



## **T5 lpc user manual**

1.0 - 2011 Number Five Software©

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# 1 Introduction



**T5 lpc** is a loyalty and points collection system that can be used with a thermal printer and rewritable magnetic cards or mifare cards (optionally using a ticket/receipt printers to print redeem coupons).

## 1.1 Features

- Stand alone system, multiple sites, multiple institutions linked by code on card.
- Installation requires power and lan connection only.
- Card design is configured locally via any web browser, accessing the internal configuration pages.
- Once the user data is stored on card, there is no limit of users, convenient for loyalty applications where the goal is to spread the maximum number of cards.
- T5 lpc locally stores a log of all events, allowing further data mining and user centric statistics.
- Each card is automatically formatted on first use, thus skipping any special consumables pre-formatting procedure. Cards can be blocked to a unique vendor.
- Operation has been simplified with operator training convenience in mind. Insert a card on printer... If blank a new member is created, if valid, 3 choices are given to the operator:
  - Load Points
  - Redeem Points
  - Void Card

- Operations are fraud protected by a series of schemas like load limits per day, operator pin code for redeem and others.
- Redeem prints a PLU on card, stating the last redeem date and barcode configurable so its adjustable to most of the POS systems by scanning the redeem PLU code.

## 1.2 T5 Ipc Specifications

T5 ACTA General Specifications	
Size	193 x 90 x 35
Weight	310g
Operation Temperature	-20°C to +65°C (-4°F to +149°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Operation Humidity	5% to 95% relative humidity non-condensing
<b>Power</b>	
MBUS connector	12 – 28 V – 1,25A
PoE	33 - 57V – IEEE 802.3af compliant Class O – Max 12,95W
USB	5V, 500mA
Output Relay (out 1 and out2)	30VDC, 500 mA
Analog Inputs (in1 and in2)	Opto-Isolated
Microprocessor	ARM7
Program Flash Memory	512Kb
Data Memory	4 Mb
Event Storage Capacity	Over 10.000 events
Communications	Ethernet 10Mb DHCP POE MBUS USB 1.1
Keyboard	4 X 4 keys Capacitive keyboard
LCD Display	2 lines x 15 columns back-lighted
Buzzer	Polyphonic
Light Sensor	Opto Hybrid
Motion Sensor	From light sensor balance
Tamper	Internal tamper switch
Temperature Sensor	12 bit resolution accuracy / -55° to 125°
Operating standards	ISO14443A
Approvals/Compliances	RoHS compliant, IP65 compliant

Mifare Reader module	
Manufacturer	Omnikey
Device name	5513 (RDHO-0501N0-03)
Transmit frequency	13.56MHz
Card Read range	Up to 5cm
Supported Standards	ISO14443A

## 2 T5 Ipc Web Management

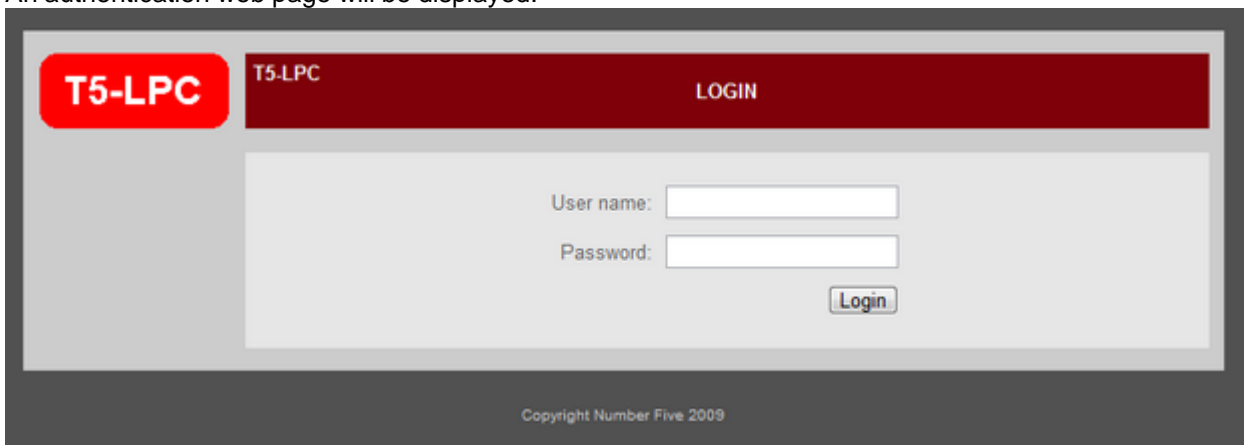
If the network configuration is set to DHCP (default yes), the terminal announces itself on the network at power on, so power it on to obtain an IP address.

We will be using the IP address 192.168.17.121 as a sample.

Use a web browser from your computer on the network and type the T5 Ipc IP address on the address bar.



An authentication web page will be displayed.



