



**SwyxDECT 500**  
**Administration Documentation**

**As of: July 2016**

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# 1 SwyxDECT 500 System

## Operation of a SwyxDECT 500 with SwyxWare

This attachment describes the SwyxDECT 500 base station.

SwyxDECT 500 supports the following functions:

- LAN connection to the Server
- Up to eight (G.711 - eight, G.729 - eight, G.722 - five) simultaneous phone calls per base station.
- Up to 1000 users per multi-cell system, and up to 30 users per single-cell
- Up to 3 repeaters are possible on one base station
- Configuration via web interface
- DECT GAP/CAP radio interface
- Air synchronization between several base stations
- Power over Ethernet (PoE 802.3af)
- External LED status display

For the maximum scope of installation the following configuration options are available:

Base stations	Repeaters per base station	Handsets
254	-	1000
127	1	1000
50	3	1000

## 1.1 Scope of supply

- One base station
- One stand
- Two screws with wall plugs

## 1.2 Installation

The SwyxDECT 500 can be operated as a stand-mounted or wall-mounted system. Before mounting the station to a wall, the stand has to be disassembled.

### How to mount the SwyxDECT 500 base station to a wall

1. Mark two bore holes horizontally at a distance of 60mm.
2. Drill the holes and insert the dowels.
3. Turn in two screws until the screw head is at a distance of 4mm to the wall.
4. Attach the base station to the screws and push it downwards.

## 1.3 General Information on SwyxDECT 500



A SwyxDECT 500 has two internal antennas.

### Power Supply

A PoE (Power-Over Ethernet) supply, class 2 (3.84 to 6,49 watt at 48 volt DC) is required.

### Network

- RJ45 jack for LAN/PoE

### State signaling by LEDs

The SwyxDECT 500 has an LED, which indicates the states of the system.

LED Signal	State
permanent green light	The base station is active, the network registration has been successful.
blinks orange	The base station is being initialized.
blinks red	Voltage present, network registration failed.
off	Base station is inactive.

### Reset

By using the reset switch, the base station can be reset to factory settings. Press the reset switch for at least 10 seconds with a pointed tool, until the red LED lights up permanently.

## 1.4 Starting the SwyxDECT 500 base station

The SwyxDECT 500 is preset for the use of a DHCP server. When first switched on, it automatically obtains an IP address of a DHCP server.

### SwyxDECT 500 in a network with DHCP

- Make a note of the MAC address, which is given on the back of the base station.
- In the DHCP server, check the IP address of SwyxDECT 500 by using the MAC address.
- Enter `http://xxx.xxx.xxx.xxx` (whereas `xxx.xxx.xxx.xxx` is the identified IP address) in the address field of the web browser.

The home page of the SwyxDECT 500 web interface appears. Here you can configure the base station.

Alternatively, you can identify an existing IP address via the DECT handset, even when the handset is not registered on the base station.

### How to identify the IP address of the base station via the DECT handset

1. Press the menu button of the DECT handset.
2. Enter `"*47"`.
3. The IP search starts. Wait up to 30 seconds.

4. The MAC and the IP address of the base station are displayed. By comparing the displayed MAC address with the MAC address on the SwyxDECT 500 type label, you can verify that the handset has found the desired base station.
5. If several base stations exist, their MAC and IP addresses are also displayed. Use the navigation key to scroll through the base station information.

