

Wireless (see chapt. 4.2)

The F-Link device can also operate with a wireless network. Refer to chapt. 2.2 Wireless Operation about installing the F-Link for wireless operation.



Note!

Configuration in environment with "open access points"

To prevent an automatic connection with open access points dismount the WI-FI antenna until the F-Link has been set to WI-FI function.



Note!

During first connection to the Frama FO2 backend system, the F-Link will be configured (e.g. country code, language, time ...) automatically. Thus the very first connection takes longer time than subsequent ones.

Alias IP 192.168.1.200 (factory default)

- From factory the F-Link is configured with the Alias IP address 192.168.1.200.
- The F-Link Alias IP address in no longer accessible, once the device was used with any other static or DHCP IP address.
- The Alias IP address can be re-established with a Reset function.

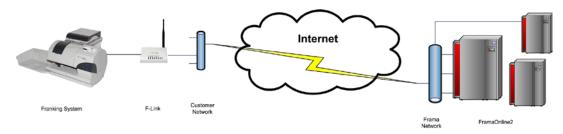
Reset the F-Link configuration (set back to factory default)

Status: Ready LED must be permanently lit

- Disconnect LAN cable
- Press the reset button for a minimum of 10 seconds
- Wait until the Ready LED is permanently lit again
- Connect LAN cable.

4.1 Wired operation

The F-Link supports operation with dynamic IP address assigned by a DHCP server or with a static IP address configured via configuration page.



4.1.1 DHCP Mode

The factory default LAN connection type is DHCP (auto configuration). The F-Link can be connected to the network with an active DHCP server as described in the installation manual. After powering-up the F-Link gets an IP address from the DHCP server in the LAN network.

In most cases no additional configuration is required and the F-Link operates with the franking system.

4.1.2 DHCP Mode with Proxy Server

If the internet connection is handled via proxy server, the proxy configuration has to be setup first. For connecting to the configuration pages of the F-Link device, the dynamic assigned IP address has to be known. Chapter 2.1.3 outlines, how this IP address can be identified.

The determined IP address can now be typed into the browsers address field to access the F-Link configuration page. See Chapter 3 for further details.

4.1.3 Identifying the dynamic IP address (DHCP) of an F-Link device

Identifying this address can be done in several ways:

- A) With franking system displayed Error message

 The IP address is shown as a part of the error message on the franking system.

 If the F-Link device is not able to connect with the Frama FO2 server, a corresponding error message will be displayed. Several messages show a hint for configuring of the F-Link. This hint includes the current IP address of the device!
- B) Search over ARP table
 The IP address can be find out by consulting a listing (e.g. arp table) which shows the assignments between MAC and IP addresses inside a DHCP network. The MAC address of the F-Link can be found at the sticker at the bottom of the device.
- C) Frama AG IP Finder Tool

Search in your Network for the DHCP IP address of the F-Link with the IP Finder tool.

- Download the Frama F-Link IP Finder tool, from <u>www.frama.com/support</u> to your PC.
 (Only Windows operating systems like Windows XP, Windows 7 are supported)
- Start the Frama F-Link IP Finder tool
- Enter the MAC address of the F-Link which can be found at the sticker at the bottom of the device. Choose MAC for LAN (cable) or WLAN (WI-FI).
- Press the Search button
- The Frama F-Link IP Finder tool scans all IP addresses in your network. If an F-Link was found with this MAC address an entry will be showed in the result list.
- The F-Link configuration page can be opened now with the default internet web browser on your PC by clicking on the IP address in the list

4.1.4 Static Mode

The F-Link device can operate with a static IP address. The factory default LAN connection type is DHCP (auto configuration).



If the F-Link was used with LAN connection type DHCP or STATIC before for connections, the access to the F-Link configuration page by the Alias IP address 192.168.1.200 and a direct LAN cable is only possible after a reset of F-Link.