**Factory Defaults:** Currently user name is always **admin** and cannot be changed.

To login the first time use:

**User name:** admin

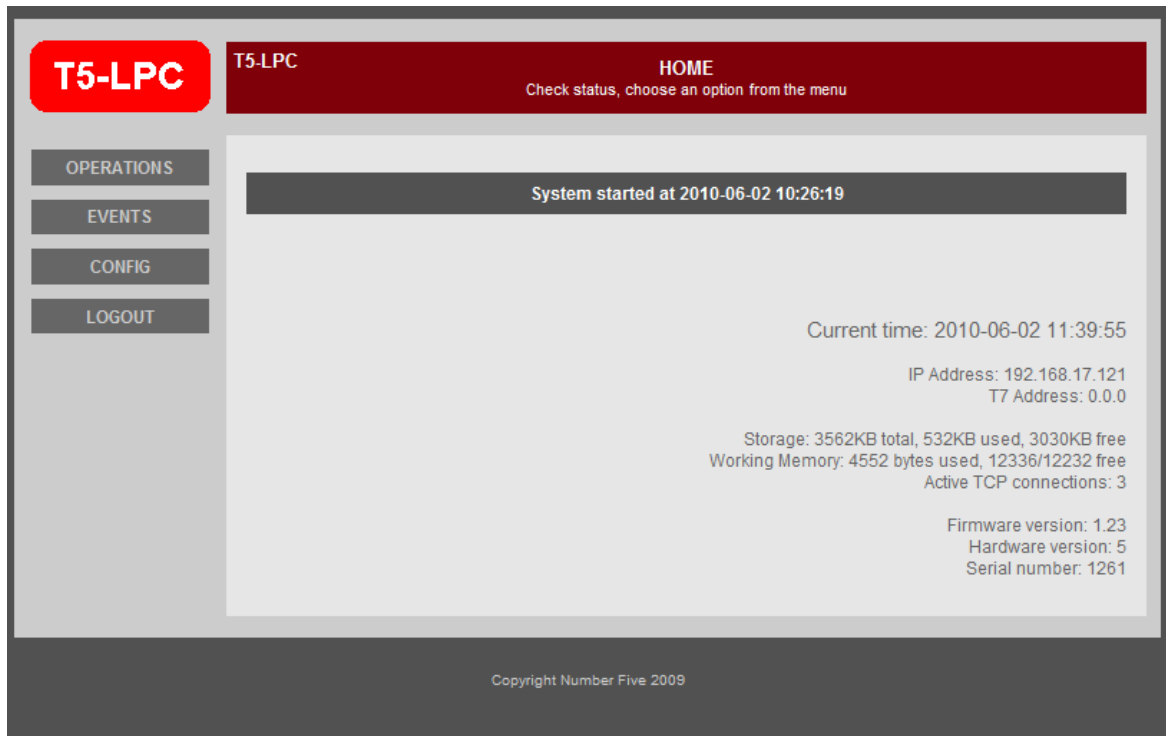
**Password:** <<blank>> (not set)

It's highly recommended to change the password before starting using T5 Ipc for loyalty cards production.

The login default password is empty but can be changed on the **CONFIG** menu. On General tab on the section New Administration Password type the new password (8 characters).

After credentials verification the home page will open.

T5 Ipc web application is quite simple and intuitive. Use the left side menu to access the different operations and configuration pages.



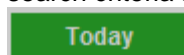
## 2.1 Operations

The **Operations** section lists all operations made on each card.

### Search

In order to assist you finding a specific information time filters are available on the right top corner of the page.

The active filter is colored green (see image below), click the button that better applies to your search criteria and data will automatically be refreshed.

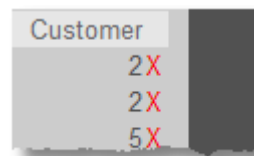


You may list **all** available operations, **today's**, **yesterday's**, **this week** or **this month** operations.

Use the search section if you are looking for a specific occurrence. Search will apply to the following fields; dates, time, description and operations.

### Delete

To delete a specific record use the red "X" in font on the Customer id.



### Purge

You can also specify a date range and purge several operation at the same time. Please make sure you have exported your information to a .csv file first.

Purged data cannot be retrieved.

### Export

It may be helpful to "save" this information so an Export option is available from here. Use the **Export all the events as .CSV file** button to export all the loyalty operations into a csv file. The

file is exported under the default name loyevents.csv and will contain the same information listed: timestamp, type of operation, scheme code, site code, department, value, points and customer id.

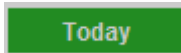
## 2.2 Events

The **Events** section lists all system events occurred on the device.

### Search

In order to assist you finding a specific information time filters are available on the right top corner of the page.

The active filter is colored green (see image below), click the button that better applies to your search criteria and data will automatically be refreshed.

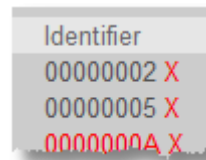


You may list **all** available events, **today's**, **yesterday's**, **this week** or **this month** events.

Use the search section if you are looking for a specific occurrence. Search will apply to the following fields; dates, time, description and operations.

### Delete

To delete a specific record use the red "X" in font on the Customer id.



### Purge

You can also specify a date range and purge several operation at the same time. Please make sure you have exported your information to a .csv file first.

Purged data cannot be retrieved.

### Export

It may be helpful to "save" this information so an Export option is available from here. Use the **Export all the events as .CSV file** button to export all the loyalty operations into a csv file. The file is exported under the default name events.csv and will contain the same information listed: timestamp, description, user, type code, reason code and card identifier.

## 2.3 Configuration

The Configuration option will open a new section with the following options:

General - allows to set the generic configurations.

Comms - allows to setup the communications; for device and printer if it applies.

Loyalty - use this section to specify the loyalty system specifications, schemas, sites allowed and others.

Card Types - allows you to define and configure the different cards used.

Back - returns to the T5 Ipc home page.

