# SPEED TOUCH 350i

## CLI Reference Guide

### ADSL Modem for ISDN

ALCATEL

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# Contents

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# Preface

Welcome to the **Alcatel SpeedTouch™ 350i Command Line Interface Reference Guide** !

This Reference Guide aims to give the fastidious user a concise, practical and easy to use document for configuring the **SpeedTouch™ 350i** via its character based Command Line Interface.

Although the **SpeedTouch™ 350i** Web interface is adequate enough for most users, access via the CLI may be still important for advanced and detailed configuration and troubleshooting.

This CLI Reference Guide covers the CLI commands of the following Alcatel DSL SpeedTouch product:

▶ **Alcatel SpeedTouch™ 350i**

The Reference Guide consists of three main parts:

▶ **Part 1 : CLI Navigation**

This part is meant to make the user familiar with the use and operation of the **SpeedTouch™ 350i** CLI. Next to describing the various access methods to the CLI, this part will describe in brief some general manipulations to navigate through and to perform some operations on the CLI.

▶ **Part 2 : CLI Command Description**

This part forms the main part of this Reference Guide. Here all available CLI commands of the **SpeedTouch™ 350i** products are alphabetically described per group selection.

Each command is described in a systematic manner:

- The full name of the CLI command (including the group selection)

- A short description of the CLI command, if needed completed by a description of the possible impact on the user and/or the **SpeedTouch™ 350i**

- The syntax of the command with a description of each parameter

- An example to demonstrate the use of the CLI command

- A list of related CLI commands.

▶ **Part 3 : CLI Command Index**

This part allows the user to look up a command alphabetically in its incomplete form.

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▶ **Updates**

Due to the continuous evolution of the Alcatel DSL technology, existing products are regularly upgraded. Alcatel documentation changes accordingly.

For more information on the newest technological changes and documents, please consult the Alcatel web site at following URL:

*http://www.alcatel.com*

*http://www.alcateldsl.com*

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# CLI Navigation

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# Accessing the Command Line Interface

End-users can access the Command Line Interface via a Telnet session. However, this requires that TCP/IP connectivity exists between the host from which the Telnet session is opened and the **SpeedTouch™350i**.

## Access via a Telnet Session

As soon a session to the CLI is opened, the **SpeedTouch™350i** banner pops up, followed by the CLI prompt.

In case the **SpeedTouch™350i** is protected by a System password authentication will be required before access is granted.

The following figure shows an example of the **SpeedTouch™350i** banner after opening a Telnet session and authentication.

EXAMPLE:

```
/home/doejohn{1}$ telnet 10.0.0.138
Trying 10.0.0.138...
Connected to 10.0.0.138.
Escape character is '^]'.
User :
SpeedTouch (00-90-D0-00-01-23-45)
Password : ######
------------------------------------------------------------------------------
*
*                        _____
*                   ___/_____/\
*                  /       /\\      Alcatel Speed Touch(TM)350i
*            _____/__      /  \\    ADSL Modem for ISDN
*          _/      /\_____/___ \         Version R3.2
*         //      /  \       /\ \
*       _____//_____/     \     / _\/____   Copyright (c) 1999-2001 Alcatel
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*        /____/    \  \  /
*         \      \  /___\/
*          \____\/
*
------------------------------------------------------------------------------
=>
```

# Navigation and Manipulation

Manipulation commands are commands that manipulate operations on the command line, for example changing the command group, go to the beginning of the command line, go to the end of the command line, etc.

## Command group Navigation

From top level, you can change to a command group by executing the name of the desired command group.
To obtain a list of all available command groups, execute **help** from the top level.

EXAMPLE:

```
=>help
Following command groups are available :
config        system        software      ip            phonebook
pptp          bridge        atmf          td            dns
dhcp

=>
```

To return to top level, execute **exit**.

EXAMPLE:

```
=>phonebook
[phonebook]=>
[phonebook]=>exit
=>
```

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# The Help Command

Execute **help** from top level to list all available command groups for the **SpeedTouch**™ **350i**.

EXAMPLE (**SpeedTouch**™ **Pro**):

```
=>help
Following command groups are available :
config       system       software     ip           phonebook
pptp         bridge       atmf         td           dns
dhcp

=>
```

You can execute the **help** command from each command group selection. This results in a list of the available commands (and nested command groups, if available) in this particular command group.

EXAMPLE:

```
=>phonebook
[phonebook]=>
[phonebook]=>help
Following commands are available :
list         add          delete       save         flush
load         autolist     help         exit

[phonebook]=>
```

Executing e.g. **help phonebook** from top level gives the same result as executing **help** from the phonebook command group selection.

EXAMPLE:

```
=>phonebook help
Following commands are available :
list         add          delete       save         flush
load         autolist     help         exit

=>
```

Entering **help** followed by a specific command, e.g. **help phonebook add** (starting from top level) or **help add** (e.g. on the phonebook command group selection) results in a description of the syntax for the command.

EXAMPLE:

```
=>help phonebook add
add : Adds a phonebook entry

   name=<string>
   addr=<vp*vc>
   type=<bridge|ppp|cip|pptp>

=>
```

# Command Completion

The CLI features command completion, which means that when starting to enter a command it can be completed by pressing the **"Tab"** key.

For example, entering **a** at the firewall command group selection, followed by a **"Tab"** stroke results in the full **assign** command being completed. Entering **firewall a** from top level gives the same result.

For the completion to be successful, the part to be added must be unique. Completion works for the command groups, for the commands, for the options, but *not* for values.

EXAMPLE:

```
=>phonebook
[phonebook]=>d "Tab"
[phonebook]=>delete
```

# Going to the beginning or end of the Command Line

Go to the beginning of the Command Line by pressing **"Ctrl+A"**; to go to the end of the Command Line press **"Ctrl+E"**.

In the following example, the first ‖ indicates the position of the cursor after pressing **"Ctrl+A"**, the second ‖ the position of the cursor after pressing **"Ctrl+E"**.

EXAMPLE:

```
=>‖list‖
```

# Breaking off Commands

You can break off a command by pressing **"Ctrl+G"**. This can be useful in a situation where a user is prompted to enter a value which it does not know and wants to abort the command. Instead of being prompted over and over again for the same value, this allows to break of the command.

In the example below **"Ctrl+G"** is pressed after the third prompt 'name ='. The command is broken of and the user returns to the command line.

EXAMPLE:

```
[phonebook]=>add
name =
name =
name =  "Ctrl+G"
[phonebook]=>
```

# History of Commands

To retake previous commands press the up arrow **" ↑ "** and come back to more recent commands with the down arrow **" ↓ "**. Press **"Enter (↵)"** to select and execute the retaken command.

EXAMPLE:

```
=>phonebook
[phonebook]=>list
Name          address       type        usage
Br1           8*35          bridge      configured
Br2           8*36          bridge      free
Br3           8*37          bridge      free
Br4           8*38          bridge      free
RELAY_PPP1    8*48          pptp        configured
RELAY_PPP2    8*49          pptp        configured
RELAY_PPP3    8*50          pptp        configured
RELAY_PPP4    8*51          pptp        configured

[phonebook]=>  " ↑ "
[phonebook]=>:phonebook list
```

# Command Line Interface Top Level Structure

The following command groups are available:

- ▶ **bridge**
- ▶ **config**
- ▶ **dhcp**
- ▶ **dns**
- ▶ **ip**
- ▶ **phonebook**
- ▶ **pptp**
- ▶ **software**
- ▶ **system**
- ▶ **td**

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# Command Line Interface Commands

All CLI commands are commands that operate on, or configure, the **SpeedTouch**™ **350i**.

You can execute these commands from top level, preceded by the name of the command group from which the command should be executed (e. g. **phonebook list**).

You can also execute the commands from the command group itself, using the reduced form of the command (e.g. **list** at the phonebooke command group selection).

EXAMPLE:

```
=>phonebook autolist
8.35
8.36
=>phonebook
[phonebook]=>autolist
8.35
8.36
[firewall]=>
```

Instead of entering a completely built-up command with all its parameters, you can also enter just the command itself, without its parameters. After this you are prompted to complete the command with the required and the optional parameters. For the optional parameters you can simply press enter without giving a value.

The example below is the equivalent of '**phonebook add name=Test addr=8\*33 type=pptp**'. To break of such incomplete command press **"Ctrl+G"**.

EXAMPLE:

```
=>phonebook add
name=Test
addr=8*33
type=pptp
=>
```

# Direct FTP Access

## The SpeedTouch™ 350i File System

The **SpeedTouch™350i** permanent storage, further referred to as 'file system', exists of nonvolatile memory responsible for storing, retrieving and maintaining the **SpeedTouch™350i** software image(s) and configuration files.

The file system of the **SpeedTouch™350i** is accessible via the FTP transport protocol. This allows to transfer the **SpeedTouch™350i** software image(s) and/or configuration profile files.

Moreover, via FTP's `quote site` command you can execute CLI commands from the FTP prompt.

Proceed as indicated in the exmaple below to open an FTP session to the **SpeedTouch™350i** file system:

EXAMPLE:

```
/home/doejohn{1}$ftp 10.0.0.138
Connected to 10.0.0.138
220 Inactivity timer = 120 seconds. Use 'site idle <secs>' to change.
Name (10.0.0.138:doejohn):
331 SpeedTouch (00-90-D0-01-02-03) User 'doejohn' OK. Password required.
Password : ######
330 OK
ftp>
```

## SpeedTouch™ 350i File System Structure

The files system features a tiny multilevel directory structure with a single root node called *'root'* and two leaf nodes called *'active'* and *'dl'*.