Changing to a static IP address over Alias IP address 192.168.200:

- 1. Connect the F-Link device <u>directly</u> with a LAN cable to a PC (A cross-wired LAN cable is needed if the PC doesn't support auto-MDIX).
- Note the PC LAN network settings for later use.
 Set the PC LAN network settings as follow:
 IP address: 192.168.1.199

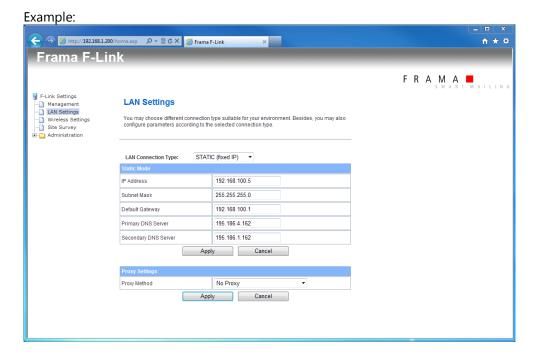
Subnet mask: 255.255.255.0

- 3. Turn on the F-Link and wait until the Ready LED of the F-Link is permanently on.
- 4. Open internet web browser on PC.
- 5. Insert the F-Link default IP 192.168.1.200 into address field.



- 6. Login with username and password. (Default username: "admin" and password: "admin").
- 7. Open configuration page LAN Settings.
- 8. Change LAN connection type to "STATIC (fixed IP)".

9. Enter the IP settings for F-Link accordingly to your network.



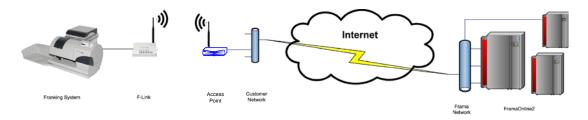
Press button "Apply". -> F-Link reboots. Wait until Ready LED of the F-Link is on again. (The execution of the command may need to be confirmed in the internet web browser)

- 10. Turn off F-Link.
- 11. Disconnect direct LAN network cable between F-Link and PC.
- 12. Set the LAN network settings of the PC back to the previous values (refer to your notes).
- 13. Connect the F-Link device to the LAN network for the operation with the franking system.
- 14. Turn on the franking system and the F-Link.
- 15. Execute business processes on the franking system when the Ready LED of the F-Link is on.

It's also possible to change to a static IP address when F-Link uses currently a DHCP IP address. In this case the dynamic assigned IP address has to be entered into the browser address field. Processes for finding out this address are described in Chapter 4.1.3.

4.2 Wireless operation

The F-Link device can also operate with a wireless network. By default the F-Link is configured to operate with a wired connection. Refer to the install manual for information about installing the F-Link on the franking system for wireless operation.





If the F-Link was used with LAN connection type DHCP or STATIC before for connections, the access to the F-Link configuration page by the default IP address 192.168.1.200 and a direct LAN cable is only possible after a reset of F-Link.

Configuring the F-Link for wireless operation over Alias IP address 192.168.1.200:

- Connect the F-Link device <u>directly</u> with a LAN cable to a PC (A cross-wired LAN cable is needed when the PC doesn't support auto-MDIX).
- Note the PC LAN network settings for later use.
 Set the PC LAN network settings as follows:

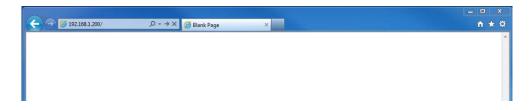
IP address: 192.168.1.199 Subnet mask: 255.255.255.0



Configuration in environment with "open access points"

To prevent an automatic connection with open access points dismount the WI-FI antenna until the F-Link has been set to WI-FI function.

- 3. Turn on the F-Link and wait until the Ready LED of the F-Link is on.
- 4. Open internet web browser on PC.
- 5. Insert the F-Link default IP 192.168.1.200 into address field.



- 6. Login with username and password. (Default username: "admin" and password: "admin").
- 7. Open configuration page Wireless Settings.