## General

**Device name** - defines the device name.

**Buzzer Volume** - adjusts the buzzer sound volume.

**LCD Contrast** - adjusts the LCD.

**Tamper Violation Action** - allows you to setup an action in case of the device tamper is removed, you can choose between Erase Local Data or no action (none).

**New Administration PIN** - sets the new administration PIN. The administration PIN allows you to access the device menu.

**New Administration Password** - sets the new administration password. Administration password is the password that allows you to login into the application.

**Date Format** - allows you to specify the date format that will be used. Choose the format type from the drop down list.

Do not forget to **Save** any changes you have made so they may take effect.

**T5 lpc Date/Time** - sets date/time from your device according to you computer date/time.

**Restart T5 lpc** - restarts the device without having to unplug any power cable.

**Factory Reset** - prompts the user to reset all configurations to the factory default ones. This operation will delete all data and previous configuration done.

Please not that this operation will not affect the Firmware, if you have made a Firmware upgrade to your device this operation will not have any influence with it.

It's strongly recommended to change the factory defaults for PIN and admin password and store the new PIN and password safely.

**To change the Pin and password do:**

Open the web application for T5 lpc (use the browser and type the IP address for the device) and go to **CONFIG** menu. On General tab on the section New Administration PIN type the new PIN. Administration PIN can have up to 4 digits.

## General image

**T5-LPC** T5-LPC **CONFIGURATION**  
Configure general settings for this terminal

GENERAL  
COMMS  
LOYALTY  
CARD TYPES  
< BACK

Device name

Buzzer Volume

LCD Contrast  %

Tamper Violation Action

New Administration PIN  (4 digits maximum)

New Administration Password   (8 characters maximum)

Date Format

T5-LPC Date/Time	Computer Date/Time
2010-06-02	2010-6-2
11:52:34	11:52:30

## Comms

This page allows you to configure the communication for the terminal.

**Static IP definition fields** – use these settings if T5 Ipc is connected on a TCP/IP Network using a static IP address:

**Static IP Address** – define T5 Ipc's IP address

**Static IP Netmask** – define the netmask according to the network requirements

**Static IP Gateway** – define the network gateway to be used

**Use DHCP** – if enabled (set to "Yes"), the static IP settings will be ignored. T5 Ipc will request its IP address to a DHCP server. This will only work if there is a DHCP server reachable on the network

**T7 Address** – Mandatory. The T7 address is the terminal identification (Terminal ID). It is also required for terminal addressing on the T7 Automation System

**External Printer Type** – if using a printer select it here from the available list. You can use a rewritable printer to be used with rewritable magnetic cards or optionally when using Mifare cards use aticket/receipt printers to print redeem coupons - a ticket or document that can be exchanged for a financial discount or rebate when purchasing a product.

When a printer is selected the following options will become available:

**External Baud Rate** – define external printer baud rate (9600, 19200, 38400, 57600)

**External Parity** – define external reader parity (None, Odd, Even)

**External Stop Bits** – define external reader stop bits (1, 1.5, 2)

**External Frame Timeout** – define external Frame Timeout (in ms)

## Comms Image

**T5-LPC** T5-LPC **COMMS CONFIGURATION**  
Configure communications for this terminal

GENERAL  
COMMS  
LOYALTY  
CARD TYPES  
< BACK

Static IP Address   
 Static IP Netmask   
 Static IP Gateway   
 Use DHCP   
 T7 Address   
 External Printer Type   
 External Baud Rate   
 External Parity   
 External Stop Bits   
 External Frame Timeout  ms

SAVE

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## Loyalty

**Schema code and name** - Enter here the card supplier (Schema) code and name, this code is needed if you want to allow other Schemes/Sites to read the same cards, such information is entered on Scheme/Sites Allowed section.

**Site code and name** - Enter here the card supplier Site code and name, this code is needed if you want to allow other Schemes/Sites to read the same cards, such information is entered on Scheme/Sites Allowed section.

**Department code and name** - Enter here the card supplier Department code and name. This code and name are used for reference only and by the Supplier, this information is not used on the Schemes/Sites Allowed section.

**Show Values or Points on LCD** - Choose here if you want to work with values or points, on the terminal LCD these are identified as **P** if working with Points or the Currency Symbol (€, £, \$ for

example) defined at Card Types section if working with Values.

**Print Values or Points on card** - Choose here if you want to work with values or points when printing the card (if applies).

**Redeem by** - Choose here if you want to work with values or points at redeem time.

**PIN Required to redeem (yes/no)** - If set to yes you must enter the PIN defined on Operator PIN section in order to redeem points/values.

**Operator PIN** - Define here the user/operator PIN, this PIN is required for card creation and it may be needed to Redeem. This PIN must be memorized by the operator in order to perform the mentioned operations.

**Maximum number of daily operations** - Define here the maximum number of operations allowed per day on the created cards, empty or zero means unlimited.

**Membership Counter** - Define here the membership start number counter (empty value or zero means manual assignment) and also the total Membership number.

**Schemes/Sites Allowed** - If you have more than one Schema/Site that share the same cards you must enter here the codes you want to allow read the same cards.