The *'root'* contains next to the two subdirectories *'active'* and *'dl'* all necessary files for the **SpeedTouch™350i** to boot correctly.

The *'active'* subdirectory always contains the software image in execution. The *'active'* subdirectory may also contain one or more *.ini* configuration files. These files are created seperately via the CLI **save** command (per command group) or as a complete set of configuration files via the web page 'Save all' button or the CLI **:config save** command.

In other words, after each *'Save all'*, or *config save* call, the configuration files present in the *'active'* subdirectory reflect the current configuration of the **SpeedTouch™350i**.

The *'dl'* directory contains the dormant software image, if present.

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# SpeedTouch™ 350i File System Access Rights

Following access rights apply on the file system:

▶ **'root' Directory**

Listing of *'root'* directory files (**dir**)

▶ **'active' Subdirectory**

Listing of *'active'* subdirectory files (**dir**)

FTP **(m)get** of (multiple) *'active'* subdirectory files

▶ **'dl' Subdirectory**

Listing of *'dl'* subdirectory files (**dir**)

FTP **(m)get** of (multiple) *'dl'* subdirectory files

FTP **(m)put** of (multiple) *'dl'* subdirectory files

FTP **(m)delete** of (multiple) *'dl'* subdirectory files..

# FTP File Transfer

To allow correct file transfers the transfer mode must be set to "binary". Moreover, it is suggested to turn on the hashing option to be able to see how the file transfer proceeds:

EXAMPLE:

```
/home/doejohn{1}$ftp 10.0.0.138
Connected to 10.0.0.138
220 Inactivity timer = 120 seconds. Use 'site idle <secs>' to change.
Name (10.0.0.138:doejohn):
331 SpeedTouch (00-90-D0-01-02-03) User 'doejohn' OK. Password required.
Password : ######
330 OK
ftp>
ftp>bin
200 TYPE is now 8-bit binary
ftp>
ftp>hash
200Hash mark printing on (8192 byts/hash mark).
ftp>
```

# Customization, Back-up and Restore of Configuration Files

For more information on the possibilities of the **Alcatel SpeedTouch**™**350i**, configuration files and file system, please check the Alcatel support pages at:

> ***http://www.alcatel.com***
>
> ***http://www.alcateldsl.com***

Or contact your local Alcatel Sales representative.

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# CLI Command Description

# 1   Bridge Commands

**bridge (to access the Bridge level)**
**bridge config**
**bridge flush**
**bridge load**
**bridge macadd**
**bridge macdelete**
**bridge maclist**
**bridge portadd**
**bridge portconfig**
**bridge portdelete**
**bridge portlist**
**bridge save**

## *bridge config*

Show/set bridge aging policy.

SYNTAX:

| | |
|---|---|
| *bridge config* | *[age =  <number {10 - 100000}>]* |

| | | |
|---|---|---|
| *[age]* | A number between 10 and 100000 (seconds). Represents the lifetime of a dynamically learned MAC address. By default the aging timer is 300 seconds. | OPTIONAL |

EXAMPLE:

```
=>bridge config
Aging : 300
=>bridge config age=600
=>bridge config
Aging : 600
=>
```

# *bridge flush*

Flush complete bridging configuration.

The flush command does not impact previously saved configurations.

SYNTAX:

```
bridge flush
```

EXAMPLE:

```
=>bridge portlist
0        OBC                   state:  forwarding
         RX bytes: 75783       frames: 572
         TX bytes: 82768372     frames: 341221     dropframes:  0

1        eth0                  state:  forwarding
         RX bytes: 156344216   frames: 5899238
         TX bytes: 75689       frames: 425         dropframes:  5558017

2        Br1                   state:  forwarding
         vpi: 8                vci: 35             protocol: vc-muc
         fcs: off              compression: off
         RX bytes: 75          frames: 12
         TX bytes: 30246       frames: 91          dropframes:  0
=>bridge flush
=>bridge portlist
0        OBC                   state:  forwarding
         RX bytes: 75783       frames: 572
         TX bytes: 82768372     frames: 341221     dropframes:  0

1        eth0                  state:  forwarding
         RX bytes: 156344216   frames: 5899238
         TX bytes: 75689       frames: 425         dropframes:  5558017
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **bridge load** | Load saved or default bridge configuration. |
| **bridge save** | Save current bridge configuration. |

# *bridge load*

Load  saved (or default) bridge configuration.

SYNTAX:

| *bridge load* | *[{saved\|defaults}]* |
|---|---|

| *bridge load* | Load saved bridge configuration. |
|---|---|
| *bridge load saved* | Load saved bridge configuration. |
| *bridge load defaults* | Load default bridge configuration. |

RELATED COMMANDS:

| **bridge flush** | Flush complete bridge configuration. |
|---|---|
| **bridge save** | Save current bridge configuration. |

**A L C A T E L**

## *bridge macadd*

Add a static MAC address to the filtering database. Allows to manually add static addresses, which should normally be dynamically discovered by the bridge itself.

SYNTAX:

| *bridge macadd* | *port = <name>*<br>*hwaddr = <hardware-address>* |
|---|---|
| *intf* | The name of the bridge interface to add the MAC address for. | REQUIRED |
| *hwaddr* | The MAC address of the new entry. | REQUIRED |

EXAMPLE:

```
=>bridge maclist
00:90:d0:01:02:03 --   static,   OBC
ff:ff:ff:ff:ff:ff --   static,   OBC
01:80:c2:00:00:00 --   static,   OBC
01:80:c2:00:00:01 --   static,   OBC
...
01:80:c2:00:00:10 --   static,   OBC
00:01:42:5f:7d:81 --   dynamic,    eth0,   597 seconds
00:50:8b:31:cc:aa --   dynamic,    eth0,   513 seconds
08:00:20:c1:9a:12 --   dynamic,    eth0,   600 seconds
...
=>bridge macadd port=eth0 hwaddr=00:80:9f:01:23:45
=>bridge maclist
00:90:d0:01:02:03 --   static,   OBC
ff:ff:ff:ff:ff:ff --   static,   OBC
01:80:c2:00:00:00 --   static,   OBC
01:80:c2:00:00:01 --   static,   OBC
...
01:80:c2:00:00:10 --   static,   OBC
00:80:9f:01:23:45 --   permanent, OBC
00:01:42:5f:7d:81 --   dynamic,    eth0,   598 seconds
00:50:8b:31:cc:aa --   dynamic,    eth0,   379 seconds
08:00:20:c1:9a:12 --   dynamic,    eth0,   600 seconds
00:08:c7:c3:5f:fc --   dynamic,    eth0,   215 seconds
...
=>
```

RELATED COMMANDS:

**bridge macdelete**        Delete a MAC address entry.
**bridge maclist**        Show current filtering database.

## *bridge macdelete*

Remove a MAC address from the filtering database.

SYNTAX:

| *bridge macdelete* | *hwaddr = <hardware-address>* | |
|---|---|---|
| *hwaddr* | The MAC address of the entry to delete. | REQUIRED |

EXAMPLE:

```
=>bridge maclist
00:90:d0:01:02:03 --    static,   OBC
ff:ff:ff:ff:ff:ff --    static,   OBC
01:80:c2:00:00:00 --    static,   OBC
01:80:c2:00:00:01 --    static,   OBC
...
01:80:c2:00:00:10 --    static,   OBC
00:80:9f:01:23:45 --    permanent, OBC
00:01:42:5f:7d:81 --    dynamic,    eth0,   597 seconds
00:50:8b:31:cc:aa --    dynamic,    eth0,   513 seconds
08:00:20:c1:9a:12 --    dynamic,    eth0,   600 seconds
...
=>bridge macdelete hwaddr=00:80:9f:01:23:45
=>bridge maclist
00:90:d0:01:02:03 --    static,   OBC
ff:ff:ff:ff:ff:ff --    static,   OBC
01:80:c2:00:00:00 --    static,   OBC
01:80:c2:00:00:01 --    static,   OBC
...
01:80:c2:00:00:10 --    static,   OBC
00:01:42:5f:7d:81 --    dynamic,    eth0,   598 seconds
00:50:8b:31:cc:aa --    dynamic,    eth0,   379 seconds
08:00:20:c1:9a:12 --    dynamic,    eth0,   600 seconds
00:08:c7:c3:5f:fc --    dynamic,    eth0,   215 seconds
...
=>
```

RELATED COMMANDS:

| **bridge macadd** | Add a static MAC address entry. |
|---|---|
| **bridge maclist** | Show current filtering database. |

## *bridge maclist*

Show current MAC address filtering database.

SYNTAX:

| *bridge maclist* |
| --- |

EXAMPLE:

```
=>bridge maclist
00:90:d0:01:02:03 --   static,    OBC
ff:ff:ff:ff:ff:ff --   static,    OBC
01:80:c2:00:00:00 --   static,    OBC
01:80:c2:00:00:01 --   static,    OBC
...
01:80:c2:00:00:10 --   static,    OBC
00:80:9f:24:ab:cf --   static,    OBC
00:01:42:5f:7d:81 --   dynamic,     eth0,   598 seconds
00:50:8b:31:cc:aa --   dynamic,     eth0,   379 seconds
08:00:20:c1:9a:12 --   dynamic,     eth0,   600 seconds
00:08:c7:c3:5f:fc --   dynamic,     eth0,   215 seconds
08:00:20:a8:f4:34 --   dynamic,     eth0,   600 seconds
08:00:20:83:b7:26 --   dynamic,     eth0,   600 seconds
00:10:83:1b:13:18 --   dynamic,     eth0,   599 seconds
...
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **bridge macadd** | Add a static MAC address entry. |
| **bridge macdelete** | Delete a MAC address entry. |

# *bridge portadd*

Create a bridge interface.

