Cardlink

Ethernet Cardshare Client

Manual

Software version 1.00

Introduction

Thank you for buying your Cardlink! It is the solution for making use of your smartcard on multiple recievers. Please note that CARDLINK IS INTENDED FOR PERSONAL IN-HOUSE USE ONLY AND SHOULD NOT BE USED WHEN SHARING YOUR CARD IS PREHIBITED BY YOUR CARD PROVDER!!!

This manual will guide you through the steps in order to configure the Cardlink and explains its settings. As the software in your Cardlink can be updated, it may be, that this manual does not match the software in your Cardlink. Please visit www.cardlink.nl regularly, in order to download the latest versions of both the manual and the application software.

www.cardlink.nl

Cardlink: the Card

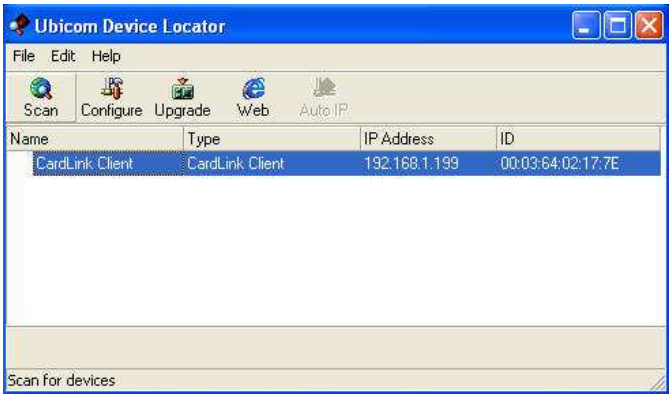
Cardlink has got contacts to connect to your cardreader on two sides, so you can insert your cardlink using either side up. The network and power connector are situated on one side of the Cardlink and should the the cables be a problem you can easily turn the card-link upside-down. 4 LEDS will give you status-info on the cardlink and it's connection to the cardserver.

The network connection on your cardlink is a standard 10Mbit ethernet connection and can be connected to your hub or routerwith a standard 1:1 networkcable (not included with cardlink)

The powersupply that comes included with your cardlink should be set to 6volt. Connect the networkcable from your hub or sever and than connect power to the cardlink. The first statuslight should turn green (link). If nothing happens, please check the polarity of the powersupply: the outher shell of the connector should be ground (-) and the innerconnector should be (+)

Cardlink: Software

If your local network has DHCP enabled, your cardlink will recieve all network configuration settings auto-matically. To resolve this ip-address, you can download the cardlink Locator software, on our website for free: You can find it atwww.cardlink.nl and can be used on any windows pc in your home-network and it will find any cardlink in your house. When found, you can select it, and click WEB to start a new browserscreen and configuration can commence. You can also type the IP-address in any computer in your network

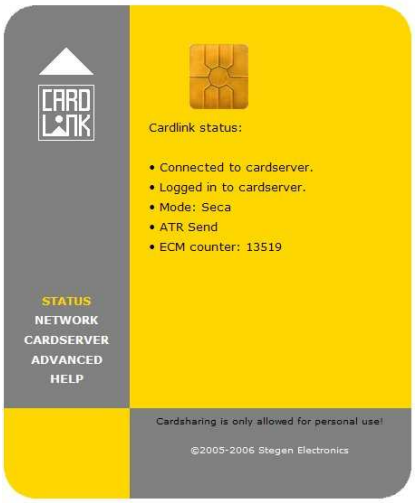


Configuration

STATUS

This is a screenshot of the webinterface.
The status page gives you info on the connection with the cardserver, the mode it is running and the number of data-packages that have been requested by your server also known as ECM's. If the Cardlink is net yet in a cardreader, the last line you will see is the Mode.

The status screen gives you valuable information about your cardlinks functionality and connection to your server. But first we will have make the connection to the network.

