

IMX Mobile Proxy Administration



System Manual (v1.0.0 – 11.07.2013)

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General

IMX Mobile is unified communication client application that integrates with the eTellicom IMX system and Siemens HiPath OpenScape Office HX, MX and LX platforms. eTellicom now delivers the feature-rich myPortal desktop functionality to iPhone, iPad and Android devices. *(The Windows Phone version is coming soon!)*¹

Features include:

- ✓ All iPortal IMX features:
 - Send Call to Voicemail
 - Send Call to Cell Phone
 - Change office presence
 - Real-time view of internal contacts' presence
 - Real-time phone state : On Call, Calling, Ringing
 - Favourites
 - View/listen to voice mail messages
 - Call History
 - Call Transfer
 - Live Record Calls

- ✓ CallMe
- ✓ CallMe Mobile
- ✓ Ad-Hoc conference with contacts from your phone system or your mobile phone
- ✓ Start/Stop Scheduled Conferences on your PBX
- ✓ Instant messages
- ✓ Display chat-online users
- ✓ Mobile State
- ✓ Integrated SIP Phone
- ✓ Server and client certificates based SSL (encrypted) connection
- ✓ Ads free
- ✓ ...

It allows the user to control their presence, listen to voicemail messages (via media streaming), system directory search, call journal and conferencing. The telephony part works by instructing the PBX to make a call to the iPhone, iPad or Android device, then the PBX makes a call to the desired party. Both calls are made using ISDN. The application also includes proprietary chat (IM) and SIP Phone.

- ✓ Integration with eTellicom IMX PBX system
- ✓ Integration with eTellicom VisualSuite Unified Communication platform
- ✓ Integration with Siemens HiPath OpenScape Office HX, MX and LX platforms

The **IMX Mobile** application is working with a proxy server named **IMX Mobile Proxy!**

Video tutorial “[IMX Mobile Proxy - How to Install and Configure](http://www.youtube.com/watch?v=erMIISNTRCM)” is available here:
<http://www.youtube.com/watch?v=erMIISNTRCM>

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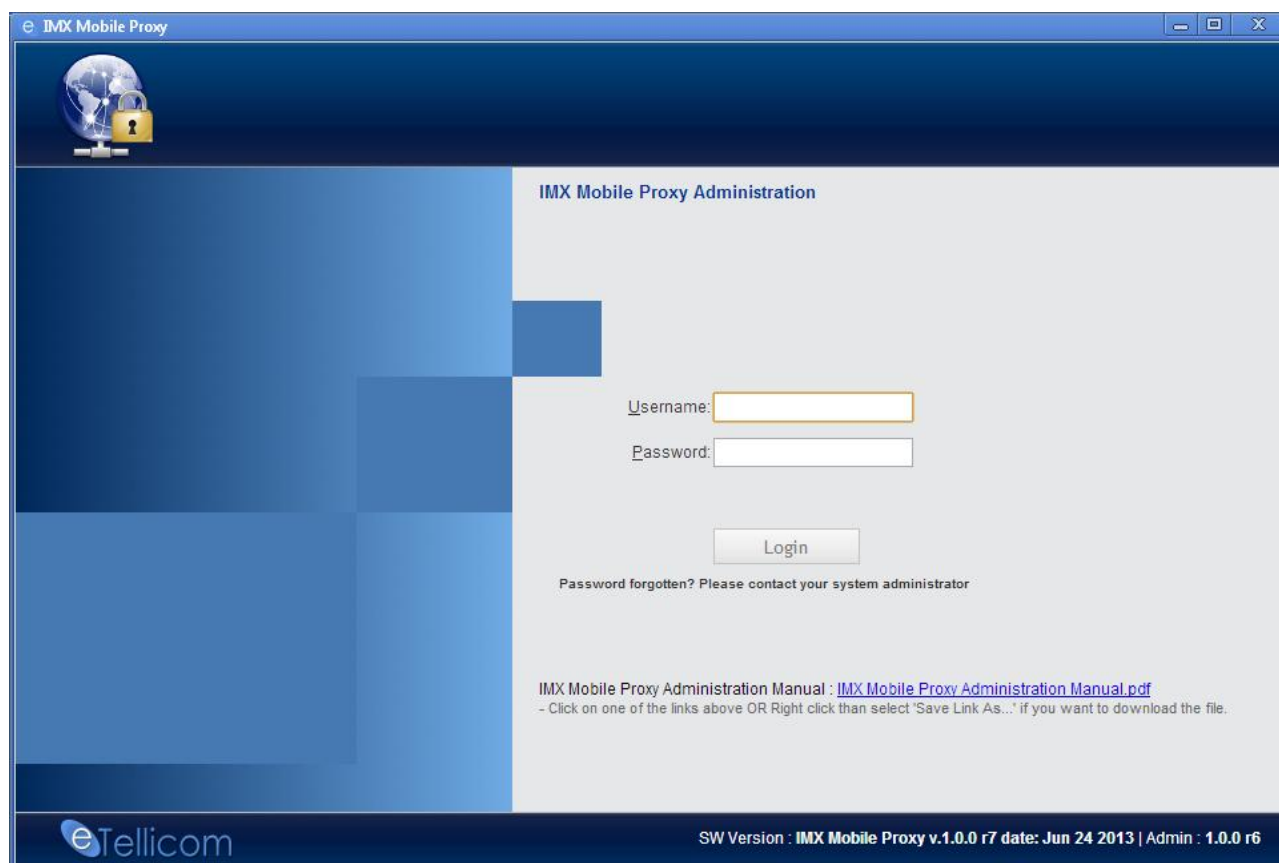
IMX Mobile Proxy