SYNTAX:

| *bridge portadd* | *dest = <vp\*vc\|name>*<br>*[proto = {vc-mux\|llc}]*<br>*[vc_mux_fcs = {off\|on}]* |
|---|---|

| *dest* | The destination address for the new interface.<br>Typically a phonebook entry. | REQUIRED |
|---|---|---|
| *[encaps]* | The type of encapsulation to be used for this bridge interface. Choose between:<br>▪   llc/snap<br>▪   vcmux | OPTIONAL |
| *[vc_mux_fcs]* | Whether or not to include the Ethernet FCS in the packet header on the WAN side. Choose between:<br>▪   off<br>▪   on | OPTIONAL |

EXAMPLE:

```
=>bridge portlist
0         OBC                   state:  forwarding
          RX bytes: 75783       frames: 572
          TX bytes: 82768372     frames: 341221    dropframes:  0

1         eth0                  state:  forwarding
          RX bytes: 156344216  frames: 5899238
          TX bytes: 75689       frames: 425        dropframes:  5558017
=>bridge portadd dest=Br1 proto=vc-mux vc_mux_fcs=on
=>bridge portlist
0         OBC                   state:  forwarding
          RX bytes: 75783       frames: 572
          TX bytes: 82768372     frames: 341221    dropframes:  0

1         eth0                  state:  forwarding
          RX bytes: 156344216  frames: 5899238
          TX bytes: 75689       frames: 425        dropframes:  5558017

2         Br1                   state:  forwarding
          vpi: 8                vci: 35            protocol: vc-muc
          fcs: on               compression: off
          RX bytes: 0           frames: 0
          TX bytes: 0           frames: 0          dropframes:  0
=>
```

RELATED COMMANDS:

| **bridge portdelete** | Delete a bridge interface. |
|---|---|
| **bridge portconfig** | Configure a bridge interface. |
| **bridge portlist** | Show current bridge configuration. |

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# *bridge portconfig*

Configure a bridge interface.

SYNTAX:

| *bridge portconfig* | *port = <name>*<br>*[state = <{disabled\|learning\|forwarding}>]* |
|---|---|

| *port* | The name of the bridge interface to configure. | REQUIRED |
|---|---|---|
| *[state]* | The bridge portstate for this interface. Choose between:<br>▪   disabled<br>▪   learning<br>▪   forwarding | OPTIONAL |

EXAMPLE:

```
=>bridge portlist
0       OBC                     state:  forwarding
        RX bytes: 75783         frames: 572
        TX bytes: 82768372       frames: 341221     dropframes:  0

1       eth0                    state:  forwarding
        RX bytes: 156344216 frames: 5899238
        TX bytes: 75689         frames: 425         dropframes:  5558017

2       Br1                     state:  forwarding
        vpi: 8                  vci: 35             protocol: vc-muc
        fcs: on                 compression: off
        RX bytes: 0             frames: 0
        TX bytes: 0             frames: 0           dropframes:  0
=>bridge portconfig port=Br1 state=learning
=>bridge portlist
0       OBC                     state:  forwarding
        RX bytes: 75783         frames: 572
        TX bytes: 82768372       frames: 341221     dropframes:  0

1       eth0                    state:  forwarding
        RX bytes: 156344216 frames: 5899238
        TX bytes: 75689         frames: 425         dropframes:  5558017

2       Br1                     state:  learning
        vpi: 8                  vci: 35             protocol: vc-muc
        fcs: on                 compression: off
        RX bytes: 0             frames: 0
        TX bytes: 0             frames: 0           dropframes:  0
=>
```

RELATED COMMANDS:

| **bridge portadd** | Create a bridge interface. |
|---|---|
| **bridge portdelete** | Delete a bridge interface. |
| **bridge portlist** | Show current bridge configuration. |

## *bridge portdelete*

Delete a bridge interface.

| *bridge portdelete* | *port = <name>* |
|---|---|

| *port* | The name of the interface name to delete. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>bridge portlist
0       OBC                     state:  forwarding
        RX bytes: 75783         frames: 572
        TX bytes: 82768372      frames: 341221    dropframes:  0

1       eth0                    state:  forwarding
        RX bytes: 156344216  frames: 5899238
        TX bytes: 75689         frames: 425       dropframes:  5558017

2       Br1                     state:  forwarding
        vpi: 8                  vci: 35           protocol:  vc-muc
        fcs: on                 compression: off
        RX bytes: 0             frames: 0
        TX bytes: 0             frames: 0         dropframes:  0
=>bridge portdelete port=Br1
=>bridge portlist
0       OBC                     state:  forwarding
        RX bytes: 75783         frames: 572
        TX bytes: 82768372      frames: 341221    dropframes:  0

1       eth0                    state:  forwarding
        RX bytes: 156344216  frames: 5899238
        TX bytes: 75689         frames: 425       dropframes:  5558017
=>
```

RELATED COMMANDS:

| **bridge portadd** | Create a bridge interface. |
|---|---|
| **bridge portconfig** | Configure a bridge interface. |
| **bridge portlist** | Show current bridge configuration. |

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## *bridge portlist*

Show all current bridge interfaces.

SYNTAX:

| *bridge portlist* |
| --- |

EXAMPLE:

```
=>bridge portlist
0       OBC                     state:  forwarding
        RX bytes:  75783        frames: 572
        TX bytes:  82768372      frames: 341221     dropframes:  0

1       eth0                    state:  forwarding
        RX bytes:  156344216  frames: 5899238
        TX bytes:  75689        frames: 425         dropframes:  5558017

2       Br1                     state:  forwarding
        vpi:  8                 vci: 35             protocol:  vc-muc
        fcs:  off               compression: off
        RX bytes:  75           frames: 12
        TX bytes:  30246        frames: 91          dropframes:  0
=>
```

DESCRIPTION:

'RX bytes' indicates the number of <u>R</u>eceived bytes, 'TX bytes' the number of <u>T</u>ransmitted bytes.  OBC is short for On Board Controller and indicates the physical bridge port.

RELATED COMMANDS:

| | |
| --- | --- |
| **bridge portadd** | Create a bridge interface. |
| **bridge portconfig** | Configure a bridge interface. |
| **bridge portdelete** | Delete a bridge interface. |

## *bridge save*

Save current bridge configuration.

SYNTAX:

| *bridge save* |
|---|

RELATED COMMANDS:

| **bridge flush** | Flush complete bridge configuration. |
|---|---|
| **bridge load** | Load saved or default bridge configuration. |

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# 2   Config Commands

**config (to access the Config level)**
**config erase**
**config flush**
**config load**
**config reset**
**config save**

## *config erase*

Physically remove all saved configurations.

SYNTAX:

| *config erase* |
| --- |

RELATED COMMANDS:

| **config flush** | Flush complete runtime configuration. |
| --- | --- |
| **config load** | Load complete saved or default configuration. |
| **config reset** | Flush current and optionally restore default configuration. |
| **config save** | Save complete runtime configuration. |

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## *config flush*

Flush complete current configuration without affecting saved configurations.

This combines all flush commands: **bridge flush, dhcp flush, dns flush, phonebook flush, pptp flush, system flush** and optionally **ip flush**.

SYNTAX:

| *config flush* | *[keep_ip = <{no\|yes}>]* |
|---|---|

| *[keep_ip]* | Keep current IP configuration (yes) or not (no). | OPTIONAL |
|---|---|---|
| | Not keeping the IP settings could cause lost IP connectivity in the LAN. | |
| | By default IP settings are preserved. | |

RELATED COMMANDS:

| **config erase** | Physically remove all saved configurations. |
|---|---|
| **config load** | Load complete saved or default configuration. |
| **config reset** | Flush current and optionally restore default configuration. |
| **config save** | Save current runtime configuration. |

## *config load*

Load complete saved or default configuration. Execute **config flush** prior to **config load**.

In case the saved configuration is loaded (defaults=no) this combines all load commands: **bridge load, dhcp load, dns load, phonebook load, pptp load, system load** and optionally **ip load**.

SYNTAX:

| *config load* | *[load_ip = <{no\|yes}>]*<br>*[config_set = {saved\|defaults}]* |
|---|---|

| *[load_ip]* | Load IP settings (yes) or not (no).<br>Not specifying thisd parameter preserves the current IP configuration. | OPTIONAL |
|---|---|---|
| *[config_set]* | Load saved configuration (saved) or default configuration (defaults).<br>Not specifying this parameter loads the saved configuration | OPTIONAL |

RELATED COMMANDS:

| **config erase** | Physically remove all saved configurations. |
|---|---|
| **config flush** | Flush complete runtime configuration. |
| **config reset** | Flush current and optionally restore default configuration. |
| **config save** | Save current runtime configuration. |

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## *config reset*

Flush current runtime configuration and restore factory default configuration.  Optionally the runtime, saved IP configuration can be preserved.

SYNTAX:

| *config reset* | *[keep_ip = <{no\|yes}>]* |
|---|---|

| *[keep_ip]* | Keep IP settings (yes) or not (no). | OPTIONAL |
|---|---|---|
| | Not keeping the IP settings could cause lost IP connectivity in the LAN. | |

RELATED COMMANDS:

| **config erase** | Physically remove all saved configurations. |
|---|---|
| **config flush** | Flush complete current configuration. |
| **config load** | Load complete saved or default configuration. |
| **config save** | Save current runtime configuration. |

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## *config save*

Save all existing configurations and modifications entered by the user.

This combines all save commands: **bridge save, config save, dhcp save, dns save, ip save, phonebook save, pptp save,** and **system save**.

SYNTAX:

| *config save* |
| --- |

RELATED COMMANDS:

| **config erase** | Physically remove all saved configurations. |
| --- | --- |
| **config flush** | Flush complete current configuration. |
| **config load** | Load complete saved or default configuration. |
| **config reset** | Flush current and optionally restore default configuration. |

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# 3   DHCP Commands

**dhcp add**
**dhcp client**
**dhcp clrstats**
**dhcp config**
**dhcp delete**
**dhcp flush**
**dhcp list**
**dhcp load**
**dhcp policy**
**dhcp save**
**dhcp start**
**dhcp stats**
**dhcp status**
**dhcp stop**
**dhcp troff**
**dhcp tron**

# *dhcp add*

Assign a static IP address to a host in the local network. This address is allocated on a permanent basis, and is excluded from the pool of addresses used by the **SpeedTouch**™ **350i** DHCP server.

SYNTAX:

| *dhcp add* | *clientid = <client-id>*<br>*addr = <ip-address>*<br>*[leasetime = <number>]*<br>*[hostname = <hostname>]* |
|---|---|

| *clientid* | The DHCP client's MAC address. | REQUIRED |
|---|---|---|
| *addr* | The IP address for this DHCP host. | REQUIRED |
| *[leasetime]* | A number between 0 and 1814400 (seconds).<br>Represents the preferred time the client wants to use an address.<br>By default the leasetime is 7200 seconds (2 hours).<br>Specifying −1 makes the lease permanent. | OPTIONAL |
| *[hostname]* | The hostname to add to the local DNS table for this host. | OPTIONAL |

EXAMPLE:

