Eelectron Certificate Loader Software

USER MANUAL

Version: **1.0**

Date: **05/09/2023**

Contents

1. Purpose of the manual 3
2. Installation requirements 3
3. Download application 3
4. Connect the device 3
Connection 4
Certificate management 4
Topic list 5
End user license agreement (EULA) © 2023 6

VERSION	DATE	CHANGES
1.0	05/09/2023	-

1. Purpose of the manual

“Eelectron Certificate Loader” by Eelectron SpA is a software created for the purpose of uploading and updating certificates (in pem format).

2. Installation requirements

To install and use the application, it is necessary WINDOWS® operating system (WINDOWS 7 or higher) and Microsoft© .NET Framework 4.6.1 or higher ; this one is already present if used on a PC with ETS5 or ETS6 installed.

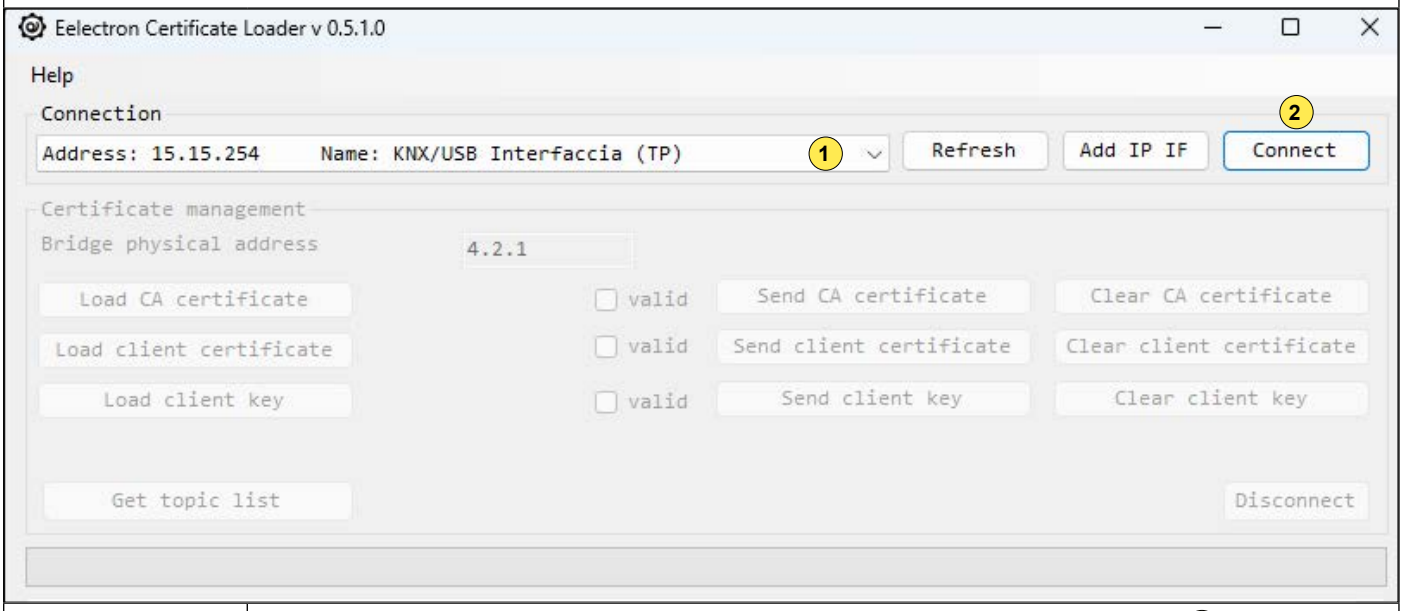
3. Download application

Download the application from site www.eelectron.com and save it on the PC. The application does not require installation, it is enough to extract the files in a PC directory.