The **IMX Mobile Proxy** is a Linux based proxy server, it can be installed on physical or virtual machine, 32 or 64 bit. The install includes a Linux OS (Cent OS) and is self installable. It takes around 15 minutes to install and configure. This document describes in details how to configure the IMX Mobile Proxy.

The **IMX Mobile Proxy** configuration can be done via Web based administration interface called **IMX Mobile Proxy Administration** (or shortly: **Proxy Admin**). The IMX Mobile Proxy Administration can be started by entering your proxy IP address into your internet browser from any computer in the local network.

Example: <http://192.168.1.2> where 192.168.1.2 is the proxy IP address.

The administration login page will be shown, for security reason the access of the IMX Mobile Proxy Administration is protected by username and password.



IMX Mobile Proxy Administration

Username:

Password:

Login

Password forgotten? Please contact your system administrator

IMX Mobile Proxy Administration Manual : [IMX Mobile Proxy Administration Manual.pdf](#)
- Click on one of the links above OR Right click than select 'Save Link As...' if you want to download the file.

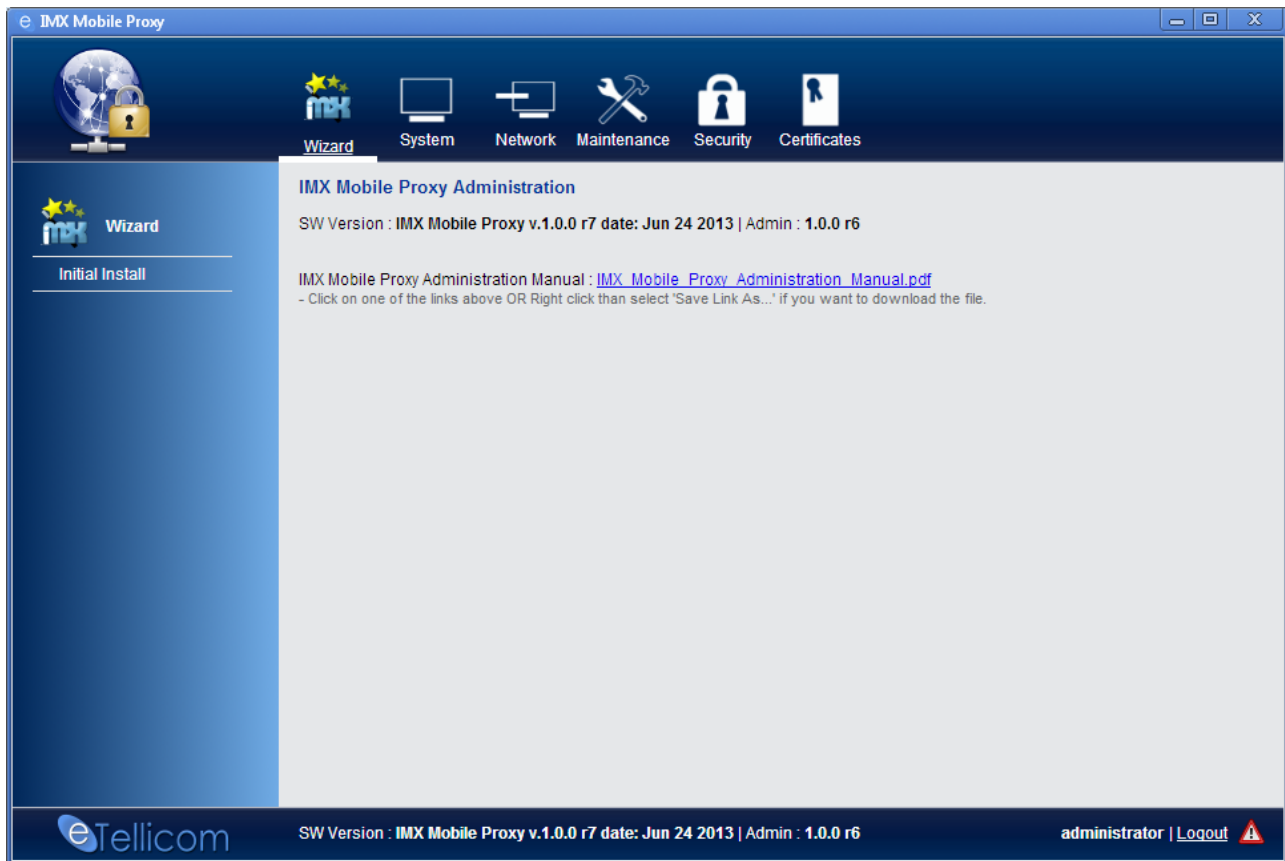
eTellicom

SW Version : IMX Mobile Proxy v.1.0.0 r7 date: Jun 24 2013 | Admin : 1.0.0 r6

The default username “administrator” should be used here, with the default password “admin” unless otherwise instructed (or any other available administration account).