Press button "Wireless ON" -> Please wait. The wireless function will be enabled. (The execution of the command may need to be confirmed in the internet web browser)



- 8. Wait until Ready LED of the F-Link is switched on again. Wait until home site is displayed again. Open configuration page Site Survey
- 9. Press button "Scan AP"

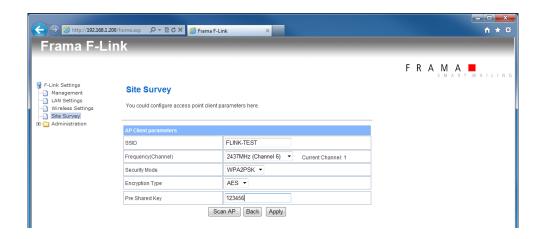


- 10. Select the wireless network which shall be used. Press button "Next".

 If your wireless network uses Hidden-SSID then press button "Next" without selecting a wireless network.
- 11. Select the channel¹, security mode and encryption type for your wireless network. Insert the passphrase / security keys for your wireless network.

 Insert also the SSID of your wireless network even if it uses Hidden-SSID.

¹ F-Link V2: Selection field for the Wi-Fi channel does not exists.



12. Press button "Apply". -> Please wait. The wireless network will be connected.

(The execution of the command may need to be confirmed in the internet web browser)



- 13. Wait until Ready LED of the F-Link is switched on again.
- 14. When F-Link is able to build-up a wireless connection to your access point, the connection over the LAN port (cable) will be closed. The F-Link configuration page can therefore not be opened again by default IP 192.168.1.200 and a direct LAN cable connection.

If the configuration page was reloaded in your internet web browser with the default IP 192.168.1.200 the F-Link has no access to your wireless network.

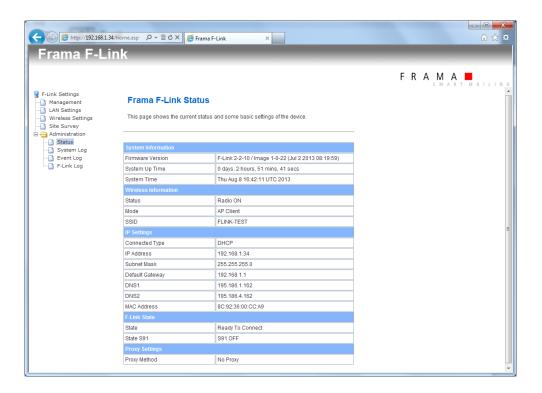
Check the wireless signal strength at the F-Link position and the wireless settings of F-Link (SSID, pass phrase, key, channel, ...)

- 15. Disconnect direct LAN network cable between F-Link and PC.
- 16. Set the LAN network settings of the PC back to the previous values.
- 17. Execute business processes on the franking system.

Access to F-Link configuration page under wireless operation mode:

- 1. The F-Link configuration page can now only opened by an access via wireless network and the assigned DHCP IP address for F-Link. For identifying the DHCP IP address of the F-Link see chapter 4.1.3.
- 2. Open internet web browser on a PC that is also connected to the same wireless network as the F-Link. Enter the DHCP IP address of F-Link into the address field of the internet web browser.

3. Open configuration page Administration – Status. Check if F-Link gets the correct IP settings from the wireless network.



- 4. Check the F-Link status. Must be "Ready To Connect".
- 5. Execute business processes on the franking system.

Don't enable the wireless function, when F-Link is connected to a LAN network with DHCP server!



Connect the F-Link device directly to a PC for configuring it for wireless operation.

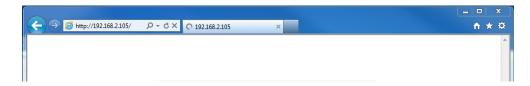
Note!

After enabling the wireless function the F-Link still uses the default IP 192.168.1.200 on the LAN connection as long as the wireless network connection was not successfully builds up.