4. Connect the device

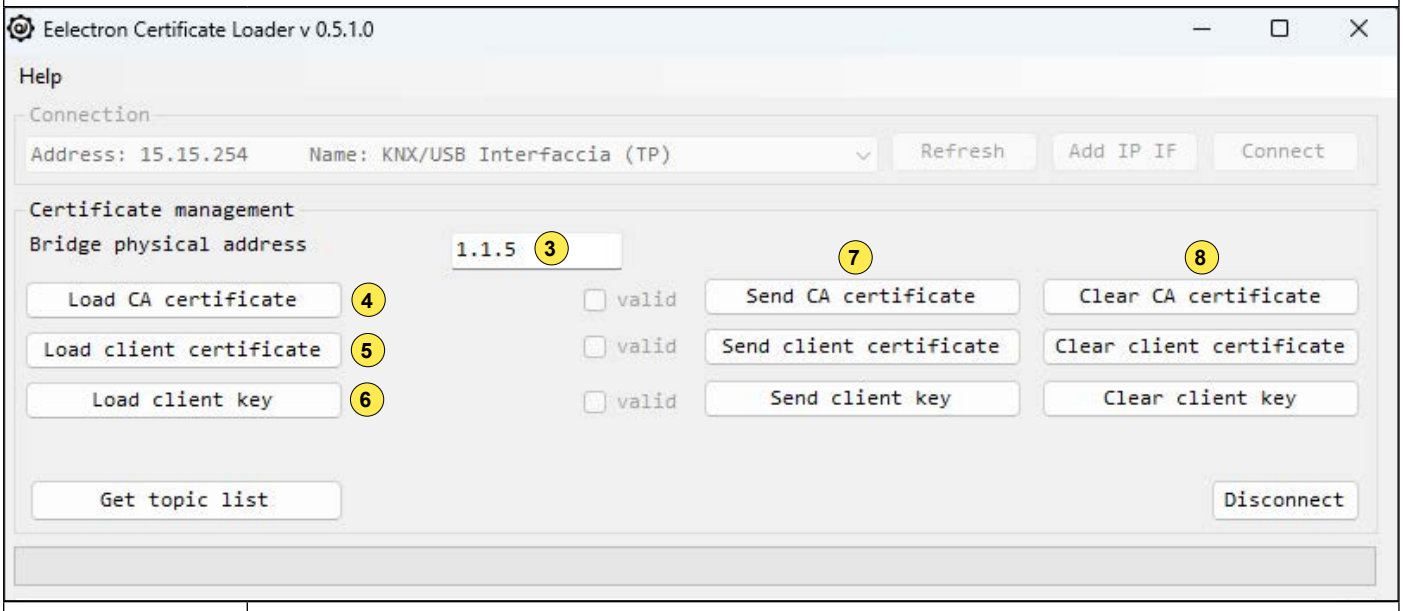
- Power on the device, the bridge must be connected both to the bus KNX;
- Connect the PC to a KNX interface, then launch the application by clicking on the executable file eCertificateLoader.exe.
- Verify terms and conditions of the manufacturer before using the software by clicking on “Help - About”.
- Use the drop down list to select the KNX interface and click on ‘Connect’ to start the configuration.
- Click on “Refresh” to update the list of available connections.

Connection



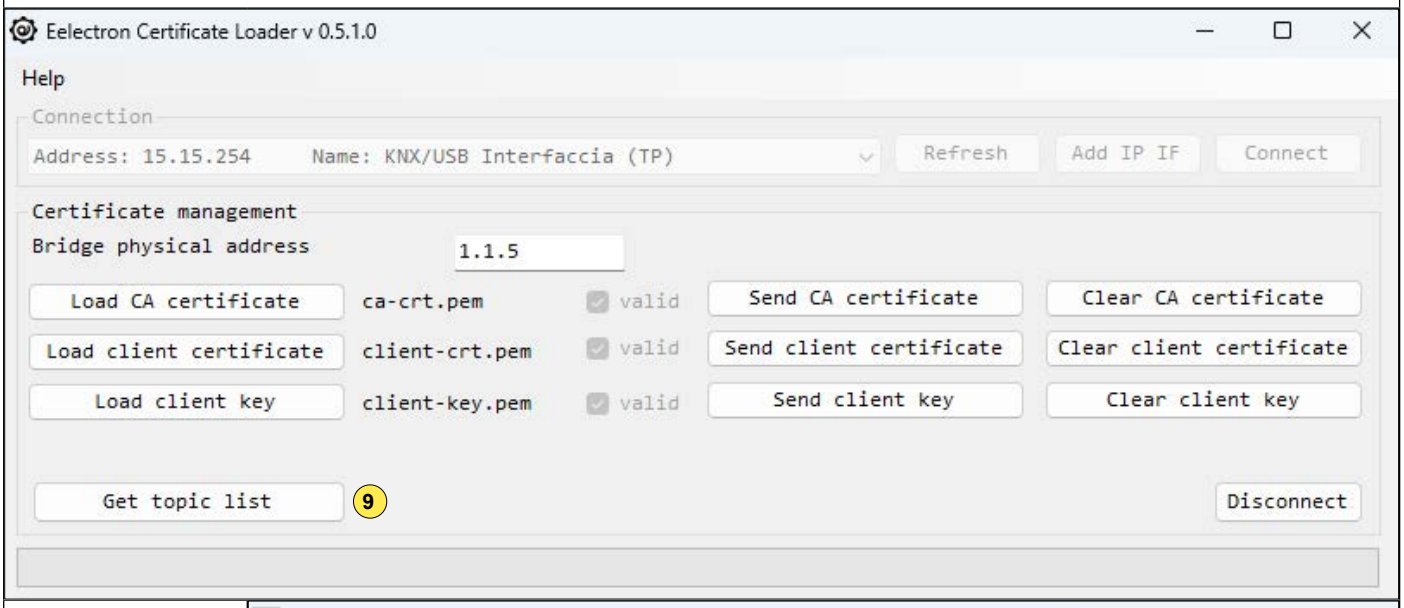
1	As the first step, select from the dropdown menu the IP interface and click **"connect"** (2) it will available the section of certificate management described in the next screenshot.