Attention: For security reasons, it is strongly recommended to change the default administrator password after the first login (Menu Security -> Administrator)!

Once the login procedure is completed you will be presented with the default administration screen. It is from here that administration will take place. The IMX Mobile Proxy administration is separated by sections that are represented by menus (see the screen-shot below).



The Proxy Admin has 6 (six) principal or main menus available on top:

- Wizard
- System
- Network
- Maintenance
- Security
- Certificates

Each main menu has its own sub menus shown on the left side of the Proxy Admin.

In most cases the Initial Install wizard (that consists of six simple steps) is enough to complete the IMX Mobile Proxy setup.

The Initial Install has the following steps: Date & Time → License Request → License Activation → General Settings → Generate CA → Client Certificates. Each of these steps will be explained separately as a sub menu of the principal (top) menus listed above.

Attention: The warning icon next to the Logout button on the bottom right corner indicate that the default username and password are still in place and needs to be changed.

System [\(Top\)](#)

The System area allows control of the general functions of the proxy system. As these functions have serious effects great care must be taken when editing the information in this area.

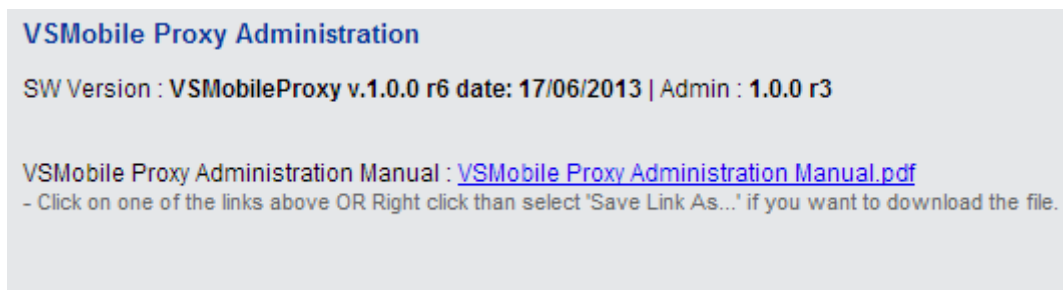
The following menus are available in this section:

- [About](#)
- [Date & Time](#)
- [General Settings](#)
- [License Info](#)
- [Activate License](#)