5 Configuration Page Features

5.1 Login

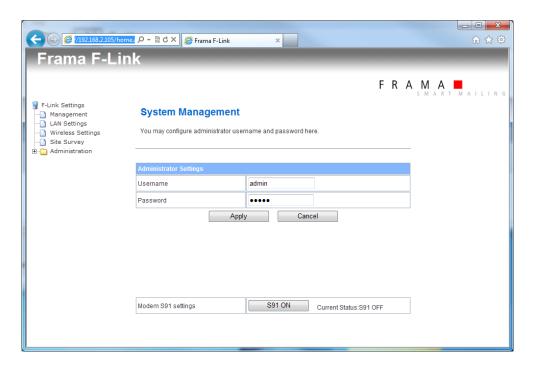
Enter the IP address of the F-Link into the address field of the internet web browser.



Enter the username and the password into the login window: (Default username: "admin" and password: "admin")



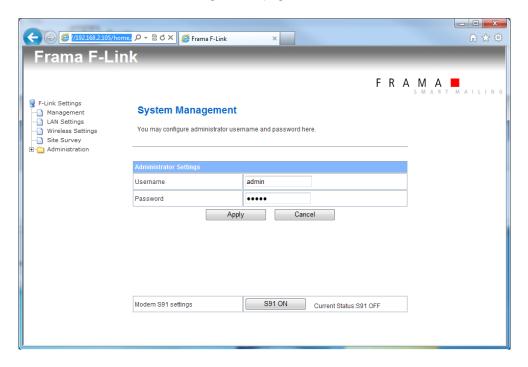
Press button OK.



Now you are on the home screen. Over the configuration page you can change the settings of the F-Link, display the actual status and the logged data. Use the menu on the left side to navigate. All changes on the configuration page are stored only when you press the "Apply" button below the settings fields.

5.2 Configuration Page Management

On the configuration page Management you can set your own administrator username and password for the access to the F-Link configuration page.



5.2.1 Modem S91 setting (only applicable to F-Link a/b versions)

The modem S91 setting changes the attenuation of the internal modem in F-Link. This option is only relevant for Frama franking systems of the Matrix F series range. The attenuation can be switched between two values:

S91 OFF default attenuation S91 ON higher attenuation

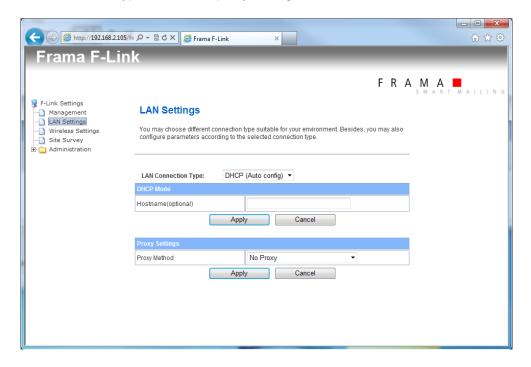
The higher attenuation / S91 ON is only recommended if you experience problems with the modem communication between F-Link and the Matrix F series franking system (frequently no answer / no connection build up or connection lost during communication).

The first pressing of the S91 ON button after a reset of F-Link initializes this feature internally only. Press the S91 ON button a second time to change the value. The current status shows the actually state of the modem S91 setting.

If the modem S91 setting was changed try multiple connections before estimate the effect. In special cases also a decreasing of the modem speed on the Matrix F series franking system might also help to get a more stable communication performance.

5.3 Configuration Page LAN Settings

On the configuration page LAN Settings you can change the LAN connection type, set values for the LAN connection type and set the proxy settings for F-Link.



The usage of the connection type is descibed in chapter 2.1.

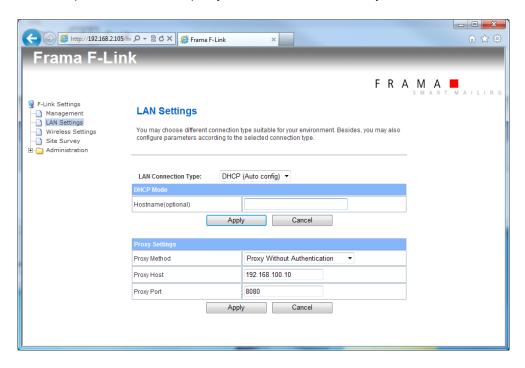
5.3.1 DHCP hostname

An optional hostname for the F-Link can be set on DHCP mode into the field "Hostname", e.g. "FLINK".