## 1.5 Configuration of a SwyxDECT 500 base station

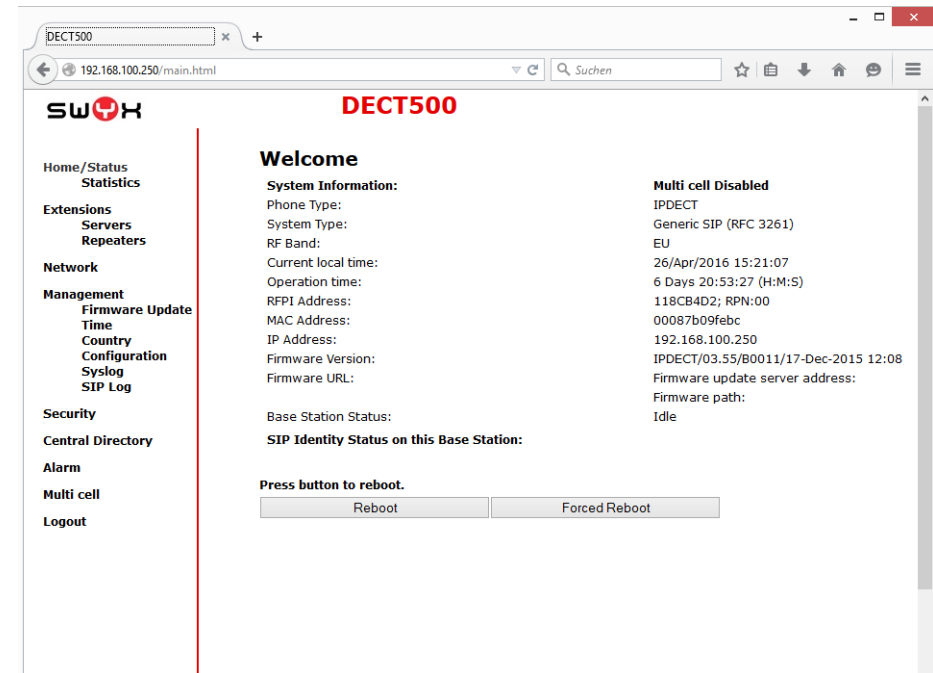
A SwyxDECT 500 must be configured so that it can be reached by Swyx-Server. Then, you can connect the DECT handsets with the SwyxDECT 500 base station and make calls via SwyxServer.

SwyxDECT 500 can be operated in a multi-cell system as well as a single-cell system.

### 1.5.1 Configuration as a single-cell system

#### How to configure a SwyxDECT 500 base station as a single-cell

1. Define the IP address of the SwyxDECT 500 and gain access to SwyxDECT 500 via the web interface (siehe auch Kapitel 1.4, *Starting the SwyxDECT 500 base station*, Seite 3).
2. Enter the IP address of the base station in the address bar of a browser.  
A login window will open.
3. Enter the user name and password. By default the user name and password is "admin" and "admin".  
The home page of the web interface to configure the SwyxDECT 500 base station opens.



4. Go to the menu bar and click on "Management | Country setting" and select the country and the desired language. Confirm your selection by clicking on "Save and Reboot".  
The system restarts.
5. Select the "Management | Time settings" option, and enter the IP address of your Windows server or a public time server (e.g. ptbtime1.ptb.de) in the field "Time Server". This synchronizes the time being displayed on the DECT handsets.
6. Click on "Save and Reboot".  
The system restarts.
7. Select the "Management" option.
8. Give the base station a name.
9. Confirm the entry by clicking on "save".
10. Select the "User | Server" option.
11. Click on "Add server".
12. Deactivate the NAT adaption.
13. Enter the SwyxServer's IP address in the "Registrar" field.

14. Please enter in the field "Secondary Registrar-Address:" the IP-address of the Standby Server.
15. Activate "SIP Session Timers."
16. Enter the value "90" in the "SessionTimer Value" field.
17. In the field "DTMF signaling", select "SIP-INFO".



In order to support Codec G.729, an optional module for the base station is required (one module per base station). The codec G.729 should be placed after codec G.711U in the priority list.

18. Click on "Save."
19. Add a new user. Weitere Informationen entnehmen Sie bitte dem Abschnitt *How to add a new user*, Seite 8.



In general: You can save configuration changes by clicking on "save." If there is no "Save" button available on the respective site, changes have to be confirmed by restarting the base station.

## 1.5.2 Configuration of a multi-cell system

A multi-cell system is an aligned and synchronized system of base stations, covering larger radio ranges. Up to 254 base stations can be used. They can be set up in chains (up to 24 base stations per chain).

Before installing a multi-cell system, all requirements regarding radio coverage, number of DECT users, their movements, as well as the installation site (building information) have to be met. Verify if any interference factors are present that may have a negative impact on the DECT installation.

Please adhere to the following sequence of steps to configure a multi-cell system.