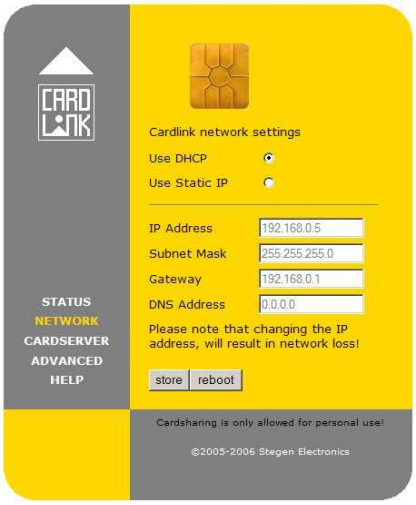


NETWORK

The network page enables you to set a fixed ip-address rather than a DHCP defined address. Just select "Use static IP" and click STORE.

Now you can modify the cardlinks ip-address at your convenience. Please bear in mind that after changing the ip-address of the cardlink and rebooting, you will need to enter a new ip-address in your browser!

By factory default cardlink is set to DHCP.
With this setting, your modem/router/networkserver will provide cardlink with the proper ip-setting to work within your network



CARDSERVER

You can enter the NewcamD/NewCS cardserver data, that you will find in your cardserver.
Enter your cardservers IP-address in the Cardserver Host/IP field. If your homenetwork supports DNS, you can also enter a HTTP address here. In the Cardserver Port field, enter the port your server runs.

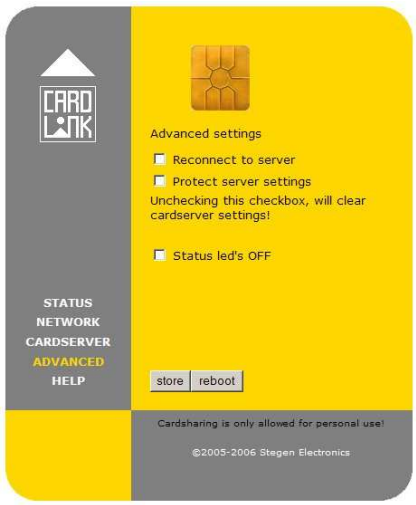
Newcamd/NewCS cardservers force you to use a user-name and password. Because communication between the cardlink and your server is encrypted, you are requested to enter the same encryptionkey that is in your server.

Click store and reboot to save your setting.
After the reboot (lights will go out) your cardlink will attempt to connect to your server.

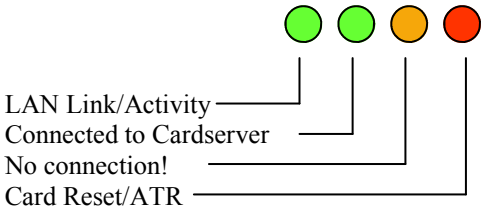
ADVANCED

On this page you may set the following options:

- Reconnect to server: When checked Cardlink will try to reconnect to your server every couple of seconds in case the connection to your server gets broken due to heavey trafic (e.g. downloading) or other issues.
- Protect server settings: Check to protect the read-out or change of your cardserver data. After unchecking, cardserver data is erased!!
- Status leds off: when checked LED's will go dark, after connection was made with your cardserver.



StatusLEDs



If configuration of cardlink and serversettings are correct and cardserver is working properly, first 2 LED's will light. If onlythe first green LED and the Orange LED are lid, cardlink was unable to connect to your cardserver. Check the status-screen of Carlink to see what's wrong.

2 Green LED's will show that connection is active and cardlink is logged in on the server. You can verify the status on the Status page.

Now you are ready to insert Cardlink in your clients card-reader. The red LED will flash shortly indicating a card-reset Some flashing of the activity LED indicates the card sends and recieves data from your server. Now your cardlink works identical to the card in your cardserver.

Specifications

Hardware:

- ISO 7816 double sided smartcard interface
- 120 Mhz RISC CPU
- 576Kb Flash Rom (64+512)
- Status Led’s
- RJ45 Ethernet connector (10Base-T)

Software:

- Card share protocol: NewcamD / NewCS
- Card emulation: Seca/Mediaguard(r) 1/2, Irdeto(r) 1/2 (beta) (Viaccess(r)/Conax(r) soon to be released)
- Security: 3DES/MD5 encryption
- Build-in web-interface
- Software upgradeable, check www.cardlink.nl