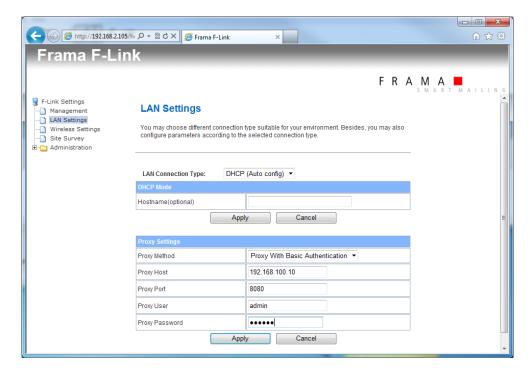


5.4 Proxy Settings

When F-Link is forced to use a proxy server without authentication then set the proxy method to "Proxy Without Authentication". Enter the IP address of the proxy server into the field "Proxy Host". Enter the port number of the proxy server into the field "Proxy Port".



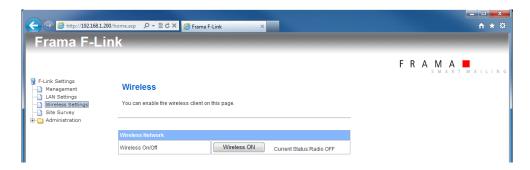
When F-Link is forced to use a proxy server with authentication then set the proxy method to "Proxy With Basic Authentication". Enter the IP address of the proxy server into the field "Proxy Host". Enter the port number of the proxy server into the field "Proxy Port". Enter the proxy username into the field "Proxy User" and the proxy user password into the field "Proxy Password".



Consider also chapter 4.4.

5.5 Configuration Page Wireless Settings

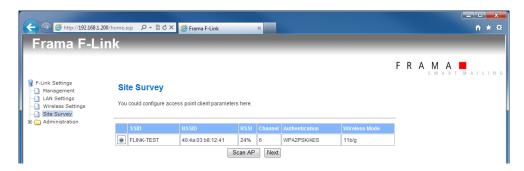
Enable or disable the wireless function over the configuration page Wireless Settings.



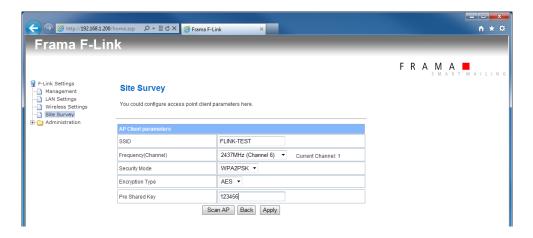
5.6 Configuration Page Site Survey

When the wireless function is enabled you may scan for access points using the configuration page Site Survey.

The value RRSI show the signal level of the wireless network. If this value is too low, no stable network connection is possible. Try to find a better position for F-Link where the signal level is higher.



When you have selected a wireless network and have pressed the button Next the additional configuration page for the wireless network will be shown.



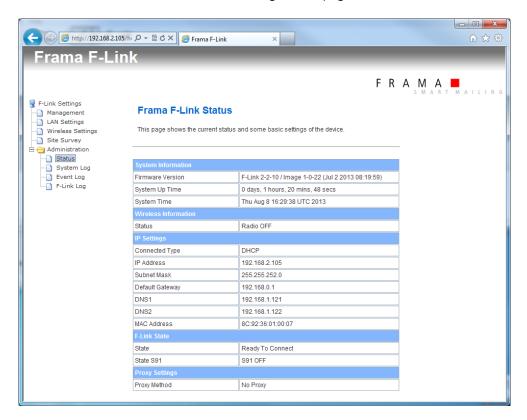
Select the right channel², security mode and encryption type for your wireless network. Normally you must only enter the pass phrase or security key for your wireless network here. The other settings should be left to the automatically detected values.