- Setup first base station (step (1) to (9))
- Add server (Step (10) to (18))
- Add at least one user (step (19))
- Set first base station to "multi-cell" (step (20))
- Add second base station (repeat step (1) to (9) followed by (20) to (22))

## How to configure a multi-cell system

1. Enter the IP address of the base station in the address bar of a browser.  
A login window will open.
2. Enter the user name and password. By default the user name and password is "admin" and "admin".
3. The home page of the web interface to configure the SwyxDECT 500 base station opens.
4. Go to the menu bar and click on "Management | Country setting" and select the country and the desired language. Confirm your selection by clicking on "Save and Reboot".  
The system restarts.
5. Select the "Management | Time settings" option, and enter the IP address of your Windows server or a public time server (e.g. ptbtime1.ptb.de) in the field "Time Server". This synchronizes the time being displayed on the DECT handsets.
6. Click on "Save and Reboot".  
The system restarts.
7. Select the "Management" option.
8. Give the base station a name.
9. Confirm the entry by clicking on "save".
10. Select the "Extensions | Server" option.
11. Click on "Add server".
12. Deactivate the NAT adaption.
13. Enter the SwyxServer's IP address in the "Registrar" field.
14. Please enter in the field "Secondary Registrar-Address:" the IP-address of the Standby Server.
15. Activate "SIP Session Timers."
16. Enter the value "90" into the "Session Timer Value" field.
17. In the field "DTMF signaling", select "SIP-INFO".



In order to support Codec G.729, an optional module for the base station is required (one module per base station). The codec G.729 should be placed after codec G.711U in the priority list.

18. Click on "Save."

19. Add a new user. Weitere Informationen entnehmen Sie bitte dem Abschnitt *How to add a new user*, Seite 8.
20. Select the "Multi-cell" option.
21. Select "Activated" in the field "Multi-cell system". Within the "Home/Status" menu item, the base station will be marked as primary cell in the "System information" field.
22. Click on "Save and Reboot".  
The system restarts.
23. Configure further base stations by repeating step (1) to (9), followed by step (20) to (22).
24. After a few minutes, the configured base stations will be displayed in the "Base station group" table. The base station added first will automatically be defined as the primary base station.
25. The synchronization will be defined automatically. For a manual synchronization, the field "Configure synchronization of DECT tree automatically" must be set to "Deactivated". Afterwards, you can set the order manually in the "DECT synchronization source" column.
26. Click on "Save" to activate the settings.



Please note that the multi-cell ID for several base stations must be identical.

### 1.5.3 Settings at the webinterface

Function	Description
<b>Home/Status</b>	General overview of the current operating status and settings on the base station and the handsets. <b>Statistics</b> Overview of the functionality of the base station(s). The logs can help the administrator in cases of error analysis and system optimization.
<b>Users</b>	Managing all users. Weitere Informationen entnehmen Sie bitte dem Kapitel 1.5.3.1, <i>User</i> , Seite 7. <b>Servers</b> Setting the server to which the base station connects. Weitere Informationen entnehmen Sie bitte dem Kapitel , <i>Servers</i> , Seite 9. <b>Repeaters</b> Option to configure repeaters. Weitere Informationen entnehmen Sie bitte dem Kapitel , <i>Repeaters</i> , Seite 10.
<b>Network</b>	<b>IP Settings</b> Here, select whether you would like to configure a DHCP-assigned IP address or a static address. When selecting a static IP address, you can save the respective parameters. <b>NAT settings</b> Option to configure the function for NAT resolution. These functions facilitate interoperability with most types of routers. <b>SIR/RTP Settings</b> Facilitates configuration of SIP parameters. <b>DHCP Options</b> Facilitates activating/deactivating plug-n-play. Weitere Informationen entnehmen Sie bitte dem Kapitel 1.5.3.2, <i>Network</i> , Seite 11.