```
=>dhcp list
Leases:
Lease   0:   01:00:A0:24:AE:66:E1
        Hostname    = Default
        ip address : 10.0.0.8
        expires in : 1 h, 16 min, 20 sec
        lease is  being used.
Total size of table: 36, in use: 1 free: 97 %
=>dhcp add clientid=01:23:45:67:89:ab addr=10.0.0.1 leastime=60 hostname=NewLease
=>dhcp list
Leases:
Lease   0:   01:00:A0:24:AE:66:E1
        Hostname    = Default
        ip address : 10.0.0.8
        expires in : 1 h, 15 min, 32 sec
        lease is  being used.
Lease   1:   01:23:45:67:89:AB
        Hostname    = NewLease
        ip address : 10.0.0.1
        expires in : 23 sec
        lease is  being used.
Total size of table: 36, in use: 2 free: 94 %
=>
```

RELATED COMMANDS:

| **dhcp delete** | Delete a DHCP lease. |
|---|---|
| **dhcp list** | Show current DHCP leases. |

## *dhcp client*

Set the AutoDHCP client time-out in startup phase. Only applicable in AutoDHCP mode (See **dhcp policy** command).

SYNTAX:

| *dhcp client* | *timeout = <number>* |
|---|---|

| *timeout* | A number between 0 and 1814400 (seconds).<br>Represents the time to look for another DHCP server.<br>Specifying '-1' will make the timeout infinite: the **SpeedTouch**™ **350i**<br>will remain client.<br>By default the timeout is 20 seconds. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>dhcp status
DHCP Server Status:     Running
Current configuration:
      Address Range:  10.0.0.1 ... 10.255.255.254
.......
Start-up client parameters:
      Timeout:      20 sec
Tracing: off
Memory usage:
      Leases: total: 36, in use: 7 free: 80 %
=>dhcp client timeout=15
=>dhcp status
DHCP Server Status:     Running
Current configuration:
      Address Range: 10.0.0.1 ... 10.255.255.254
.......
Start-up client parameters:
      Timeout:      15 sec
Tracing: off
Memory usage:
      Leases: total: 36, in use: 7 free: 80 %
=>
```

RELATED COMMANDS:

| **dhcp policy** | Set DHCP policy. |
|---|---|
| **dhcp start** | Start DHCP server. |
| **dhcp status** | Show current DHCP server configuration. |
| **dhcp stop** | Stop DHCP server. |

# *dhcp clrstats*

Clear **SpeedTouch™350i** DHCP server statistics.

SYNTAX:

| *dhcp clrstats* |
|---|

EXAMPLE:

```
=>dhcp stats
DHCP server statistics:
Corrupted packet recv  :          0
DISCOVER               :                 9575
REQUEST                :        121
DECLINE                :          0
RELEASE                :          0
INFORM                 :         13
Pure BOOTP REQUESTS    :          2
Other message types    :          0
OFFERs sent            :       9552
ACKs sent              :        121
NAKs sent              :          0
Lease table got full   : no
Ping table got full    : no
Second DHCP server seen : no
=>dhcp clrstats
=>dhcp stats
DHCP server statistics:
Corrupted packet recv  :          0
DISCOVER               :                 0
REQUEST                :          0
DECLINE                :          0
RELEASE                :          0
INFORM                 :          0
Pure BOOTP REQUESTS    :          0
Other message types    :          0
OFFERs sent            :          0
ACKs sent              :          0
NAKs sent              :          0
Lease table got full   : no
Ping table got full    : no
Second DHCP server seen : no
=>
```

RELATED COMMANDS:

**dhcp stats**                         Show DHCP server statistics.

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# *dhcp config*

Set **SpeedTouch**™ **350i** DHCP server configuration.

Execute **dhcp status** to see the actual status and configuration.

SYNTAX:

| *dhcp config* | *[beginrange = <ip-address>]*<br>*[endrange = <ip-address>]*<br>*[netmask = <ip-address>]*<br>*[leasetime = <number>]*<br>*[gateway = <{ip-address\|0}>]*<br>*[dnsaddr = <{ip-address\|0}>]* |
|---|---|

| | | |
|---|---|---|
| *beginrange* | The lowest IP address in the DHCP address range to use for leasing. Default value of this parameter is 10.0.0.1. | OPTIONAL |
| *endrange* | The highest IP address in the DHCP address range to use for leasing. Default value of this parameter is 10.255.255.254. | OPTIONAL |
| *netmask* | The applicable netmask for the DHCP leases. | OPTIONAL |
| *leasetime* | A number between 0 and 1814400 (seconds).<br>Represents the time for which a client can use its dynamically allocated IP address.<br>By default the leasetime is 2 hours (7200 seconds).<br>Specifying −1 makes the lease permanent. | OPTIONAL |
| *gateway* | The IP address of the gateway for DHCP clients. | OPTIONAL |
| *dnsaddr* | The IP address of the DNS server for DHCP clients.<br>Entering '0' sets the **SpeedTouch** ™ **350i** as DNS server. | OPTIONAL |

EXAMPLE:

```
=>dhcp status
DHCP Server Status:     Running
Current configuration:
        Address Range:  10.0.0.1 ... 10.255.255.254
        Netmask:  255.0.0.0
        Lease time:  10800 seconds
        Gateway (default router): 10.0.0.138
        DNS server:  10.0.0.1
        Domain name: lan
Policies:
        Verify first:no
        Trust client:yes
        Spoofing:  no
        Start as client:  yes
Start-up client parameters:
        Timeout: 15 sec
Tracing:  off
Memory usage:
        Leases: total: 36, in use: 7 free: 80 %
=>dhcp  server  config  beginrange=172.16.0.2endrange=172.16.0.122netmask=255.0.0.0
    leasetime=21600 gateway=172.16.0.1dnsaddr=172.16.0.254
=>dhcp status
DHCP Server Status:     Running
Current configuration:
        Address Range:  172.16.0.2 ... 172.16.0.122
        Netmask:   255.0.0.0
        Lease time:   21600 seconds
        Gateway (default router): 172.16.0.1
        DNS server:  172.16.0.254
        Domain name: lan
Policies:
        Verify first:no
        Trust client:yes
        Spoofing:  no
        Start as client:  yes
Start-up client parameters:
        Timeout: 15 sec
Tracing:  off
Memory usage:
        Leases: total: 36, in use: 7 free: 80 %
=>
```

RELATED COMMANDS:

**dhcp status**                    Show current DHCP server configuration.

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## *dhcp delete*

Delete a DHCP lease.