-

² F-Link V2: Selection field for the Wi-Fi channel does not exists.

5.7 Configuration Page Administration – Status

The status of F-Link is showed on the configuration page Administration – Status³.

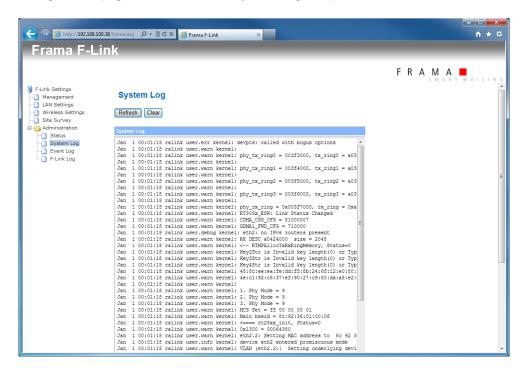


F-Link state:	Description:
Ready To Connect	F-Link is in operation. A connection to the FO2 backend system can be started.
	cu.
Connected	F-Link is connected to the FO2 backend system and transfers data.
	·
Ready No Internet	F-Link is in operation, but has no connection to the internet via the wired or wireless network.
HTTP Error	F-Link is in operation, but a HTTP error has occurred when F-Link connected
	to the FO2 backend system.

³ The firmware version name of F-Link V2 (2nd hardware generation) starts with "F-Link2". At all other device naming on the website the F-Link version (hardware generation) is not distinguished.

5.8 Configuration Page Administration – System Log

The F-Link writes a log file of the system (Linux). You can display the log entries when you open the configuration page Administration – System Log and press the button Refresh.



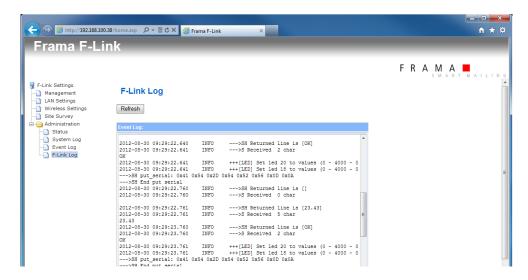
5.9 Configuration Page Administration - Event Log

The F-Link writes an event log file. You can display the log entries when you open the configuration page Administration – Event Log and press the button Refresh. There you can see the events and results of business processes of the franking system.



5.10 Configuration Page Administration – F-Link Log

The F-Link writes an operation log file. You can display the log entries when you open the configuration page Administration – F-Link Log and press the button Refresh.



6 Troubleshooting

6.1 No access to the configuration pages

When the access to the configuration pages is not possible then different reasons are possible.

1. Network errors

Are you sure that you use the right IP address for the F-Link?

Try a ping to the IP address of the F-Link from the console of a PC in the same network (if ping is working in your network). When you get no answer from the F-Link then check your network.

2. Proxy configuration errors

It is possible that you use a Proxy server in your network for internet browsing. You must configure the proxy settings of your PC that the local IP address of F-Link is bypassed / excluded by the proxy server.

3. Login fails / lost login values

If you don't know the username and password for the F-Link configuration page access anymore, you can reset the F-Link. After the reset the administrator username and password are on the default values username: "admin" and password: "admin".

4. No access by default IP 192.168.1.200

If the F-Link was used before for connections with LAN connection type DHCP or STATIC the access over the default IP address 192.168.1.200 is not possible. Perform a reset of F-Link without a connected network cable (see chapter 4.5). The default IP 192.168.1.200 is now active again for a configuration by a direct LAN cable connection.

5. Configuration page disappears after set to WI-FI ON
The F-Link possibly has automatically connected to an open Access Point. Remove the antenna, reset the device and repeat the WI-FI configuration.

6.2 Old configuration page values

Internet web browsers store data from web pages for offline mode and caches data to show web pages faster. It is possible that not the actual data are displayed on a configuration page of F-Link. You can clear the offline and cached data of your browser normally over a menu entry of the browser. Restart the browser after you clear the offline and cached data and try again.