Function	Description
<b>Management</b>	<p>Option to configure the base station for special functions, such as web interface language, log management, etc.)Weitere Informationen entnehmen Sie bitte dem Kapitel 1.5.3.3, <i>Management</i>, Seite 12.</p> <p><b>Firmware update</b> Option to configure how base stations and handsets are updated.Weitere Informationen entnehmen Sie bitte dem Kapitel , <i>Firmware update</i>, Seite 13.</p> <p><b>Time</b> Option to configure a time server.Weitere Informationen entnehmen Sie bitte dem Kapitel , <i>Time</i>, Seite 14.</p> <p><b>Country</b> Option to configure location.Weitere Informationen entnehmen Sie bitte dem Kapitel , <i>Country</i>, Seite 14.</p> <p><b>Configuration</b> Display of detailed and complete SME network settings for base stations, HTTP/DNS/DHCP/TFTP servers, SIP servers, etc.Weitere Informationen entnehmen Sie bitte dem Kapitel 1.5.3.7, <i>Log out</i>, Seite 16.</p> <p><b>Syslog</b> Display of events and logs respective to the whole network (live feed only).Weitere Informationen entnehmen Sie bitte dem Kapitel , <i>Syslog</i>, Seite 14.</p> <p><b>SIP Log</b> Display of SIP-related logs</p>
<b>Security</b>	Option to assign a user name and password on the base station.Weitere Informationen entnehmen Sie bitte dem Kapitel 1.5.3.4, <i>Security</i> , Seite 14.
<b>Global Phonebook</b>	Option to load a global telephone book saved on the server.Weitere Informationen entnehmen Sie bitte dem Kapitel 1.5.3.5, <i>Global Phonebook</i> , Seite 15.

Function	Description
<b>Multicell</b>	Option to enter the parameters for configuring a multi-cell system.Weitere Informationen entnehmen Sie bitte dem Kapitel 1.5.3.6, <i>Multicell</i> , Seite 15.
<b>Log out</b>	Log-off

### 1.5.3.1 User

Under the menu item "Extensions", the following settings are possible:

- Add and edit users
- Display all of the system's registered users
- Place the base station into log-on mode to log on handsets. Weitere Informationen entnehmen Sie bitte dem Abschnitt *How to connect SwyxPhone D510 with SwyxDECT 500*, Seite 16.
- Select registered users to delete or deregister handsets

#### Edit extension (D510)

IPET:	<input type="text" value="0188709C12"/>
AC:	<input type="text" value="0000"/>
Extension:	<input type="text" value="510"/>
Authentication User Name:	<input type="text" value="510"/>
Authentication Password:	<input type="password" value="••••"/>
Display Name:	<input type="text" value="D510"/>
Mailbox Name:	<input type="text" value="510"/>
Mailbox Number:	<input type="text" value="##10"/>
P-Preferred-Identity:	<input type="text" value="510"/>
Server:	<input type="text" value="CPE-Astra0: 192.168.100.197"/>
Call waiting feature:	<input type="text" value="Enabled"/>
BroadWorks Busy Lamp Field List URI:	<input type="text"/>
BroadWorks Feature Event Package:	<input type="text" value="Disabled"/>
Forwarding Unconditional Number:	<input type="text" value="Disabled"/>
Forwarding No Answer Number:	<input type="text" value="Disabled"/>
Forwarding on Busy Number:	<input type="text" value="Disabled"/>

#### Import Local Phonebook:

Filename:  Keine Datei ausgewählt

#### Export Local Phonebook:

Parameter	Description
IPEI	(International Portable Equipment Identifier) Serial number of the DECT handset. The IPEI number is set for every handset by the manufacturer and can be seen in the menu of the SwyxPhone D510 under "Settings   Status".
AC (Authorization Code)	a number with 4 digits, which you assign to the user's handset for the registration at a base station.
Extension	SIP user ID you entered into the user's properties on the SwyxWare-Administration.
Authentication User Name	SIP user name you entered in the user's properties on the SwyxWare-Administration.
Authentication Password	Password you entered in the user's properties on the SwyxWare-Administration.
Display Name	Additional designation appearing on the handset's display.
Mailbox Name	Numbers of User
Mailbox Number	Here you can e.g. enter the function code for remote query (##10).
P-Preferred-identity (Sender number)	Here you can enter further numbers additionally to the own number of the user (e.g. "234;220;478" for an internal number, a group number and an alternative number). Subsequently the user can decide for every external call with the selection of the desired line, which number he wants to signal.
Server	SwyxServer IP address; various servers can be selected.

### Add user

Before registration of the new user please keep at hand the serial number (IPEI) of the concerning handset ready. The serial number can be displayed in the menu of SwyxPhone D510 under "Settings | Status".