SYNTAX:

| *dhcp delete* | *index = <number>* |
|---|---|

| *index* | The index number of the entry to be deleted. Execute **dhcp list** to see a list of the index numbers of all current DHCP leases. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>dhcp list
Leases:
Lease   0:   01:00:A0:24:AE:66:E1
        Hostname    = Default
        ip address : 10.0.0.8
        expires in : 1 h, 16 min, 20 sec
        lease is  being used.
Lease   1:   01:23:45:67:89:AB
        Hostname    = NewLease
        ip address : 10.0.0.1
        expires in : 23 sec
        lease is  being used.
Total size of table: 36, in use: 2 free: 94 %
=>dhcp delete index=1
=>dhcp list
Leases:
Lease   0:   01:00:A0:24:AE:66:E1
        Hostname    = Default
        ip address : 10.0.0.8
        expires in : 1 h, 15 min, 32 sec
        lease is  being used.
Total size of table: 36, in use: 1 free: 97 %
=>
```

RELATED COMMANDS:

| **dhcp add** | Add a DHCP lease manually. |
|---|---|
| **dhcp list** | Show current DHCP leases. |

# dhcp flush

Flush complete DHCP server configuration and dynamic leases.

The flush command does not impact previously saved configurations.

SYNTAX:

```
dhcp flush
```

EXAMPLE:

```
=>dhcp list
Leases:
Lease   2:    01:52:41:53:20:A0:1B:A7:EB:AD:3C:C0:01:01:00:00:00
        ip address:  10.0.7.79
        expires in:  11 sec
        lease is not being used.
Lease   0:    01:00:A0:24:AE:66:E1
        Hostname    = Default
        ip address : 10.0.0.8
        expires in : 1 h, 16 min, 20 sec
        lease is  being used.
Lease   3:    01:23:55:67:89:AB
        Hostname    = Tempo
        ip address : 10.0.0.1
        never expires!
        lease is not being used.
Total size of table: 36, in use: 3 free: 93 %
=>dhcp flush
=>dhcp list
No active leases
Total size of table: 36, in use: 0 free: 100 %
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **dhcp load** | Load saved or default DHCP server configuration and permanent leases. |
| **dhcp save** | Save current DHCP server configuration and permanent leases. |

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## *dhcp list*

List current DHCP leases, indicated by their index number.

SYNTAX:

| *dhcp list* |
| --- |

EXAMPLE OUTPUT:

```
=>dhcp list
Leases:
Lease   2:    01:52:41:53:20:50:6D:C0:40:02:32:C0:01:01:00:00:00
        ip address:  10.0.7.142
        expires in:  3 sec
        lease is not being used.
Lease   3:    01:52:41:53:20:A0:1B:A7:EB:AD:3C:C0:01:01:00:00:00
        ip address:  10.0.7.143
        expires in:  17 sec
        lease is not being used.
Lease   5:    01:52:41:53:20:F0:90:8F:09:E1:35:BE:01:01:00:00:00
        ip address:  10.0.7.144
        expires in:  55 sec
        lease is not being used.
Lease   6:    01:52:41:53:20:30:F4:89:5F:9B:44:C0:01:01:00:00:00
        ip address:  10.0.7.145
        expires in:  1 min, 6 sec
        lease is not being used.
Lease   0:    01:00:A0:24:AE:66:E1
        Hostname  = Default
        ip address:  10.0.0.8
        expires in: 1 h, 17 min, 21 sec
        lease is  being used.
Lease   4:    01:23:55:67:89:AB
        Hostname     = Tempo
        ip address : 10.0.0.1
        never expires!
        lease is not being used.
Total size of table: 36, in use: 6 free: 86 %
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **dhcp add** | Add a DHCP lease manually. |
| **dhcp delete** | Delete a DHCP lease. |
| **dhcp flush** | Delete complete DHCP server configuration and dynamic leases. |

# *dhcp load*

Load saved (or default) DHCP server configuration and permanent leases.

SYNTAX:

| *dhcp load* | *[{saved\|defaults}]* |
|---|---|

| *dhcp load* | Load saved DHCP server configuration and permanent leases. |
| *dhcp load saved* | Load saved DHCP server configuration and permanent leases. |
| *dhcp load defaults* | Load default DHCP server configuration. |

RELATED COMMANDS:

| **dhcp flush** | Flush current DHCP server configuration and dynamic leases. |
| **dhcp save** | Save DHCP server configuration and permanent leases. |

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## *dhcp policy*

Set **SpeedTouch**™ **350i** DHCP server policy.

SYNTAX:

| *dhcp policy* | *[verifyfirst = <yes\|no>]*<br>*[trustclient = <yes\|no>]*<br>*[spoofing]*<br>*[client = <yes\|no>]* |
|---|---|

| *[verifyfirst]* | Probe the network for conflicting IP addresses before giving a suggested IP address to the requesting DHCP client (yes) or not (no). | OPTIONAL |
|---|---|---|
| *[trustclient]* | Take the IP address suggested by a DHCP client into account (yes) or not (no). | OPTIONAL |
| *[spoofing]* | Do not use this parameter. | OPTIONAL |
| *[client]* | Allow the **SpeedTouch**™ **350i** DHCP server to present itself as DHCP client (AutoDHCP mode) at boot time and probe for another DHCP server on the network for some time before starting the DHCP server (yes) or immediately start the DHCP server (no). | OPTIONAL |

EXAMPLE:

```
=>dhcp status
DHCP Server Status:     Running
Current configuration:
.....
Policies:
       Verify first:no
       Trust client:yes
       Spoofing:  no
       Start as client:   yes
.....
=>dhcp policy verifyfirst=yes trustclient=no client=no
=>dhcp status
DHCP Server Status:     Running
Current configuration:
.....
Policies:
       Verify first:yes
       Trust client:no
       Spoofing:  no
       Start as client:   no
.....
=>
```

RELATED COMMANDS:

| **dhcp status** | Show current DHCP server configuration. |
|---|---|

## *dhcp save*

Save complete **SpeedTouch** ™ **350i** DHCP server configuration and permanent DHCP leases.

SYNTAX:

| *dhcp save* |
| --- |

RELATED COMMANDS:

| **dhcp flush** | Flush complete DHCP server configuration and dynamic leases |
| --- | --- |
| **dhcp load** | Load saved or default DHCP server configuration and permanent leases. |

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## *dhcp spoof*

Do not use this command.

## *dhcp start*

Start **SpeedTouch**™ **350i** DHCP server.

SYNTAX:

| *dhcp start* |
| --- |

EXAMPLE:

```
=>dhcp status
DHCP Server Status: Stopped
Current configuration:
.....
=>dhcp start
=>dhcp status
DHCP Server Status: Searching for server...
Current configuration:
.....
=>
=>dhcp status
DHCP Server Status: Running
Current configuration:
.....
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **dhcp status** | Show current DHCP server configuration. |
| **dhcp stop** | Stop DHCP server. |

# *dhcp stats*

Show **SpeedTouch**™ **350i** DHCP server statistics.

SYNTAX:

| *dhcp stats* |
| --- |

EXAMPLE OUTPUT:

```
=>dhcp stats
DHCP server statistics:
Corrupted packet recv  :           0
DISCOVER               :           9575
REQUEST                :       121
DECLINE                :         0
RELEASE                :         0
INFORM                 :        13
Pure BOOTP REQUESTS    :         2
Other message types    :         0
OFFERs sent            :      9552
ACKs sent              :       121
NAKs sent              :         0
Lease table got full   : no
Ping table got full    : no
Second DHCP server seen : no
=>
```

DESCRIPTION:

| | |
| --- | --- |
| *Corrupted packet recv* | Indicates the number of corrupted packets (not complaint to RFC2131) were received from the LAN. |
| *DISCOVER* | Indicates the number of DHCP server discovery packets were received from the LAN. These broadcasts are sent by potential DHCP clients to locate available DHCP servers. |
| *REQUEST* | Indicates the number of DHCP address lease requests were received from the LAN. |
| *DECLINE* | Indicates the number of DHCP address lease requests that were declined. |
| *RELEASE* | Indicates the number of DHCP address release requests that were received from DHCP clients. |
| *INFORM* | Indicates the number of information requests that were received from DHCP clients. |
| *Pure BOOTP requests* | Indicates the number of BOOTP requests that were received from the LAN. |
| *OFFERs sent* | Indicates the number of IP address offers were sent in reply to DHCP requests. |

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| | |
|---|---|
| *ACKs sent* | Indicates the number of ACKnowledgement replies were sent to successfully configured DHCP clients. |
| *NAKs sent* | Indicates the number of Not-AcKnowledgement replies were sent to wrongly configured DHCP clients. |
| *Lease table got full* | Indicates whether the maximum number of DHCP leases is reached or not. |
| *Ping table got full* | Indicates whether the history list of IP address pings got full or not. These pings are sent by the **SpeedTouch** ™ **350i** DHCP server to verify whether the IP address is already in use on the LAN or not. (**dhcp server policy** verifyfirst=yes) |
| *Second DHCP server seen* | Indicates whether a concurrent DHCP server was found on the LAN or not. |

RELATED COMMANDS:

**dhcp clrstats**                   Clear DHCP server statistics.

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## *dhcp status*

Show current DHCP server configuration.