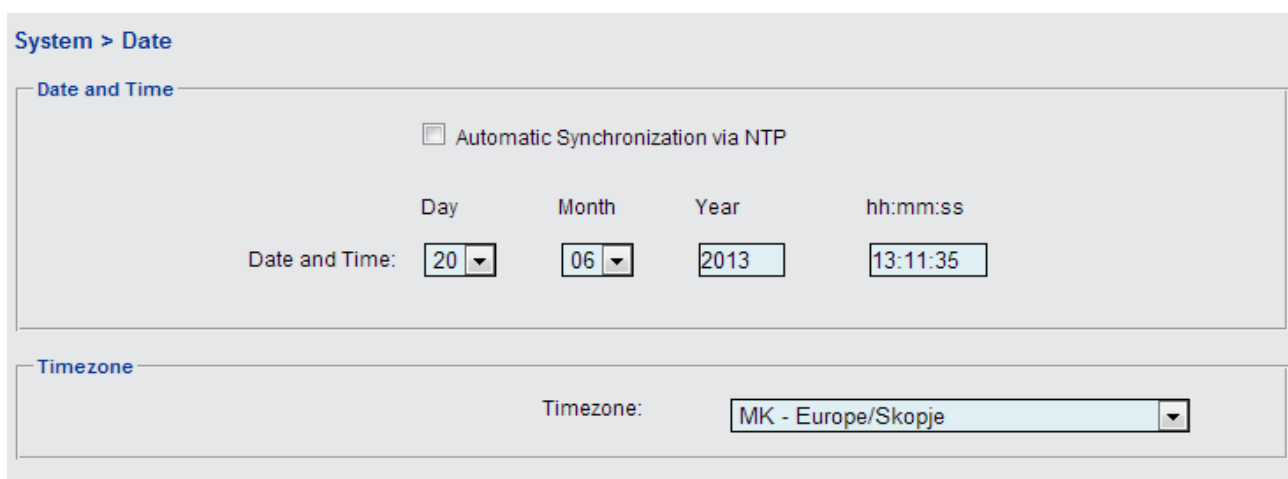
About [\(System\)](#)

The About area displays the main page of Proxy Admin including the current software and web Administration versions



Date & Time [\(System\)](#)

The Date & Time area governs the date and time of the system in addition to allowing automatic time updating using an NTP server and the time zone in which the system is installed. These will be configured during installation and changes should not be made here unless otherwise directed.



General Settings [\(System\)](#)

Is here where we setup the IP address (named VSL Host) of the PBX system (eTellicom IMX, Siemens HiPath OpenScape Office HX, MX and LX platforms etc). The default VSL Port is 8779, and in most cases will be unchanged.

The screenshot shows the 'System > General Settings' configuration page. It is divided into two main sections: 'General Settings' and 'VSMobileProxy Status'.
In the 'General Settings' section, there are three fields:

- VSL Host:** A text input field containing '192.168.1.2' with a red asterisk (*) to its right. Below it is the example text '-Ex. 192.168.1.2'.
- VSL Port:** A text input field containing '8779'. Below it is the example text '-Ex. 1234, default is 8779'.
- Use SSL:** A checkbox that is checked. Below it is the text '-Use secure connection!'.

In the 'VSMobileProxy Status' section, the status is displayed as 'Status : ON!' where 'ON!' is in a yellow box. To the right of this is a 'Restart' button.

By selecting the Apply button the entered parameters will be stored into the proxy database (**the proxy will not be restarted with the new parameters**)

This menu provides a “Restart” option that will restart the proxy module (not the entire proxy server) in order to apply the new General Settings.

The IMX MobileProxy status indicates the status of the proxy module.

License Info [\(System\)](#)

This menu is displaying the current proxy license status but also has options for license request and license generation in case the proxy license is not yet available or invalid.

The screenshot shows the 'License > License Info' configuration page. It contains a single section titled 'License Status' which displays the text 'Licensed!, date: June 20 2013, 10:39:38' in a green box.

In case the proxy is not licensed or have invalid license, the following form should be completed in order to request a valid proxy license from eTellicom Pty. Ltd.

Selecting the Apply button will only store the entered parameters into the proxy database. Once the parameters are applied there are two options:

- Send Request: Will send License Request to eTellicom Pty. Ltd. (your server needs to be connected to the Internet)
- Generate: Will generate License Request that can be saved into a file format then can be send to eTellicom Pty. Ltd.

Your Contact Details

Contact Name : (*)
-Ex. John Smith

Company : (*)
-Ex. My Company

Phone : (*)
-Ex. +123 456 789

E-Mail : (*)
-Ex. email@example.com

* Send Request - Send License Request to eTellicom Pty. Ltd. (Your server needs to be connected to the Internet)
 * Generate - Generate License Request that can be saved on your PC then you can send it to eTellicom Pty. Ltd.