### How to add a new user

1. Select the "Extensions" option in the menu bar.
2. Click on "Add extensions."
3. Enter in the field "IPEI" the serial number of the handset.
4. Enter in the field "AC" the 4 digits number, which is used to identify the user (handset) for the registration at the base station.
5. Enter the number in the "SIP User" field and the SIP user name in the "Authentication Name" field that you also assigned on the SwyxServer during the SIP registration (siehe auch Kapitel 8.2.1.4, Registerkarte „SIP-Registrierung“, Seite 158).
6. Under "Authentication Password" enter the SIP password that you also assigned in SwyxServer during SIP registration.
7. In the "display information" field, enter the name that should appear on the user's SwyxPhone D510 display.
8. Enter the phone number in the field "Mailbox Name".
9. You can use the "Mailbox Number" field, e.g. to enter the function code for remote query (##10).
10. In the "Server" field, select the SwyxServer on which the user is configured.
11. Click on "Save."
12. Select the desired user.
13. Click on "Log-on handsets".  
The log-on mode for the base station is enabled.
14. Log the SwyxPhone D510 of the user just added onto the base station while the base station is still in log-on mode Kapitel 1.6, *Log on SwyxPhone D510/SwyxPhone D565 to SwyxDECT 500*.

### Servers

**Server1**

Server Alias:

NAT Adaption:

Registrar:

Secondary Registrar Address:

SIP Server Retry Check Time:

Call Log Server:

Reregistration time (s):

SIP Session Timers:

Session Timer Value (s):

SIP Transport:

Signal TCP Source Port:

Use One TCP Connection per SIP Extension:

RTP from own base station:

Keep Alive:

Show Extension on Handset Idle Screen:

Hold Behaviour:

Local Ring Back tone:

Attended Transfer Behaviour:

Directed Call Pickup:

Directed Call Pickup Code:

Group Call Pickup:

Group Call Pickup Code:

Use Own Codec Priority:

DTMF Signalling:

DTMF Payload Type:

Remote Caller ID Source Priority:

Codec Priority:

RTP Packet Size:

Secure RTP:

Secure RTP Auth:

SRTP Crypto Suites:

Function	Description
Server Alias	You can enter a name for the server which consists of 10 characters max.
NAT Adaption	When this option is activated, all SIP messages are forwarded directly to the NAT gateway on the SIP aware router. The standard setting for this option is activated.
Registrar	SwyxServerIP-adress
Secondary Registrar Address	IP address of the standby server
SIP Server Retry Check Time	The interval (in seconds) for identifying the active server on a standby system.
Registration time (s)	The time frame (in seconds) for renewed SIP registration of the base station on SwyxServer.
RTP from own basestation	If activated, only the base station, on which the User is logged on, will be used for data transfer to the outside. (This options will only make sense in case of a not optimal use to capacity of the network).
Keep Alive	This option defines the time frame for opening ports on relevant NAT aware routers.
Display extension on handset (in idle state)	Show own extension on the headset.
Use Own Codec Priority	If activated, the codec priority of the base station will be preferred to the code priority of the servers.
DTMF Signalling	Method for signaling keys being pressed during a conversation.
Codec priority	Selection of the codec priority that the base station should use for audio compression and transmission. You set the order using the buttons "up" and "down."

Function	Description
RTP Packet Size	The setting should be changed only after consulting the support service.

### How to add a new server

1. In the menu bar, click on "Extensions | Servers".
2. Choose "add server."
3. Enter the SwyxServer's IP address in the "Registrar" field.
4. If you are using a standby server, enter the standby server's IP address in the "secondary registrar address:" field.
5. Activate "SIP Session Timers."
6. Enter the value "90" in the "SessionTimer Value" field.
7. Select "SIP INFO" in the "DTMF signalization" field.



In order to support Codec G.729, an optional module for the base station is required (one module per base station). The codec G.729 should be placed after codec G.711U in the priority list.

8. Confirm the entry by clicking on "save".

### Repeaters

The "repeater" area can be used to extend the range of your base stations by installing additional repeaters (up to 100 repeaters per system). Up to three repeaters per base station and up to three repeaters on one chain can be used. Up to five (with G.711 five, with G.729 five, with G.722 two) simultaneous calls per repeater possible.