SYNTAX:

| *dhcp status* |
|---|

EXAMPLE:

```
=>dhcp status
DHCP Server Status:     Client
Current configuration:
        Address Range:  10.0.0.1 ... 10.255.255.254
        Netmask:   255.0.0.0
        Lease time:   7200 seconds
        Gateway (default router): 10.0.0.1 (auto)
        DNS server:  10.0.0.1 (auto)
        Domain name: office.lan
Policies:
        Verify first:no
        Trust client:yes
        Spoofing:  no
        Start as client:   yes
Spoofing parameters:
        Failure timeout (!DoD): 4 sec
        Failure lease time (!DoD):60 sec
        Temp. lease time (DoD): 10 sec
Start-up client parameters:
        Timeout: 20 sec
Tracing:   off
Memory usage:
        Leases: total: 36, in use: 7 free: 80 %
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **dhcp stop** | Stop DHCP server. |
| **dhcp start** | Start DHCP server. |
| **dhcp policy** | Set DHCP server policy. |
| **dhcp spoof** | Set spoofing parameters. |

## *dhcp stop*

Stop **SpeedTouch**™ **350i** DHCP server.

SYNTAX:

| *dhcp stop* |
| --- |

EXAMPLE:

```
=>dhcp status
DHCP Server Status: Running
Current configuration:
.....
=>dhcp stop
=>dhcp status
DHCP Server Status: Stopped
Current configuration:
.....
=>
```

RELATED COMMANDS:

| **dhcp start** | Start DHCP server. |
| --- | --- |
| **dhcp status** | Show current DHCP server configuration. |

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## *dhcp troff*

Disable verbose console logging. No debug traces are generated anymore.

SYNTAX:

| *dhcp troff* |
|---|

EXAMPLE:

```
=>dhcp status
DHCP Server Status:     Running
Current configuration:
.....
Tracing:   on
.....
=>dhcp troff
=>dhcp status
DHCP Server Status:     Running
Current configuration:
.....
Tracing:   off
.....
=>
```

RELATED COMMANDS:

**dhcp status**          Show current DHCP server configuration.
**dhcp tron**            Enable verbose console logging.

## *dhcp tron*

Enable verbose console logging. Debug traces are generated.

SYNTAX:

| *dhcp tron* |
| --- |

EXAMPLE:

```
=>dhcp status
DHCP Server Status:    Running
Current configuration:
.....
Tracing:  off
.....
=>dhcp tron
=>dhcp status
DHCP Server Status:    Running
Current configuration:
.....
Tracing:   on
.....
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **dhcp status** | Show current DHCP server configuration |
| **dhcp troff** | Disable verbose console logging. |

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# 4  DNS Commands

**dns (to access the DNS level)**
**dns add**
**dns clear**
**dns clrstats**
**dns delete**
**dns domain**
**dns flush**
**dns fwdadd**
**dns fwddelete**
**dns fwdlist**
**dns fwdtable**
**dns list**
**dns load**
**dns nslookup**
**dns save**
**dns start**
**dns stats**
**dns status**
**dns stop**
**dns toutfwd**
**dns troff**
**dns tron**

# *dns add*

Add a static DNS entry for IP hosts who do not reveal their hostname in the DHCP request, or even worse, not support DHCP.

SYNTAX:

| *dns add* | *hostname = <string>*<br>*[addr = <ip-address>]* |
|-----------|------------------------------------------------------|

| *hostname* | The name of the IP host (without the (sub)domain name). | REQUIRED |
|------------|--------------------------------------------------------|----------|
| *[addr]*   | The IP address of the host (without mask).<br>In case this parameter is not specified the hostname applies to the **SpeedTouch**™ **350i** itself. | OPTIONAL |

EXAMPLE:

```
=>dns list
Domain: business.lan
Nr.        Hostname            IP Address
0          SpeedTouch         *.*.*.*
1          TestHost            10.0.0.140
2          HTTP_Server        10.0.0.8
Total Table Size: 73 entries
Amount used: 3 (4%)
=>dns add hostname=FTP_Server addr=10.0.0.7
=>dns list
Domain: business.lan
Nr.        Hostname            IP Address
0          SpeedTouch         *.*.*.*
1          TestHost            10.0.0.140
2          HTTP_Server        10.0.0.8
3          FTP_Server         10.0.0.7
Total Table Size: 73 entries
Amount used: 4 (5%)
=>
```

RELATED COMMANDS:

| **dns list**   | List current DNS entries. |
|----------------|---------------------------|
| **dns delete** | Delete a DNS entry.       |

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## *dns clear*

Delete current DNS entries.

SYNTAX:

| *dns clear* |
|---|

EXAMPLE:

```
=>dns list
Domain: business.lan
Nr.        Hostname             IP Address
0          SpeedTouch           *.*.*.*
1          TestHost                10.0.0.140
2          HTTP_Server          10.0.0.8
3          FTP_Server           10.0.0.7
Total Table Size: 73 entries
Amount used: 4 (5%)
=>dns clear
=>dns list
Domain: business.lan
Nr.        Hostname             IP Address
Total Table Size: 73 entries
Amount used: 0 (0%)
=>
```

RELATED COMMANDS:

**dns list**                    List current DNS entries.

# dns clrstats

Clear DNS statistics.

SYNTAX:

**dns clrstats**

EXAMPLE:

```
=>dns stats
DNS Statistics:
Corrupted packets recv                  :           0
Local questions resolved                :           0
Local neg answers sent                  :           4
Total DNS packets fwd                   :           0
External answers recv                   :           0
Fwd table full, discard                 :           0
Spurious answers                        :           0
Unknown query types                     :           0

Total number of packets received        :           4

=>dns clrstats
DNS statistics cleared.
=>dns stats
DNS Statistics:
Corrupted packets recv                  :           0
Local questions resolved                :           0
Local neg answers sent                  :           0
Total DNS packets fwd                   :           0
External answers recv                   :           0
Fwd table full, discard                 :           0
Spurious answers                        :           0
Unknown query types                     :           0

Total number of packets received        :           0

=>
```

RELATED COMMANDS:

**dns stats**                Show DNS server statistics.

## *dns delete*

Delete a DNS entry.

SYNTAX:

| *dns delete* | *index = <number>* |
|---|---|

| *index* | The index number of the entry to be deleted. Execute **dns list** to see a list of the index numbers of all current DNS entries. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>dns list
Domain: business.lan
Nr.        Hostname           IP Address
0          SpeedTouch         *.*.*.*
1          TestHost            10.0.0.140
2          HTTP_Server        10.0.0.8
3          FTP_Server         10.0.0.7
Total Table Size: 73 entries
Amount used: 4 (5%)
=>dns delete index=2
=>dns list
Domain: business.lan
Nr.        Hostname           IP Address
0          SpeedTouch         *.*.*.*
1          TestHost            10.0.0.140
3          FTP_Server         10.0.0.7
Total Table Size: 73 entries
Amount used: 3 (4%)
=>
```

RELATED COMMANDS:

| **dns add** | Add a static DNS entry. |
|---|---|
| **dns list** | List current DNS entries. |

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# *dns domain*

Set local DNS (sub)domain name.

SYNTAX:

| *dns domain* | *domain = <string>* |
|---|---|

| *domain* | The local DNS (sub)domain name. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>dns list
Domain: business.lan
Nr.        Hostname            IP Address
0          SpeedTouch          *.*.*.*
1          TestHost             10.0.0.140
2          HTTP_Server         10.0.0.8
3          FTP_Server          10.0.0.7
Total Table Size: 73 entries
Amount used: 4 (5%)
=>dns domain domain=office.home.lan
=>dns list
Domain: office.home.lan
Nr.        Hostname            IP Address
0          SpeedTouch          *.*.*.*
1          TestHost             10.0.0.140
2          HTTP_Server         10.0.0.8
3          FTP_Server          10.0.0.7
Total Table Size: 73 entries
Amount used: 4 (5%)
```

RELATED COMMANDS:

| **dns list** | List current DNS entries. |
|---|---|

## *dns flush*

Flush complete **SpeedTouch**™ **350i** DNS server configuration and static entries.
The flush command does not impact previously saved configurations.

SYNTAX:

| **dns flush** |
| --- |

EXAMPLE:

```
=>dns list
Domain: office.home.lan
Nr.       Hostname              IP Address
4*        Z7V1D8               10.0.0.29
0         SpeedTouch           *.*.*.*
1         TestHost              10.0.0.140
2         Default              10.0.0.8
3         ftpserver            172.16.0.1
Total Table Size: 73 entries
Amount used: 5 (6%)
=>dns flush
=>dns list
Domain: lan
Nr.       Hostname              IP Address
3*        Z7V1D8               10.0.0.29
Total Table Size: 73 entries
Amount used: 1 (1%)
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **dns save** | Save current DNS server configuration and static entries. |
| **dns load** | Load saved or default DNS server configuration and static entries. |

# *dns fwdadd*

Add a DNS forwarding entry. Normally this command should not be used.

SYNTAX:

| *dns fwdadd* | *dns = <ip-address>*<br>*src = <ip-address>*<br>*mask = <ip-mask (dotted or cidr)>*<br>*[direct = <number>]* |
|---|---|

| *dns* | The IP address of the (remote) DNS server. | REQUIRED |
|---|---|---|
| *src* | The source IP address (pool) of the host(s) using this DNS server. | REQUIRED |
| *mask* | The appropriate source IP (sub)netmask. | REQUIRED |
| *[direct]* | Determines whether DNS replies are sent directly back to the client (1) or relayed by the **SpeedTouch**™ **350i** DHCP server's DNS forwarder (0). | OPTIONAL |

RELATED COMMANDS:

| **dns fwddelete** | Delete a DNS forwarding entry. |
|---|---|
| **dns fwdlist** | Show current DNS forwarding entries. |

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## *dns fwddelete*

Delete a DNS forwarding entry. Normally this command should not be used.

SYNTAX:

| *dns fwddelete* | *src = <ip-address>*<br>*mask = <ip-mask (dotted or cidr)>*<br>*[dns = <ip-address>]* |
|---|---|

| *src* | The source IP address (pool) of the hosts to remove the entry for. | REQUIRED |
|---|---|---|
| *mask* | The source IP (sub)netmask. | REQUIRED |
| *[dns]* | The IP address of the (remote) DNS server (in case of multiple DNS server entries). | OPTIONAL |

RELATED COMMANDS:

| **dns fwdadd** | Add a DNS forwarding entry. |
|---|---|
| **dns fwdlist** | Show current DNS forwarding entries. |

## *dns fwdlist*

Show current DNS forwarding entries. Normally this command should not be used.

SYNTAX:

| *dns fwdlist* |
| --- |

RELATED COMMANDS:

| **dns fwdadd** | Add a DNS forwarding entry. |
| **dns fwddelete** | Delete a DNS forwarding entry. |
| **dns fwdtable** | Show DNS forwarding table. |

# *dns fwdtable*

Show DNS forwarding table. Normally this command should not be used.

SYNTAX:

| *dns fwdtable* |
|---|

RELATED COMMANDS:

**dns fwdlist**                    Show current DNS forwarding entries.

# *dns list*

Show current DNS entries.

SYNTAX:

| *dns list* |
| --- |

EXAMPLE OUTPUT:

```
=>dns list
Domain: office.home.lan
Nr.        Hostname              IP Address
4*         Z7V1D8                10.0.0.29
0          SpeedTouch            *.*.*.*
1          TestHost               10.0.0.140
2          Default               10.0.0.8
3          ftpserver             172.16.0.1
Total Table Size: 73 entries
Amount used: 5 (6%)
=>
```

EXAMPLE INPUT/OUTPUT IN A NETWORKED ENVIRONMENT:

The **SpeedTouch**™**350i** is configured as DNS server.