**Scheme Code** - Enter here the Scheme code you want to allow.

**Site Code** - Enter here the Site code you want to allow.

## Loyalty Image

**T5-LPC** Loyalty **LOYALTY**  
Configure loyalty operation

GENERAL  
COMMS  
LOYALTY  
CARD TYPES  
< BACK

Scheme code and name 10 SchemaName  
Site code and name 20 SiteName  
Department code and name 0

Show Value on LCD  
Print Value on card  
Redeem by Value  
PIN required to redeem No  
Operator PIN 2468

*User enters PIN code at Card Creation and it may be needed to Redeem: user must memorize the code entered.*

Maximum number of daily operations 0 (empty or zero means no limit)  
Membership counter 0 (empty or zero means manual assignment)

SAVE

**Schemes/Sites Allowed**

Scheme Code Site Code  
Add

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## Card Types

### Card Type

This page allows you to configure the loyalty card types used on the terminal and the options shown will depend on using or not a printer.

**Current Card Types** - List of loyalty card types defined on the terminal.

**Add, Delete and Copy** - Use these buttons to manage the current card types.

### General Options

**Card Type Name** - Enter here the loyalty card name.

**Ratio of value to points** - Enter here the ratio value you want to apply to points (1=1 is the default), this value can be either integer or percentage and it is applied only when points are configured on Loyalty page.

**Inactivity period to invalidate card** - Specify here the number of days before the card becomes invalid after inactivity period. The unit is days and zero means unlimited number

of days.

**Points/Currency Symbol** - Configure here the symbol for Points/Currency, as an example for value: €, £ or \$.

Card Type Image

The screenshot shows the 'CARD TYPES' configuration page in the T5-LPC web management system. The page has a sidebar with navigation options: GENERAL, COMMS, LOYALTY, CARD TYPES, and < BACK. The main content area is titled 'CARD TYPES' and 'Define the loyalty card types'. It displays a list of 'Current card types' with one entry, 'Default'. Below the list are buttons for 'Add', 'Delete', and 'Copy'. The 'Default' card type is expanded to show its 'General' settings: Card type name (Default), Ratio of value to points (1), Inactivity period to invalidate card (0), and Points/Currency symbol. A 'Save' button is located at the bottom right of the settings form.

### Card Type Rewritable Printer

This page allows you to configure the loyalty card types used on the terminal and the options shown will depend of using or not a printer. When you are **using a Ticket/Receipt printer** to print the coupons, using it with Mifare cards, the following options are available:

**Current Card Types** - List of loyalty card types defined on the terminal.

**Add, Delete and Copy** - Use these buttons to manage the current card types.

### General Options

**Card Type Name** - Enter here the loyalty card name.

**Ratio of value to points** - Enter here the ratio value you want to apply to points (1=1 is the default), this value can be either integer or percentage and it is applied only when points are configured on Loyalty page.

**Inactivity period to invalidate card** - Specify here the number of days before the card becomes invalid after inactivity period. The unit is days and zero means unlimited number of days.

**Points/Currency Symbol** - Configure here the symbol for Points/Currency, as an

example for value: €, £ or \$.

### Ticket Text Options

This section allows you to enter the text to be printed using the ticket/receipt printer.

#### Sample Ticket Code:

```
\1BE\1B-1
\1B\1DA\A0\00T5 lpc REDEEM RECEIPT
\1BF\1B-0
You have redeemed XXXX points.

\1Bb421\701234-RR-XXXX\1E
** Thank you **
\1Ba\06\1Bd1
```

**Note:** This is a sample for a TSP650 printer. The commands used are printer dependent.



Ticket/Receipt Sample

## Card Type Rewritable Printer Image

### Card Type Image Printer

This page allows you to configure the loyalty card types used on the terminal and the options shown will depend of using or not a printer. When you are **using a printer** the following options are available:

**Current Card Types** - List of loyalty card types defined on the terminal.

**Add, Delete and Copy** - Use these buttons to manage the current card types.

#### General Options

**Card Type Name** - Enter here the loyalty card name.

**Ratio of value to points** - Enter here the ratio value you want to apply to points (1=1 is the default), this value can be either integer or percentage and it is applied only when points are configured on Loyalty page.

**Inactivity period to invalidate card** - Specify here the number of days before the card becomes invalid after inactivity period. The unit is days and zero means unlimited number of days.

**Redeem PLU code** - Enter here the PLU code for redeem operation. **Price Look-Up Codes**, commonly called PLU codes or PLU numbers are identification numbers affixed to products in stores to make check-out and inventory control easier, faster, and more accurate. PLU codes are used in a variety of situations like retail grocery stores or

supermarkets, where they are keyed into a point of sale system by a cashier or by the customer at a self checkout machine.

**Points/Currency Symbol** - Configure here the symbol for Points/Currency, as an example for value: €, £ or \$.

**Card Orientation** - Choose the card orientation, Portrait or Landscape.

### Rewritable Card Options

**Membership number title, font and position** - Enter here the title for membership number information as well as the font (normal or vertical) and its position on the card.

**Balance title, font and position** - Enter here the title for card balance information as well as the font (normal or vertical) and its position on the card.

**Redeem barcode type and position** - Choose the barcode type - Code 128, Code 39, Interleaved 2 of 5 or Codabar - printed on redeem operation and its position on card.

**Redeem operation date font and position** - Choose the card placement for the redeem date.

**Logo image and position** - Choose the logo you want to use on the card(s) - 1-bit bitmap files only - and its position on the card.

### Promo Logos Options

**Logos placed at (x,y)** - Enter here the promo logos default position on card.

**Promotional logo #1 to #5** - Choose up to 5 different logos - 1-bit bitmap files only - to be printed on card based on the value entered during the loyalty operation.