### How to add a repeater

1. Select the "Extensions | Repeaters" option.
2. Select "Add Repeater".
3. In the field "DECT sync mode", select "Manually".
4. Establish the DECT synchronization source.
5. Click on "Save."
6. The repeater is listed.
7. Select the repeater being registered by setting a check mark.
8. Click on "register repeater."

9. Connect the repeater to a power socket.
10. Press the button located on the repeater.
11. After a few seconds, the repeater's light will be light up in green.
12. Update the base station's web page, and the repeater will be displayed in the list.



Avoid registering repeaters and headsets simultaneously, for this may result in interference effects.

### 1.5.3.2 Network

The network settings consist of the following parts: "IP settings", "SIP/RTP settings", "DHCP options" and "NAT settings".

#### Network Settings

<b>IP settings</b>		<b>NAT Settings</b>	
DHCP/Static IP:	<input type="text" value="DHCP"/>	Enable STUN:	<input type="text" value="Disabled"/>
IP Address:	<input type="text" value="192.168.100.250"/>	STUN Server:	<input type="text"/>
Subnet Mask:	<input type="text" value="255.255.252.0"/>	STUN Bindtime Determine:	<input type="text" value="Enabled"/>
Default Gateway:	<input type="text" value="192.168.100.1"/>	STUN Bindtime Guard:	<input type="text" value="80"/>
DNS (Primary):	<input type="text" value="192.168.100.216"/>	Enable RPORT:	<input type="text" value="Disabled"/>
DNS (Secondary):	<input type="text" value="192.168.100.205"/>	Keep alive time:	<input type="text" value="90"/>
<b>VLAN Settings</b>		<b>SIP/RTP Settings</b>	
ID:	<input type="text" value="0"/>	Use Different SIP Ports:	<input type="text" value="Disabled"/>
User Priority:	<input type="text" value="0"/>	RTP Collision Detection:	<input type="text" value="Enabled"/>
Synchronization:	<input type="text" value="Enabled"/>	Always reboot on check-sync:	<input type="text" value="Disabled"/>
<b>DHCP Options</b>		Local SIP port:	<input type="text" value="5060"/>
Plug-n-Play:	<input type="text" value="Enabled"/>	SIP ToS/QoS:	<input type="text" value="0x68"/>
		RTP port:	<input type="text" value="50004"/>
		RTP port range:	<input type="text" value="40"/>
		RTP ToS/QoS:	<input type="text" value="0xB8"/>
<input type="button" value="Save and Reboot"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/>			

#### IP Settings

Function	Description
Static IP address	If the DHCP server is active, then the base station will procure the TCP/IP parameters automatically.

Function	Description
IP-address	Base station IP address
Subnet mask	Base station subnet mask.
Default gateway	IP address of the standard network gateway
DNS (Primary)	Main server to which a base station directs DNS queries.
DNS (Secondary)	Alternative DNS server.

### DHCP Options

The value "plug-n-play" should be set to "activated."

### NAT settings

The "NAT settings" area is used to make various settings regarding the use of a STUN server. A STUN server makes it possible for NAT clients to communicate behind a firewall with a VoIP provider outside of the local network.

### SIP/RTP settings

Function	Description
Local SIP port:	Standard port number value: 5060
SIP ToS/QoS:	Priority of call trigger signal transmission based on the ToS byte's two IP layers.
RTP port:	The port used for RTP audio streaming. Standard port number value: 50004.
RTP port range	Number of ports that can be used for RTP audio streaming. Default value: 40
RTP-ToS/QoS:	RTP transmission priority based on ToS byte IP layer.

### 1.5.3.3 Management

The management settings are subdivided into the following areas: "Settings", "Configuration" and "Syslog/SIP Log".

#### Management Settings

Base Station Name:

**Settings**

Management Transfer Protocol:

HTTP Management upload script:

HTTP Management username:

HTTP Management password:

Enable Automatic Prefix:

Set Maximum Digits of Internal Numbers:

Set Prefix for Outgoing Calls:

**Configuration**

Configuration Server Address:

Configuration File Download:

Base Specific File:

Multi Cell Specific File:

DHCP Controlled Config Server:

DHCP Custom Option:

DHCP Custom Option Type:

**Syslog/SIP Log**

Upload of SIP Log:

SIP Log Server Address:

Syslog Level:

Syslog Server IP Address:

Syslog Server Port:

Function	Description
Base Station	Option to enter a name for the base station.
Management Transfer Protocol	The protocol that should be used for uploading/downloading the configuration file / firmware file.