Activate License [\(System\)](#)

Once you have a valid proxy license obtained from eTellicom Pty. Ltd. This menu can be used for applying the new license to the proxy system. The proxy will automatically validate the new license.

License > Activate License

Activate License File

Personal Key :

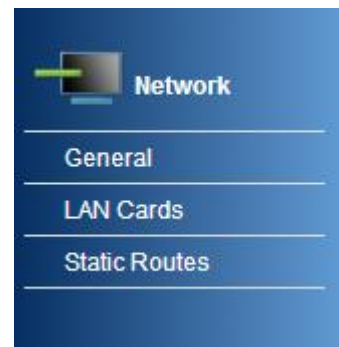
License File Name : No file chosen
- Import License file.

The license status can be shown under the License Info menu.

Network [\(Top\)](#)

This area is used for network configuration. The following menus are available in this section:

- [General](#)
- [LAN Cards](#)
- [Static Routes](#)



General [\(Network\)](#)

General network configuration to specify the IMX Mobile Proxy hostname and gateway. (See the screen-shot below).

Network > General

Network General Configuration

Hostname : (*)
- Ex. localhost.localdomain, example.com (Allowed characters : 0-9, A-Z, dash '-', underscore '_' and dot '.')

Gateway :
- Host name or IP address. Ex. 192.168.1.1, example.com. (Allowed characters : 0-9, A-Z, dash '-', underscore '_' and dot '.')

After applying the entered parameters the proxy network will be restarted and you may need to re-login into the IMX Mobile Proxy Web Administration Interface.

LAN Cards [\(Network\)](#)

Preview and edit the LAN cards parameters.

Network > LAN Cards

	Device Name	Hardware Address	IP Address	Gateway	Primary DNS	Secondary DNS	On Boot	Edit
1.	eth1	00:1f:c6:bb:c6:5d	192.168.1.3	192.168.1.1	8.8.8.8	4.2.2.1	Enabled	Edit

List of all available (installed) LAN Cards (see screen-shot above).
 Edit selected LAN Card (by selecting the Edit link)

Network > LAN Cards

Edit LAN Card eth1

Device name :

Hardware Address : **00:1f:c6:bb:c6:5d**

IP Address :
- Ex. localhost.localdomain, example.com (Allowed characters : 0-9, A-Z, dash '-', underscore '_' and dot '.')

Gateway :
- Ex. localhost.localdomain, example.com (Allowed characters : 0-9, A-Z, dash '-', underscore '_' and dot '.')

Primary DNS :
- Ex. localhost.localdomain, example.com (Allowed characters : 0-9, A-Z, dash '-', underscore '_' and dot '.')

Secondary DNS :
- Ex. localhost.localdomain, example.com (Allowed characters : 0-9, A-Z, dash '-', underscore '_' and dot '.')

Activate On Boot :

Static Routes [\(Network\)](#)

Is here where you can manage the static routes - create new or delete existing route/s.

Network > Static Routes

Intefrace	No.	IP Address	Netmask	Gateway	Delete
-----------	-----	------------	---------	---------	--------

There is no avaiable static routes!

Each route is defined by the following parameters: NIC, IP Address, Netmask and Gateway as shown on the screen-shot below:

New Static Route

Network Interface (NIC): (*)

IP Address : (*)
- Ex. 192.168.1.3

Netmask : (*)
- Ex. 255.255.255.0

Gateway : (*)
- Ex. 192.168.0.1

Maintenance [\(Top\)](#)

The following menu is available in this section:

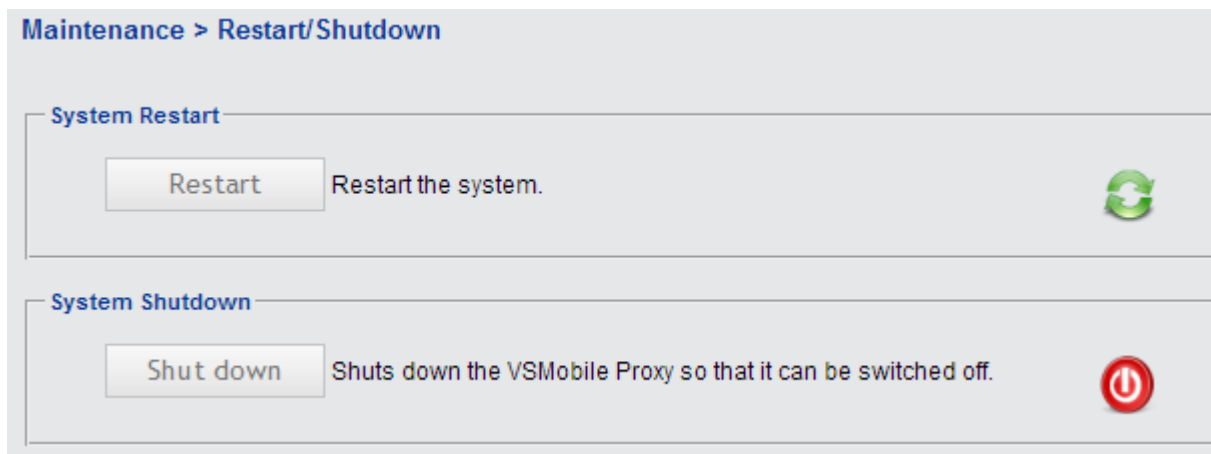
- [Restart/Shutdown](#)
- [Online Update](#)



Restart/Shutdown [\(Maintenance\)](#)

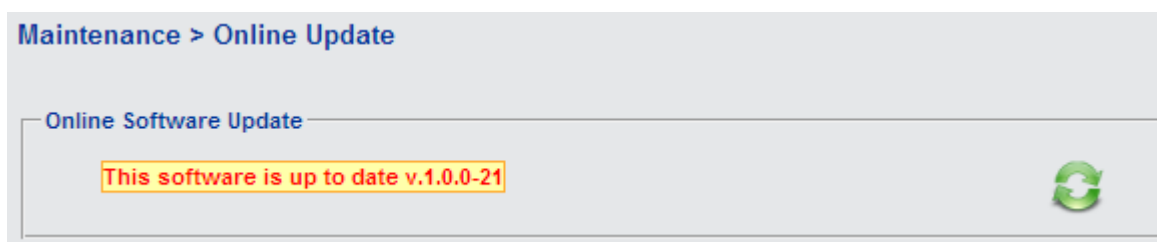
Restart/Shutdown is used restart and shutdown the IMX Mobile Proxy system/server.

- **System Restart** – will initiate a full restart of the system.
- **System Shutdown** – Shuts down the IMX Mobile Proxy so that it can be switched off.



Online Update [\(Maintenance\)](#)

When the proxy has Internet access it will automatically check for available software updates.



By simple click on the “Update” button the software will be upgraded to the latest fixes and improvements. NOTE: The “Update” button is available only when there is a software update available.

Security [\(Top\)](#)

This menu stands for changing the Administrator username and password, and logging all admin changes into the proxy configuration. The following menus are available in this section:

- [Administrator](#)
- [Admin Changes](#)



Administrator [\(Security\)](#)

Changing the administrator username and password, the default administrator username is “administrator” and the default password is “admin”

Security > Administrator

Edit Administrator

Login Name : (*)

Password : (*)

Confirm Password : (*)

Attention: For security reasons, it is strongly recommended to change the default administrator password after the first login!

Admin Changes [\(Security\)](#)

The system for security purpose is login all admin changes that are displayed into the following screen-shot:

Security > Admin Changes

	Administrator	IP	Date/Time	Action	Details
1.	administrator	192.168.1.125	2013-06-20 10:40:52	New Client Certificate	Client:103, expire days:100
2.	administrator	192.168.1.125	2013-06-20 10:40:52	New Client Certificate	Client:102, expire days:100
3.	administrator	192.168.1.125	2013-06-20 10:40:51	New Client Certificate	Client:101, expire days:100
4.	administrator	192.168.1.125	2013-06-20 10:40:51	New Client Certificate	Client:100, expire days:100
5.	administrator	192.168.1.125	2013-06-20 10:40:22	Generate CA + Server Certificate	-
6.	administrator	192.168.1.125	2013-06-20 10:36:55	Generate License Request	-

Certificates [\(Top\)](#)

Under this menu the server and clients certificates are managed. The following menus are available in this section:

- [Generate CA \(server certificate\)](#)
- [Client Certificates](#)



Generate CA [\(Certificates\)](#)

During the initial configuration is necessary to generate a CA – Certificate Authority, which is a server certificate that will be used to validate the client certificates.