```
=>dns list
Domain: SpeedLAN.local
Nr.        Hostname              IP Address
0          SpeedTouch            *.*.*.*
1          Server                10.10.1.1
2          Client                10.0.0.3
Total Table Size: 73 entries
Amount used: 3 (4%)
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **dns add** | Add a static DNS entry. |
| **dns delete** | Delete a DNS entry (via its index number). |

## *dns load*

Load saved or default **SpeedTouch**™**350i** DNS server configuration and static DNS entries.
Execute **dns flush** prior to **dns load**.

SYNTAX:

| *dns load* | *[{saved\|defaults}]* |
|---|---|

| *dns load* | Load saved bridge configuration. |
| *dns load saved* | Load saved bridge configuration. |
| *dns load defaults* | Load default bridge configuration. |

RELATED COMMANDS:

| **dns flush** | Flush complete DNS server configuration and static entries. |
| **dns save** | Save current DNS server configuration and static entries |

## *dns nslookup*

Search the hostname (via a known IP address) or the IP address (via a known hostname) of a DNS host.

SYNTAX:

| *dns nslookup* | *lookup = <string>* |
|---|---|

| *lookup* | The DNS hostname or IP address to query. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>dns list
Domain: office.home.lan
Nr.        Hostname            IP Address
4*         Z7V1D8              10.0.0.29
0          SpeedTouch          *.*.*.*
1          TestHost             10.0.0.140
2          Default             10.0.0.8
3          ftpserver           172.16.0.1
Total Table Size: 73 entries
Amount used: 5 (6%)
=>dns nslookup lookup=TestHost
Name:    TestHost
Address: 10.0.0.140
=>dns nslookup lookup=10.0.0.29
Name:    Z7V1D8
Address: 10.0.0.29
=>
```

RELATED COMMANDS:

| **dns list** | List current DNS entries. |
|---|---|

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## *dns save*

Save current **SpeedTouch**™ **350i** DNS server configuration and static entries.

SYNTAX:

| *dns save* |
|---|

RELATED COMMANDS:

| **dns flush** | Flush complete DNS server configuration and dynamic entries. |
|---|---|
| **dns load** | Load saved or default DNS server configuration and static entries. |

# *dns start*

Start **SpeedTouch** ™ **350i** DNS server.

SYNTAX:

| *dns start* |
| --- |

EXAMPLE:

```
=>dns status
DNS server status: Stopped
DNS table size                        :     73,   in use:   4, free: 94 %
DNS forwarding table size             :     10,   in use:   0, free:100 %
DNS forwarding dns servers table size      :   25,   in use: 4, free:84    %
No dns cache.
Tracing: off
=>dns start
DNS server started.
=>dns status
DNS server status: Started
DNS table size                        :     73,   in use:   4, free: 94 %
DNS forwarding table size             :     10,   in use:   0, free:100 %
DNS forwarding dns servers table size      :   25,   in use: 4, free:84    %
No dns cache.
Tracing: off
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **dns status** | Show DNS server configuration. |
| **dns stop** | Stop DNS server. |

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## *dns stats*

Show **SpeedTouch**™**350i** DNS server statistics.

SYNTAX:

| *dns stats* |
| --- |

EXAMPLE INPUT/OUTPUT IN A NETWORKED ENVIRONMENT:

The **SpeedTouch**™**350i** is configured as DNS server.

```
=>dns list
Domain: SpeedLAN.local
Nr.        Hostname              IP Address
0          SpeedTouch            *.*.*.*
1          Server                10.10.1.1
2          Client                10.0.0.3
Total Table Size: 73 entries
Amount used: 3 (4%)
=>dns stats
DNS Statistics:
Corrupted packets recv                   :            0
Local questions resolved                 :            1
Local neg answers sent                   :            0
Total DNS packets fwd                    :            0
External answers recv                    :            0
Fwd table full, discard                  :            0
Spurious answers                         :            0
Unknown query types                      :            0
Total number of packets received         :            1
=>(Ping Client.SpeedLAN.local)
=>(CTRL + Q)
dnsd: Internet class type A request received from 10.10.1.1.
dnsd: Client.SpeedLAN.local found in local database.
dnsd: Client.SpeedLAN.local resolved into 10.0.0.3.
=>(Ping Server.SpeedLAN.local)
dnsd: Internet class type A request received from 10.10.1.1.
dnsd: Server.SpeedLAN.local found in local database.
dnsd: Server.SpeedLAN.local resolved into 10.0.0.3.
=>(CTRL + S)
=>dns stats
DNS Statistics:
Corrupted packets recv                   :            0
Local questions resolved                 :            3
Local neg answers sent                   :            0
Total DNS packets fwd                    :            0
External answers recv                    :            0
Fwd table full, discard                  :            0
Spurious answers                         :            0
Unknown query types                      :            0
Total number of packets received         :            3
=>
```

RELATED COMMANDS:

**dns clrstats**          Clear DNS server statistics.

# *dns status*

Show **SpeedTouch**™ **350i** DNS server configuration.

SYNTAX:

| *dns status* |
| --- |

EXAMPLE OUTPUT:

```
=>dns status
DNS server status: Stopped
DNS table size                        :    73,   in use:   4,  free: 94 %
DNS forwarding table size             :    10,   in use:   0,  free:100 %
DNS forwarding dns servers table size    :    25,   in use: 0, free:100   %
No dns cache.
Tracing: off
=>
```

RELATED COMMANDS:

| **dns flush** | Flush complete DNS server configuration and dynamic entries. |
| --- | --- |
| **dns load** | Load saved or default DNS server configuration and static entries. |
| **dns save** | Save current DNS server configuration and static entries. |

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## *dns stop*

Stop **SpeedTouch**™ **350i**  DNS server.

SYNTAX:

| *dns stop* |
| --- |

EXAMPLE:

```
=>dns status
DNS server status: Started
DNS table size                          :    73,   in use:   4, free: 94 %
DNS forwarding table size               :    10,   in use:   0, free:100 %
DNS forwarding dns servers table size      :   25,   in use: 0, free:100   %
No dns cache.
Tracing: off
=>dns stop
DNS server stopped.
=>dns status
DNS server status: Stopped
DNS table size                          :    73,   in use:   4, free: 94 %
DNS forwarding table size               :    10,   in use:   0, free:100 %
DNS forwarding dns servers table size      :   25,   in use: 0, free:100   %
No dns cache.
Tracing: off
=>
```

RELATED COMMANDS:

| **dns status** | Show DNS server configuration. |
| --- | --- |
| **dns start** | Start DNS server. |

# dns toutfwd

Set DNS forwarding timeout.

SYNTAX:

| dns toutfwd | timeout = <number> |
|---|---|

| timeout | A number (seconds). | REQUIRED |
|---|---|---|
| | Represents the query forwarding timeout. | |
| | This parameter determines how long the **SpeedTouch**™ **350i** DNS server should try to contact a (remote) DNS server before (temporarily) declaring the DNS requests unresolved. | |
| | By default the timeout is 15 seconds. | |

EXAMPLE:

```
=>dns fwdtable
Forwarding table:
Nr.  Ip Address     (port#):  id(hex) (expiry)         dns server      tries
0    10.10.10.12    (54751):  8331    (13 sec)         10.10.10.112    1
Timeout: 15 seconds
Table size: 10
amount of table used: 1 (10%)
=>dns toutfwd timeout=20
Current timeout: 15 seconds
Timeout set to: 20 seconds
=>dns fwdtable
Forwarding table:
Nr.  Ip Address     (port#):  id(hex) (expiry)         dns server      tries
0    10.10.10.12    (54751):  8331    (13 sec)         10.10.10.112    1
Timeout: 20 seconds
Table size: 10
amount of table used: 1 (10%)
=>
```

RELATED COMMANDS:

| **dns fwdtable** | Show DNS forwarding table. |
|---|---|
| **dns fwdlist** | Show current DNS forwarding entries.. |
| **dns fwdadd** | Add a DNS forwarding entry. |
| **dns fwddelete** | Delete a DNS forwarding entry. |

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## *dns troff*

Disable verbose console messaging. No debug traces are generated.