Function	Description
HTTP management upload script:	The server folder or the path where the configuration file is located.
HTTP management username	Username for accessing the configuration server
HTTP management password	Password for accessing the configuration server.
Configuration Server Address:	Option to enter the configuration server's IP address.
SIP Log Server Address	Option to enter the IP address of the server on which the SIP log file should be saved.
Upload of SIP log	Select "activate" if SIP debug notifications should be saved to the configuration server.
Syslog server IP Address:	IP address of the server on which the DECT IP system's log file should be saved.
Syslog Server Port:	Entry of released server port.
Syslog Level	Selection of various logging levels.

### Firmware update

In this area, you can configure updates on base stations.

Function	Description
Firmware update server address	IP address of the server on which firmware update files have been saved.
Firmware path	Storage location of the firmware update files .
Required Version	The "Required Version" field is used to indicate the firmware version that should be loaded onto the device (handsets) indicated under "type".

### Firmware Update Settings

Firmware update server address:

Firmware path:

Picture path:

Type	Required version	Required branch	Startup picture	Background picture
D510	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
D565	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Update Base Stations**

Update this Base Station only  
 Update all Base Stations

Required version	Required branch
<input type="text"/>	<input type="text"/>

### How to update software of base stations and/or headsets

1. In the field "Firmware Update Server Address", enter the IP address of the TFTP server, on which the update files for base stations and handsets are stored.



You can find a TFTP server for free download here: [TFTP-Server](#)

2. In the "firmware path" field, enter the root path for the sub-paths in which update files are located. Paths have to be created with the following designations for the update files of the base stations and the handsets:
  - Path „8660“ („\rtx\fw\8660\“): this is where the update files are stored for the base stations.
  - Path „DECT4024“ („\rtx\fw\4024\“): this is where the update files are stored for the repeater.
  - Path „8630“ („\rtx\fw\8630\“): this is where the update files are stored for SwyxPhone D510.
  - Path „8830“ („\rtx\fw\8830\“): this is where the update files are stored for SwyxPhone D565.
3. Enter the version number of the software that should be used to update the handset software. All types of handsets are listed.



**During the update, all handsets must be placed in the charging station!**

4. Save the data for updating handsets by clicking on "Save".
5. For base station update, select whether you would like to update only this base station or all of them.
6. In the field "Required version," enter the firmware version that should be used to update the base station(s).
7. To launch the update with the settings that have been made, click on "start update."

Base stations and handsets will be updated.

### Time

Save any time server settings under "Time Settings". The time server is used to synchronize a multi-cell system. It also stipulates the time displayed in logs and on SIP trace information pages, as well as on handset displays.

Function	Description
Time server	IP address of the NTP server.
Refresh time (h)	Time frame in hours for updating the time server.
Time zone	Local time in GMT format.

To apply settings, click on "Save and Reboot."

Should you not reach a time server on the network, you can click on "PC time" to apply the time on your PC for one time. When restarting the base station, however, that time information will be deleted.

### Country

Here, you can select the system's location and the language of the web interface in order to configure standard values specific to the region. Per default the time zone and the summertime settings of your country will be used.

After selecting the country and the language, click on "Save and Reboot".

### Configuration

In the "configuration" area, you'll find a view of the configuration made in text form. Here, settings can be saved in a file (\*.cfg) for later use. Additionally, a configuration file that has already been created can be loaded.



**Passwords are not stored in configuration data when saving. They will have to be set again!**

### How to save configuration settings in a file (\*.cfg)

1. Select the option "Management | Configuration".  
Current settings will be displayed in text form.
2. Click on "Save."  
The "save as..." dialog will open, and you can determine a location for saving.
3. The file "settings.cfg" is loaded for further use in your download path.

### How to load a configuration file

1. Select the option "Management | Configuration".
2. Click on "Browse..." and select the desired configuration file (\*.cfg).
3. Click on „Load."
4. The settings will be applied.