**Starting from value** - Enter here the starting from value in order to print the correspondent promo logo.

### Promo Messages Options

**Automatic message selection** - Choose here if the promo messages are automatic or not, if automatic then one of the 5 messages will be printed randomly on card, if not then you must choose it during the loyalty operation (card production).

**Promotional message font and position** - Enter here the promotional message you want to receive on terminal display as well as the font (normal or vertical) and its position on the card.

**Promotional message #1 to #5** - Enter here the promotional message(s) you want to attribute during the loyalty operations.

## Card Type Image with Printer

The screenshot shows the 'CARD TYPES' configuration page in the T5-LPC web management system. The page has a dark red header with the 'T5-LPC' logo and the text 'Loyalty CARD TYPES Define the loyalty card types'. A left sidebar contains navigation buttons for 'GENERAL', 'COMMS', 'LOYALTY', 'CARD TYPES', and '< BACK'. The main content area is titled 'Current card types' and features a list with one entry, 'Default'. Below the list are 'Add', 'Delete', and 'Copy' buttons. To the right of the list is a printer preview window showing a card layout with dimensions (54mm, 2.1in; 446px; 0.121mm dot Pitch) and a note: 'Star TCP400 print area, printable area may vary according to coating on the card'. The preview includes a coordinate system with x and y axes ranging from 0 to 319. Below the preview is a section for 'Card type: Default (1)' with tabs for 'General', 'Rewritable Card', 'Promo Logos', and 'Promo Messages'. The 'General' tab is active, showing fields for 'Card type name' (Default), 'Ratio of value to points' (1), 'Inactivity period to invalidate card' (0), 'Redeem PLU code', 'Points/Currency symbol', and 'Card orientation' (Portrait). A 'Save' button is located at the bottom right of the configuration area. The footer of the page reads 'Copyright Number Five 2009'.

**Back**

Returns to the Home page.

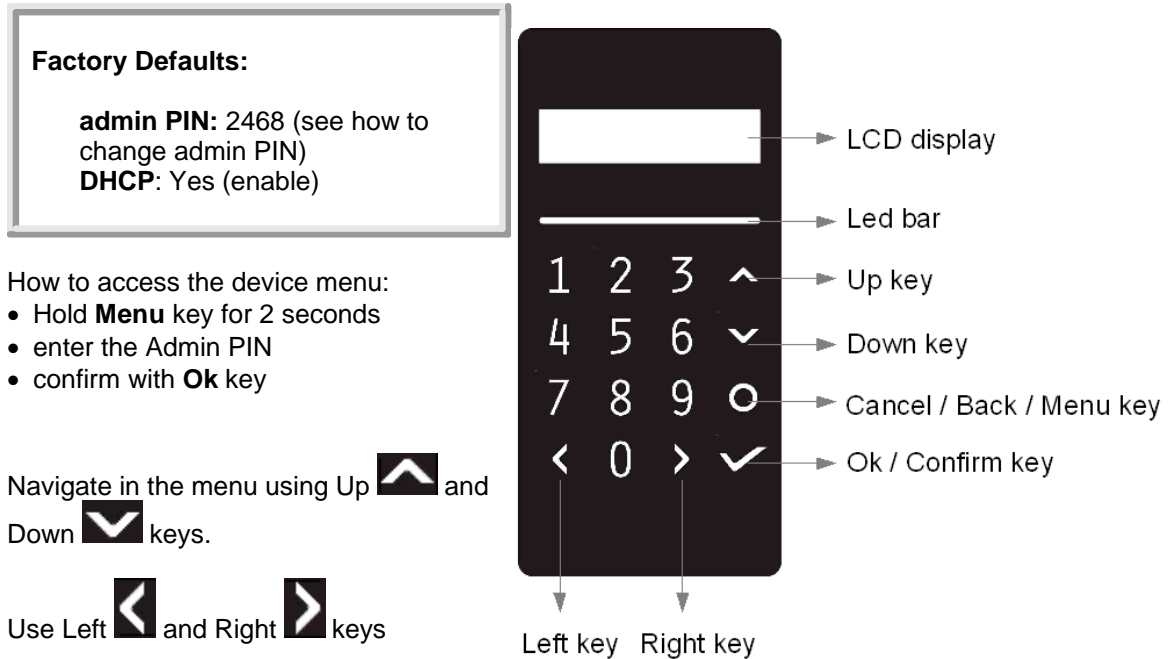
**2.4 Logout**

Closes the current user session.

## 3 Operation Mode

### 3.1 Device Configuration Mode

All device settings are managed using T5 lpc options menu and Keyboard.



**Menu Tree** (Hold Menu key for 2 seconds)

Information	Connectivity	Configuration	Exit
iClass	Use DHCP	LCD Contrast	
Mifare	T7 Address	Set Date	
Fingerprint	Back	Set Time	
Network		Factory Reset	
IP Address		Back	
IP Gateway			
IP Network Mask			
S/N			
Firmware			
Back			

### 3.2 Loyalty Operation Mode with Mifare Cards

Operation Mode will behave differently depending if you are using a printer with rewritable cards or Mifare cards.

This section will describe how to manage the T5 lpc when using Mifare cards.