6.3 F-Link LED status

The different statuses of the LED's from F-Link are described in the installation manual [F-Link Installation Manual, Order-Nr: 1018863].

6.4 No access to Frama FO2 backend server

For a successful connection to the FramaOnline2, the following network configurations are required:

Open firewall ports:

53 DNS

443 HTTPS

Allow access to URL fo2.frama.com

The IP address of the URL fo2.frama.com can be found either by using the ping command "ping fo2.frama.com" in a command line window (if ping is allowed in your network) or by a DNS lookup service in the internet.

Proxy servers using SSL-interception require a specific rule in order to allow transparent communication (franking system via F-Link to FramaOnline2) via https port 443.

The specific rule grants correct identification of FramaOnline2 (https certificate) for the franking system.

6.5 Reset the configuration

The configuration of the F-Link can be reset. Disconnect the LAN cable from F-Link. Press the RESET switch at the back of the device for a minimum of 10 seconds. After this process the F-Link restores the factory configuration (IP192.168.1.200) and all previous configuration settings will be lost. After the reset, the F-Link reboots and is ready to be reconfigured when the Ready LED is on again.

6.6 Connecting F-Link to another franking system

Interchange of F-Link from one to another Franking System requires the following points:

- same language
- same configuration in network
- same Franking System type

Ignoring this may lead to wrong configuration settings and prevent the franking system from successful connection to FramaOnline2. In such case we recommend to reset the F-Link.

6.7 Supported special characters

The F-Link does not support all kind of characters as values in the input fields on the configuration page.

The following special characters can be used in all input fields:

6.8 Status Messages

In case of operation errors the F-Link shows a status message on the display of the franking system.

Status	Message on franking system	Description / Troubleshooting
	message on naming system	2 compact, measuresting
F001	No WAN (internet) available. Check network or settings using a web browser on {ipaddress}	F-Link is connected to the network and gets a valid IP address in the network. F-Link is unable to access the internet and the FO2 backend server.
	Refer to manual for further info.	Please check your internet access with another device in the same network and check the network settings of F- Link over the configuration page.
F002	No DHCP IP address assigned.	The network configuration of F-Link is invalid. F-Link
1002	Change network settings using a browser on {ipaddress} Refer to manual for further info.	changes the settings back to the default values.
		Please configure the F-Link network settings properly. To set the configuration you can access to the F-Link configuration page over the default IP address 192.168.1.200.
F003	No WAN (internet) available.	F-Link cannot open the network communication. Please
	Check local network /-settings. Please refer to manual for further info.	configure the F-Link network settings properly, check the cable connection and try to connect to your network with another device in the same network.
F004	Frama Online 2 (fo 2 frama com)	The FO2 backend conver cannot handle the request of F
F004	FramaOnline2 (fo2.frama.com) is temporarily unavailable. Please try again later. Please refer to manual for	The FO2 backend server cannot handle the request of F-Link at the moment. The response on the request is HTTP error code 503 – Service unavailable.
	further information.	Try again later. This message is triggered when the FO2 backend server is busy or is shut down for maintenance. If this error stays on for longer time call the FramaOnline2 hotline.
F005	FramaOnline2 (fo2.frama.com)	The request of F-Link was responded with a HTTP error
	is temporarily unavailable. Please try again later. Please refer to manual for further information.	code (more codes are possible). The HTTP error code can be found in the event log of F-Link.
		Try again later. This message is triggered when the FO2
		backend server is busy or is shut down for maintenance. If this error stays on for longer time call the FramaOnline2 hotline.
F006	FramaOnline2 (fo2.frama.com) is temporarily unavailable. Please try again later. Please refer to manual for further information.	F-Link gets no answer from the FO2 backend server on its
		request. Possible cause is a loss of the network connection while a connection to the FO2 backend server was running.
		Try again later. If this error stays on for longer time call the FramaOnline2 hotline.