Certificates > Generate CA

CA and Server Certificate Settings

Common Name : (*)
-Ex. My CA

Alternative Name :
-DNS: example.com or IP:x.x.x.x or Email:my@example.com

Organization Name : (*)
-Ex. My Organization

Expire Days : (*)
-Number of days. Ex. 365

Server Certificate Status

Status : **Certificate not found!**

The Apply button will only store the entered parameters into the proxy database; to generate the certificate authority the “Generate” button should be used.

The Certificate Status indicates if the CA already exists or not.

If the CA already exists the status looks like on the screen-shot below:

Server Certificate Status

Status : **+OK, created at June 30 2013, 23:50:04**

The “Generate” button is replaced by “Remove” button that can be used to remove the CA already generated.

NOTE: Removing the CA will also remove all available client certificates!

Client Certificates [\(Certificates\)](#)

The proxy access is restricted for certified clients only, under this menu the administrator can add new or delete existent client certificates. Only clients available under the Client Certificates table are allowed to login to the PBX system via the IMX Mobile Proxy.

The IMX Mobile app is automatically installing the certificates when the proxy is accessed from the same network (LAN) or via VPN. Under this menu a list of all system clients is shown including details for certified clients as on the screenshot below:

Certificates > Client Certificates

	User Login	User Name	E-mail	Date	Comment	Expire/Days	Status	Delete / Add	
1.	100	Daniel Ä	danielv@etellicom.com (Send)	2013-07-01 08:50:10	Certificate for 100	365	Download	Delete	<input type="checkbox"/>
2.	101	Hugh Martin	-	2013-07-01 08:50:21	Certificate for 101	365	Download	Delete	<input type="checkbox"/>
3.	102	Daniel 007ü	-	2013-07-01 08:50:21	Certificate for 102	365	Download	Delete	<input type="checkbox"/>
4.	103	ÄÜ&ü Zoran	zoran@etellicom.com (Send)	2013-07-01 08:50:21	Certificate for 103	365	Download	Delete	<input type="checkbox"/>
5.	104	Raul	-	2013-07-01 08:50:22	Certificate for 104	365	Download	Delete	<input type="checkbox"/>
6.	105	Nick	-	2013-07-01 08:50:22	Certificate for 105	365	Download	Delete	<input type="checkbox"/>
7.	106	SIP6	nick@etellicom.com	-	-	-	Not Found	Add	<input type="checkbox"/>
8.	107	107	-	-	-	-	Not Found	Add	<input type="checkbox"/>
9.	108	SIP8	-	-	-	-	Not Found	Add	<input type="checkbox"/>
10.	109	SIP9	-	2013-07-09 14:34:58	Certificate for 109	365	Download	Delete	<input type="checkbox"/>
11.	110	SIP10	danielv@etellicom.com (Send)	2013-07-09 14:35:03	Certificate for 110	365	Download	Delete	<input type="checkbox"/>
12.	111	SIP11	-	-	-	-	Not Found	Add	<input type="checkbox"/>
13.	112	112	-	-	-	-	Not Found	Add	<input type="checkbox"/>
14.	113	113	-	-	-	-	Not Found	Add	<input type="checkbox"/>

Select All Unselect All Remove Create New.. 365 Expire/Days (*) -Number of days. Ex. 365

By clicking on the “Add” button a new certificate will be created for the selected user, the “Delete” button will delete/remove the certificate already created. This form allows multiple creation (“Create New” button) and delete (“Remove” button) of client certificates at once by simply selecting/checking the check box available at the last column.

The admin can also control the certificate expiration by entering the number of days into the Expire/Days filed available at the bottom.

The “Download” link can be used to download the selected client certificate for manual installation in case the mobile device cannot install the certificates automatically (not in same local network and don’t have VPN access) and the proxy does not have Internet access to email the certificates to the clients.

For the available certificated clients with system email addresses by clicking on the client email address the IMX Mobile Certificate will be emailed to the selected client.

Feedback:

Maintainer: **Daniel VELJJANOSKI**

DanielV@etellicom.com

Support:

support@etellicom.com

<http://etellicom.com/imxmobileproxy>

Video tutorial “IMX Mobile Proxy - How to Install and Configure” is available here:

<http://www.youtube.com/watch?v=erMIIISNTCRM>



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