## Create a new card

When the terminal is idle it displays the Schema code name configured and current date and time:

```
MainOffice
2010-11-02 18:16
```

If we approach a Mifare card the device tries to recognize the card:





```
Reading Card..
```

If the card isn't recognize, you get this message:


```
CARD NOT VALID
IN THIS COMPANY
```

If the card is a new and unassigned card you will have the following message:



```
Create Card?
>Yes No
```

Use Left  and Right  keys to choose between the options. When finish confirm with  (confirm/ok) key.  
Then the user member number will be prompted. The member number will identify the user. Using the keyboard type the number, for example 10 and confirm with the  (confirm/ok) key.

```
Member Number?
[ 10 ]
```

After typing the member number a initial value is requested. Type the initial amount if any and confirm with  (confirm/ok) key.

```
Initial Value?
[ 100 ]
```

The following screen will ask you to select the card type you want to create. If you have more than one card type use the Up  and Down  keys to select the card type you want to use. In this example the card type is the **Default**. Use the confirm key to accept the selected card type.



```
Card Type?  
Default
```

The following step requires you to approach the Mifare card to the device.



```
Card Production  
Present card
```

When the readers detects the card it saves the new information on it.



```
Card Production  
Saving..
```

When finishing it reports the final balance.



```
Done:  
Balance: 100
```

### Load card

Loads points into your cards.

Approach the Mifare card into the T5 ipc device, and the following message will be displayed



```
Reading card..
```

Following our previous example the following screen will appear:



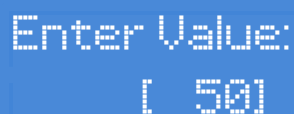
```
M10          100  
<   Load   >
```

**M10** - refers to the user member number

**100** - is the current balance

**Load** - is the selected operation.

Confirm the operation with the Ok key and enter the value to load into the card.



```
Enter Value:  
[ 500
```

The following step requires you to approach the Mifare card to the device.



Card Production  
Present card

When the readers detects the card it saves the new information on it.



Card Production  
Saving..

When finishing it reports the final balance.



Done:  
Balance: 150

### Redeem card

Removes points/value from the current balance to be used.

Approach the Mifare card into the T5 lpc device, and the following message will be displayed



Reading card..

Following our previous example the following screen will appear:



M10 150  
< Load >

**M10** - refers to the user member number

**150** - is the current balance

**Load** - is the selected operation by default.

Use the Up and Down keys to choose the operation you want to use: Redeem



M10 150  
< Redeem >

Confirm the operation with the Ok key and enter the value to redeem from the card.



Enter Value:  
[ 75]

The following step requires you to approach the Mifare card to the device.



Card Production  
Present card

When the readers detects the card it saves the new information on it.



Card Production  
Saving..

When finishing it reports the final balance.



Done:  
Balance: 75

### Void Card

To void a card is to turn it available to be used by any company again. Approach the Mifare card into the T5 lpc device, and the following message will be displayed



Reading card..

Following our previous example the following screen will appear:



M10 75  
< Load >

**M10** - refers to the user member number  
**75** - is the current balance  
**Load** - is the selected operation by default.

Use the Up and Down keys to choose the operation you want to use: Void



M10 75  
< Void >

Confirmation to void the card will be required.



```
Confirm VOID?  
Yes >NO
```

Use the Left and Right keys to choose between the yes and no, When finish click the Confirm key. This will be the sequence of messages.



```
Voiding card..  
Present card..
```



```
Voiding card..  
Saving..
```



```
Voiding card..  
Done..
```

### 3.3 Loyalty Operation Mode with rewritable cards

This section will describe how to manage the T5 lpc when using a rewritable printer with rewritable magnetic cards.

#### Create a new card

When the terminal is idle it displays the Schema code name configured and current date and time:



```
MainOffice  
2010-11-02 18:16
```





Insert the card into the printer and the following screen will appear:




```
Reading card..
```

If the card is a new and unassigned card you will have the following message:



```
Create Card?
>Yes  No
```

Use Left  and Right  keys to choose between the options. When finish confirm with  (confirm/ok) key.  
Then the user member number will be prompted. The member number will identify the user. Using the keyboard type the number, for example 10 and confirm with the  (confirm/ok) key.

```
Member Number?
[ 10 ]
```

After typing the member number a initial value is requested. Type the initial amount if any and confirm with  (confirm/ok) key.

```
Initial Value?
[ 100 ]
```

The following screen will ask you to select the card type you want to create. If you have more than one card type use the Up  and Down  keys to select the card type you want to use. In this example the card type is the **Default**. Use the confirm key to accept the selected card type.

```
Card Type?
Default
```

```
Card Production
```

When finishing it reports the final balance.

```
Done:
Balance: 100
```

## Design a new card layout

Card layouts are design in web management.

Go to CONFIG | CARD TYPES and here you will be able to setup the card design.

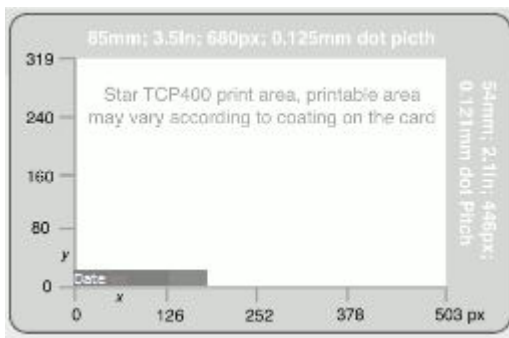
Please make sure the printer you are using is correctly selected on COMMS section External Printer Type. Otherwise the section to setup you card layout will not be available.

1. Click **Add** to create a new card layout from the start. The steps that follows will guide you through a card layout design, this is only a sample.