F007	FramaOnline2 (fo2.frama.com) is temporarily unavailable. Please try again later. Please refer to manual for further information.	F-Link is connected to the network and has got a valid IP from the network. F-Link has access to the internet. But F-Link has no access to the FO2 backend server. Try again later. If this error stays on for longer time call the FramaOnline2 hotline.
F008	F-Link Status: F008 F-Link updates the firmware! DO NOT SWITCH OFF F-Link! Wait until READY LED is switched on again and retry!	F-Link updates its firmware instead of processing your operation (inspection, credit loading). After the complete download of the firmware from the FO2 backend server the installation of the firmware is running and this message is displayed on the franking system. Do not switch of the F-Link is this state. F-Link reboots automatically to startup with the new firmware. Wait until the Ready LED is light up stable again. Then please repeat your operation. F-Link checks for a firmware upgrade on each call to the FO2 backend server.
		1 OZ BUCKCHU SCIVCI.
F009	No answer from DHCP server Change F-Link DHCP settings on {ipaddress} Please refer to manual for further information.	F-Link is configured to get a dynamically IP address from a DHCP server in your network. But F-Link gets no dynamically IP address from a DHCP server. Please configure the F-Link network settings properly. To set the configuration you may access the F-Link configuration pages over the displayed IP address. Please check the operation of the DHCP server in your network.
F010	Proxy error. Change F-Link Proxy settings on {ipaddress} or update Proxy Server. Refer to manual for further info.	The request of F-link is responded with a HTTP error code (more codes are possible) of local proxy server. The HTTP error code can be found in the event log of F-Link. Please configure the F-Link proxy settings properly. To set the configuration you may access the F-Link configuration pages over the displayed IP address. Possible cause for HTTP error code 305 – Use Proxy: The internet is only accessible over the local proxy server.
		Possible cause for HTTP error code 407 – Proxy Authentication Required: The username and password for access to the local proxy server is wrong. Possible cause for HTTP error code 502 – Bad Gateway: The proxy server cannot communicate with the FO2 backend server.

F011	F-Link Status: F011 Currently no WAN (internet). Check local DNS, local firewall and local Proxy-Server.	F-Link is connected to the network and has got a valid IP address in the network. F-Link had access to the internet and to the FO2 backend server in the past. Currently, F-Link has no access to the internet and to the FO2 backend server.
	Refer to manual for further info.	Please check your internet access with another device in the same network and try again.

7 Appendix

Addressing Mode

7.1 IP Configuration Questionnaire

This questionnaire may be used to get the information from your IT personnel.

	DHCP		
	Static IP Address		
	0	IP-Address: · ·	Format: nnn.nnn.nnn, nnn <= 255 Example: 192.168.0.36
	0	Subnet-Mask:	Format: nnn.nnn.nnn, nnn <= 255 Example: 255.255.252.0
	0	Default Gateway:	Format: nnn.nnn.nnn, nnn <= 255 Example: 192.168.2.1
	0	DNS-Server:	Format: nnn.nnn.nnn, nnn <= 255 Example: 192.168.175.25
Proxy Server			
	No local Proxy required.		
	A local Proxy is required to be used		
	0	Proxy IP-Address:	Format: nnn.nnn.nnn, nnn <= 255 Example: 192.168.172.38
	0	Port Number:	Format: nnnnn <= 65535 Example: 8080
Proxy Server Authentication Mode (only applicable if proxy server must be used)			
	No authentication required on proxy server		
	Basic authentication is required for proxy server		
	0	Username:	
	0	Password:	

WLAN

No WLA	AN	
WLAN		
0	SSID:	
0	Security Mode:	□ Open
		☐ Shared
		☐ WPAPSK
		□ WPA2PSK
0	Encryption Type:	□ AES
		☐ TKIP
0	Pre-Shared Key:	

Basic authentication



Note!

Make sure that the IP address values and related configurations respect the syntax and semantic rules. Your IT personnel will be able to give you more information on this topic.

Frama AG CH-3438 Lauperswil Switzerland F-Link R02.00/10.17