### Syslog

In the "Syslog" area, system log files can viewed.

### SIP Log

In the "SIP log" area, SIP log files can be viewed.

### 1.5.3.4 Security

Under "Security", enter username and password of the web interface for the configuration of the base station and/or the system.

### 1.5.3.5 Global Phonebook

Here, you can set the storage location for telephone book files being imported. Clicking on "load" imports telephone book files.



When importing telephone numbers, the entire telephone book is re-written. It is not possible to attach contacts. The imported contacts are not displayed on the base station's configuration interface.

#### How to import contacts from an HTTP or TFTP server via a telephone book file

1. Click on "Management."
2. In the field "Management Transfer Protocol," select "HTTP" or "TFTP" as needed.
3. Click on "Save."
4. Click on „Global phonebook”.
5. Enter the HTTP or TFTP server's IP address in the "server" field.
6. Add a path on the HTTP or TFTP server with the name "Directory" and save the CSV file to be imported there.
7. Go back to the option "Global phonebook" and enter the CSV file's name in the "file name" field.
8. Click on "Save."
9. Restart the base station.



The CSV file should have semicolon for separation (e.g. "name; dial number"). No blanks in the number field are allowed!

#### How to import contacts from an LDAP server via a telephone book file

1. Click on „Global phonebook”.
2. Select "LDAP server" in the "location:" field.
3. Enter the LDAP server's IP address in the "server" field.
4. Enter the LDAP server's port in the "port" field.
5. Enter the desired data base (e.g. dc=meta) in the "Sbase" field.
6. In the "bind" field, enter the user name for authentication on the LDAP server.

7. Enter password, as applicable.
8. Click on "Save."

#### How to import contacts by selecting a phonebook file

1. Click on „Global phonebook”.
2. In the "file name:" field, select the CSV file with the contact information by clicking on "Browse..."
3. Click on "load" to load the file.
4. Restart the base station.



The CSV file's name is limited to 31 characters.

### 1.5.3.6 Multicell

In the "multi-cell settings" area, you can make the multi-cell configuration for using specific base stations.

#### Multicell status

Function	Description
System Information	Status of the multi-cell system.
Last package received from IP	IP address of the last base station synchronized or of the repeater + time of synchronization.

#### Settings for this base

Function	Description
Multi-cell system	This option has to be activated in order to activate the SwyxDECT 500's multi-cell modus.
System chain ID	ID that is unique for a specific multi-cell
Synchronization time (s)	The duration in seconds after which links from base stations are synchronized with each other.



Function	Description
Data Synch.	<p>DECT base stations are synchronized among each other over the network. There are two types of synchronization that can be chosen:</p> <p><b>Multi-cast:</b> Simultaneous distribution of synchronization data to all connected base stations. This function must be supported by network hardware (switches). If this is not the case, then use "peer-to-peer."</p> <p><b>Peer-to-peer:</b> In "peer-to-peer," another base station is indicated as a synchronization target for each base station. All base stations are synchronized on the system.</p>

5. Select "Connections" with the navigation key and confirm with "Selection".
6. Select "registration" and confirm with "selection."
7. Enter the 4-digits number (AC) and confirm with "OK".  
The telephone is logged-on to the base station.



The log-on mode will not be deactivated automatically. To avoid unauthorized access, deactivate the mode. In the web interface, click on the link "Extensions | Stop log-on".

### 1.5.3.7 Log out

Clicking on "logout" will log you out of the web interface.

## 1.6 Log on SwyxPhone D510/SwyxPhone D565 to SwyxDECT 500

You can log the SwyxPhone D510 onto the base station while the base station is in log-on mode. Please keep at hand the 4-digits number (Authorization Code), which is entered in the field "AC" under the menu bar "Extensions | Add Extensions (or edit Extensions)".

### How to connect SwyxPhone D510 with SwyxDECT 500

If the base station is already in log-on mode, then proceed to step (4); otherwise, start with step (1).

1. Select the "Extensions" option within the web interface.
2. Select an extension by setting a check mark.
3. Then click on "Register handset(s)".  
The log-on mode is enabled.
4. Press the SwyxPhone D510's menu key.

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