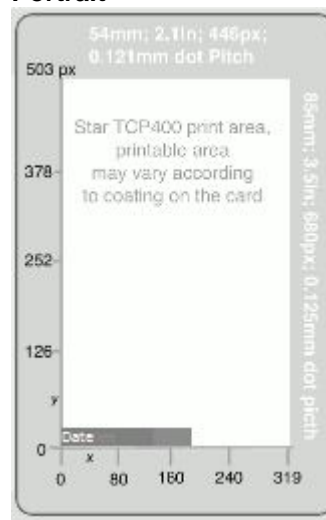
**Note:** If you already have a card layout that you want to use as base use the **Copy** button, this will generate a copy of the selected card.

The card preview will change according the it's configuration, by default the card layout is landscape:

### Landscape



### Portrait



2. Use the **General** tab to specify the generic information for your card layout. Such as;

**Card Type Name** - MyCard

**Ratio of value to points** - 1

**Inactivity period to invalidate card** - 0

**Redeem PLU code** - leave it in blank

**Points/Currency Symbol** - EUR

**Card Orientation** - Portrait

3. On the Rewritable Card tab you will find the options to start distributing the objects on the card.

**Membership number title** - Member No.

**font** - Normal: Standard

**position** - 0 x 100

**Balance title** - Balance:

**font** - Normal: Standard

**position** - 0 x 50

**Redeem barcode type** - code 128 (visible only for redeem operations)

**position** - 430 x 60

**Redeem operation date font** - Normal: Standard (visible only for redeem operations)

**position** - 0 x 0

**Logo image** - free03.bmp (available from T5 lpc clipart)

**position** - 90 x 300

4. Go to the Promo Promo Logos tab to configure the promotion logos, if you want to use any.

**Logos placed at (x,y) - 70 x 30**

**Promotional logo #1** - pig.bmp (available from T5 lpc clipart)

**Starting from value** - 10

**Promotional logo #2** - pig1.bmp (available from T5 lpc clipart)

**Starting from value** - 30

**Promotional logo #3** - pig2.bmp (available from T5 lpc clipart)

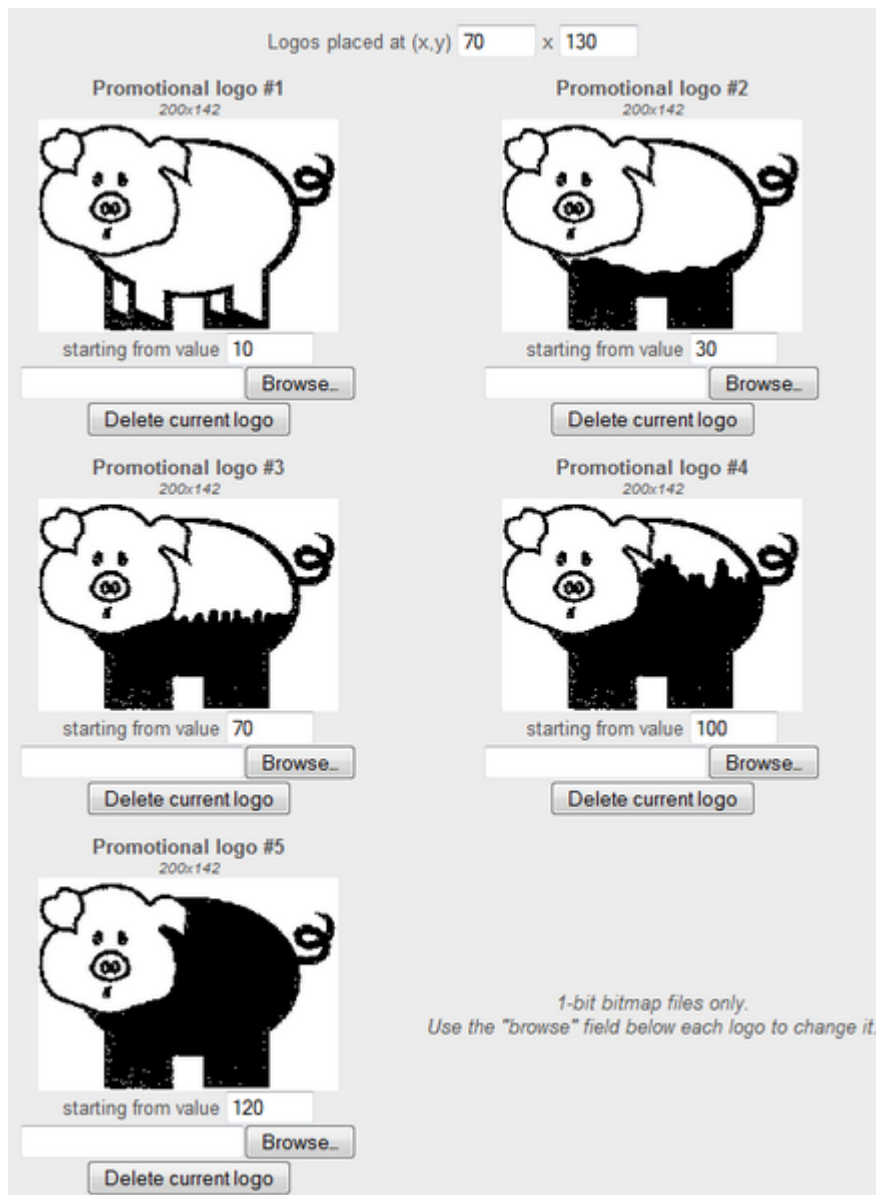
**Starting from value** - 70

**Promotional logo #4** - pig3.bmp (available from T5 lpc clipart)

**Starting from value** - 100

**Promotional logo #5** - pig4.bmp (available from T5 lpc clipart)

**Starting from value** - 120



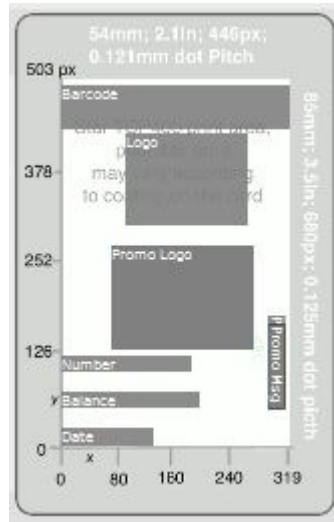
5. Go to the Promo Message tab which allows you to configure the promo message to be printed if any. Here you may also configure if the message will be randomly selected or follow the entry order.

**Automatic message selection** - Yes

**Promotional message font and position** - Vertical: Standard - at 290 x 50

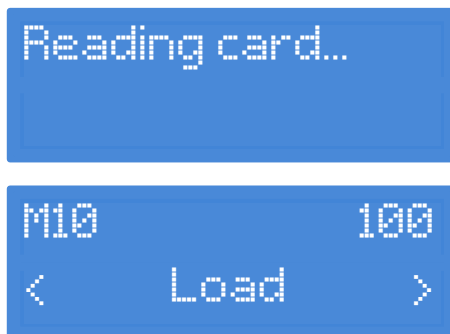
- Promotional message #1** - Free Coffee
- Promotional message #2** - Free Tea
- Promotional message #3** - Free Cake
- Promotional message #4** - Try again next time!
- Promotional message #5** - Try again next time!

The final preview will be similar to this:



## Load card

Insert the card into the printer and the following screen will appear:



- M10** - refers to the user member number
- 100** - is the current balance
- Load** - is the selected operation.

Confirm the operation with the Ok key and enter the value to load into the card. Information will be displayed according to the operation in ongoing.



A blue rectangular screen displaying the text "Card Production" in a white, monospaced font.

When the readers detects the card it saves the new information on it.

A blue rectangular screen displaying the text "Done." on the first line and "Balance: Eur180" on the second line, both in a white, monospaced font.

### Redeem card

Removes points/value from the current balance to be used.  
Insert the card into the printer and the following message will be displayed