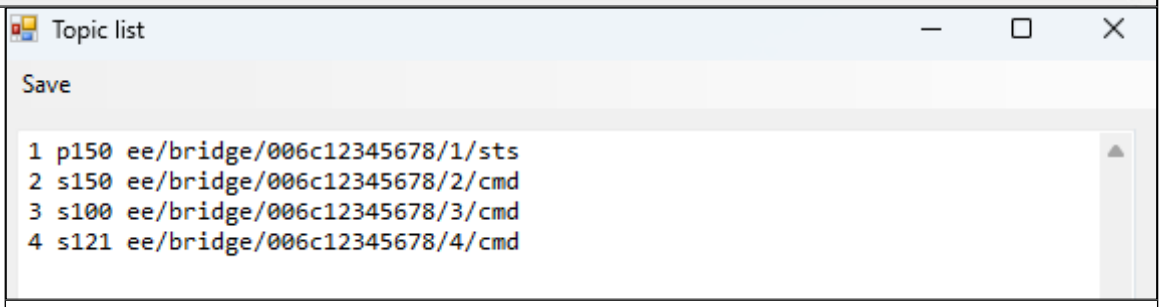
Certificate management



3	As the second step, insert the phisical address of the device.
4,5,6	With this buttons is possible to load 3 types of certificates, in particular: • CA certificate: it guarantees the identity of the server (broker) • client certificate: it guarantees the identity of the client (the device) • client key: it guarantees the safe transmission of data
7	With this buttons it's possible to upload a certificate to the bridge.
8	With this buttons it's possible to clear the certificate uploaded to the bridge.

Topic list





9

With this button it's possible to get the list of all the topics present on the device (bridge) and save it in csv format.
Each topic is identified by a code as, for example **"1 p150"** wich is composed by:

1 = is the index of the topic;

p = it indicates the type of the topic: publish (p) or subscribe (s);

1 = QoS (Quality of Services) of the MQTT channel (0=0; 1=1, 2=2);

5 = it's the DPT size:

- 1 bit = 0
- 4 bit = :
- 1 byte signed = 1
- 1 byte unsigned = 2
- 2 bytes signed = 3
- 2 bytes unsigned = 4
- 2 bytes float = 5
- 3 bytes RGB = 9
- 4 bytes signed = 6
- 4 bytes unsigned = 7
- 4 bytes float = 8

0 = it's the DPT type associated to the DPT size.

DPT type for 1 byte unsigned (0 = value 0-255, 1 = value 0-100%, 2 = angle, 3 = HVAC mode), in the other cases the value is 0.

End user license agreement (EULA) © 2023

By accepting this agreement or by installing “Eelectron Certificate Loader” or other software offered by or on behalf of Eelectron SpA (the “Software”) you agree to the following terms.

LICENSE
Subject to your compliance with these terms and conditions, Eelectron SpA grants you a royalty-free, non-exclusive, non-transferable license to use the Software. Eelectron SpA reserves all rights in the Software not expressly granted to you here.

RESTRICTIONS
The source code, design, and structure of the Software are trade secrets. You will not disassemble, decompile, or reverse engineer it, in whole or in part, except to the extent expressly permitted by law, or distribute it. You will not use the Software for illegal purposes. You will comply with all export laws. The Software is licensed, not sold.

DISCLAIMER OF WARRANTY
Eelectron SpA disclaims any responsibility for harm resulting from the Software or any software or content downloaded using the Software, whether or not Eelectron SpA approved such software or content. Eelectron SpA approval does not guarantee that software or content from an approved partner will function, sound, or appear as offered or hoped, or be complete, accurate, or free from bugs, errors, or other harmful content. No advice or information, whether oral or written, obtained from Eelectron SpA or elsewhere will create any warranty or condition not expressly stated in this agreement. Some jurisdictions do not allow certain limitations on implied warranties, so the above limitation may not apply to you to its full extent.
Damages or malfunctions that may result from the use of this Software are not the responsibility of Eelectron Spa but remain exclusive to the user’s responsibility.
The Software must be used by an authorized installer.
For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
The applicable safety and accident prevention regulations must be observed.

THIS SOFTWARE AND THE ACCOMPANYING FILES ARE LICENCED “AS IS” AND WITHOUT WARRANTIES AS TO PERFORMANCE OR MERCHANTABILITY OR ANY OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED. THIS DISCLAIMER CONCERNS ALL FILES GENERATED AND EDITED BY “Eelectron Certificate Loader” AS WELL.

CONTACT
If you have any questions, contact us at info@eelectron.com