A blue rectangular screen displaying the text "Reading card.." in a white, monospaced font.A blue rectangular screen displaying the text "M10" on the left, "150" on the right, and "< Load >" in the center, all in a white, monospaced font.

**M10** - refers to the user member number  
**150** - is the current balance  
**Load** - is the selected operation by default.

Use the Up and Down keys to choose the operation you want to use: Redeem

A blue rectangular screen displaying the text "M10" on the left, "150" on the right, and "< Redeem >" in the center, all in a white, monospaced font.

Confirm the operation with the Ok key and enter the value to redeem from the card.  
Information will be displayed according to the operation in ongoing.

A blue rectangular screen displaying the text "Enter Value:" on the first line and "[ 50]" on the second line, both in a white, monospaced font.A blue rectangular screen displaying the text "Card Production" in a white, monospaced font.



```
Done.  
Balance:Eur100
```

### Void card

To void a card is to turn it available to be used by any company again. Insert the card into the printer and the following message will be displayed:



```
Reading card..
```



```
M10 75  
< Load >
```

**M10** - refers to the user member number  
**75** - is the current balance  
**Load** - is the selected operation by default.

Use the Up and Down keys to choose the operation you want to use: Void



```
M10 75  
< Void >
```

Confirmation to void the card will be required. Use the Left and Right keys to choose between the yes and no, When finish click the Confirm key.



```
Confirm VOID?  
>Yes NO
```

This will be the sequence of messages.



```
Voiding card..
```



```
Voiding card..  
Done.
```

## 4 Questions and Answers

### ▣ How to change the network configuration?

Go to **CONFIG | COMMS** and set the **DHCP** according to your needs.

By default the DHCP (Dynamic Host Configuration Protocol) is set to yes. This means that once you connect the T5 lpc into your computer it will request its IP address to a DHCP server. This will only work if there is a DHCP server reachable on the network. If you want to use a specific fixed IP address set use DHCP to NO and configure the above options accordingly to your network system: Static IP Address, Static IP Netmask and Static IP Gateway.

### ▣ How to change the login password?

At this moment the user name cannot be changed and it's default is admin. The login default password is empty but can be changed on the **CONFIG** menu. On General tab on the section New Administration Password type the new password (8 characters).

### ▣ How to change the administration PIN?

Open the web application for T5 lpc (use the browser and type the IP address for the device) and go to **CONFIG** menu. On General tab on the section New Administration PIN type the new PIN. Administration PIN can have up to 4 digits.

### ▣ How can i limit the number of loads per day?

Go to **CONFIG | LOYALTY** and set the option **Maximum number of daily operations** to the number of the loads per day wanted. Please not that 0 or empty means unlimited.

### ▣ Variable that can be used with the Barcodes and text?

The below variables can be used both for ticket/receipt and rewritable cards.

**RR** - Card Type

**XXXX** - Redeem Value

**MMM** - Customer ID

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