SYNTAX:

| *dns troff* |
|---|

EXAMPLE:

```
=>dns status
DNS server status: Started
DNS table size                      :    73,   in use:   4, free: 94 %
DNS forwarding table size           :    10,   in use:   0, free:100 %
DNS forwarding dns servers table size   :   25,  in use: 0, free:100   %
No dns cache.
Tracing: on
=>dns troff
=>dns status
DNS server status: Started
DNS table size                      :    73,   in use:   4, free: 94 %
DNS forwarding table size           :    10,   in use:   0, free:100 %
DNS forwarding dns servers table size    :   25,  in use: 0, free:100   %
No dns cache.
Tracing: off
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **dns fwdtable** | Show DNS forwarding table. |
| **dns fwdlist** | Show current DNS forwarding entries.. |
| **dns status** | Show DNS server configuration. |
| **dns tron** | Enable verbose console messaging. |

# *dns tron*

Enable verbose console messaging. Debug traces are generated.

SYNTAX:

| *dns tron* |
| --- |

EXAMPLE:

```
=>dns status
DNS server status: Started
DNS table size                         :    73,   in use:  4, free: 94 %
DNS forwarding table size              :    10,   in use:  0, free:100 %
DNS forwarding dns servers table size     :    25,  in use: 0, free:100  %
No dns cache.
Tracing: off
=>dns tron
Tracing on.
=>dns status
DNS server status: Started
DNS table size                         :    73,   in use:  4, free: 94 %
DNS forwarding table size              :    10,   in use:  0, free:100 %
DNS forwarding dns servers table size     :    25,  in use: 0, free:100  %
No dns cache.
Tracing: on
=>(CTRL + Q)
dnsd: Internet class type A request received from 10.0.0.10.
dnsd: aa.aa.be is outside our domain: forward.
dnsd: forwarding request from 10.0.0.10 (1318,0x0001) to 138.203.68.61
     (try=1): 'reply to ant' mode.
dnsd: Internet class type A request received from 10.0.0.10.
dnsd: aa.aa.be is outside our domain: forward.
dnsd: forwarding request from 10.0.0.10 (1318,0x0001) to 138.203.68.11
     (try=2): 'reply to ant' mode.
dnsd: forward answer from 138.203.68.11 to 10.0.0.10 (1318,0001).
dnsd: Internet class type A request received from 10.0.0.10.
dnsd: aa.aa.be.lan unknown: return error.
......
=>(CTRL + S)
```

RELATED COMMANDS:

| | |
| --- | --- |
| **dns fwdtable** | Show DNS forwarding table. |
| **dns fwdlist** | Show current DNS forwarding entries.. |
| **dns status** | Show DNS server configuration. |
| **dns troff** | Disable verbose console messaging. |

**ALCATEL**

# 5  IP Commands

**ip (to access the IP level)**
**ip apadd**
**ip apdelete**
**ip aplist**
**ip arpadd**
**ip arpdelete**
**ip arplist**
**ip config**
**ip flush**
**ip ifconfig**
**ip iflist**
**ip load**
**ip ping**
**ip rtadd**
**ip rtdelete**
**ip rtlist**
**ip save**
**ip sendto**

# ip apadd

Assign an IP address to an interface.

SYNTAX:

| ip apadd | addr = <ip-address><br>[netmask = <ip-mask (dotted or cidr)>]<br>intf = <interface name><br>[pointopoint = <ip-address>]<br>[broadcastip = <ip-address>]<br>[addrtrans]<br>[addroute = <{no\|yes}>]<br>[type = <number>] |
|---|---|

| addr | The new IP address to add. | REQUIRED |
|---|---|---|
| [netmask] | The subnetmask associated with this address. | OPTIONAL |
| intf | Always specify **eth0**. | REQUIRED |
| [pointopoint]] | Do not use this parameter. | OPTIONAL |
| [broadcastip] | Do not use this parameter. For internal use only. | OPTIONAL |
| [addrtrans] | Do not use this parameter. | OPTIONAL |
| [addroute] | Add typical net/subnet routes automatically according to the default (or specified) subnet mask (yes) or not (no). | OPTIONAL |
| [type] | Do not use this parameter. For internal use only. | OPTIONAL |

EXAMPLE:

```
=>ip aplist
1     eth0      Type:Ethernet HWaddr  00:80:9f:24:ab:cf BRHWaddr     ff:ff:ff:ff:ff:ff
      inet addr:10.10.10.147   Bcast:  10.10.10.255   Mask:255.0.0.0
      UP RUNNING        MTU:1500     ReasmMAX:65535  Group:2
      IPRX bytes:19791886  unicastpkts:11341 brcastpkts:290555
      IPTX bytes:839550    unicastpkts:11477 brcastpkts:0       droppkts:0
      HWRX bytes:0         unicastpkts:0     brcastpkts:0
      HWTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
0     loop      Type:0
      inet addr:127.0.0.1      Bcast:127.255.255.255   Mask:255.0.0.0
      UP RUNNING        MTU:1500     ReasmMAX:65535  Group:1
      IPRX bytes:116       unicastpkts:0     brcastpkts:2
      IPTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
      HWRX bytes:0         unicastpkts:0     brcastpkts:0
      HWTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
=>ip apadd addr=10.0.0.2 netmask=255.255.255.0 intf=eth0 addroute=yes
=>ip aplist
2     eth0      Type:Ethernet HWaddr  00:80:9f:24:ab:cf BRHWaddr     ff:ff:ff:ff:ff:ff
      inet addr:10.0.0.2       Bcast:  10.0.0.255    Mask:255.255.255.0
      UP RUNNING        MTU:1500     ReasmMAX:65535  Group:2
      IPRX bytes:0         unicastpkts:0     brcastpkts:0
      IPTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
      HWRX bytes:0         unicastpkts:0     brcastpkts:0
      HWTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
1     eth0      Type:Ethernet HWaddr  00:80:9f:24:ab:cf BRHWaddr     ff:ff:ff:ff:ff:ff
      inet addr:10.10.10.147   Bcast:  10.10.10.255   Mask:255.0.0.0
      UP RUNNING        MTU:1500     ReasmMAX:65535  Group:2
      IPRX bytes:19810763  unicastpkts:11515 brcastpkts:290669
      IPTX bytes:853114    unicastpkts:11662 brcastpkts:0       droppkts:0
      HWRX bytes:0         unicastpkts:0     brcastpkts:0
      HWTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
0     loop      Type:0
      inet addr:127.0.0.1      Bcast:127.255.255.255   Mask:255.0.0.0
      UP RUNNING        MTU:1500     ReasmMAX:65535  Group:1
      IPRX bytes:116       unicastpkts:0     brcastpkts:2
      IPTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
      HWRX bytes:0         unicastpkts:0     brcastpkts:0
      HWTX bytes:0         unicastpkts:0     brcastpkts:0       droppkts:0
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **ip apdelete** | Remove an IP address from an interface. |
| **ip aplist** | Show current IP addresses. |

## *ip apdelete*

Remove an IP address from an interface.

SYNTAX:

| *ip apdelete* | *addr = <ip-address>* |
|---|---|

| *addr* | The IP address to delete. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>ip aplist
2    eth0      Type:EthernetHWaddr  00:80:9f:24:ab:cf BRHWaddr     ff:ff:ff:ff:ff:ff
     inet addr:10.0.0.2        Bcast: 10.0.0.255     Mask:255.255.255.0
     UP RUNNING        MTU:1500     ReasmMAX:65535 Group:2
     IPRX bytes:0        unicastpkts:0      brcastpkts:0
     IPTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
1    eth0      Type:EthernetHWaddr  00:80:9f:24:ab:cf BRHWaddr     ff:ff:ff:ff:ff:ff
     inet addr:10.10.10.147    Bcast: 10.10.10.255   Mask:255.0.0.0
     UP RUNNING        MTU:1500     ReasmMAX:65535 Group:2
     IPRX bytes:19791886 unicastpkts:11341 brcastpkts:290555
     IPTX bytes:839550   unicastpkts:11477 brcastpkts:0        droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
0    loop      Type:0
     inet addr:127.0.0.1      Bcast:127.255.255.255  Mask:255.0.0.0
     UP RUNNING        MTU:1500     ReasmMAX:65535 Group:1
     IPRX bytes:116      unicastpkts:0      brcastpkts:2
     IPTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
=>ip apdelete addr=10.0.0.2
=>ip aplist
1    eth0      Type:EthernetHWaddr  00:80:9f:24:ab:cf BRHWaddr     ff:ff:ff:ff:ff:ff
     inet addr:10.10.10.147   Bcast: 10.10.10.255   Mask:255.0.0.0
     UP RUNNING        MTU:1500     ReasmMAX:65535 Group:2
     IPRX bytes:19791886 unicastpkts:11341 brcastpkts:290555
     IPTX bytes:839550   unicastpkts:11477 brcastpkts:0        droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
0    loop      Type:0
     inet addr:127.0.0.1      Bcast:127.255.255.255  Mask:255.0.0.0
     UP RUNNING        MTU:1500     ReasmMAX:65535 Group:1
     IPRX bytes:116      unicastpkts:0      brcastpkts:2
     IPTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0        droppkts:0
=>
```

RELATED COMMANDS:

| **ip apadd** | Add an IP address to an interface. |
|---|---|
| **ip aplist** | Show current IP addresses. |

## *ip aplist*

Show a list of all configured IP addresses.

SYNTAX:

| *ip aplist* |
| --- |

EXAMPLE:

```
=>ip aplist
2    eth0      Type:EthernetHWaddr  00:80:9f:24:ab:cf BRHWaddr    ff:ff:ff:ff:ff:ff
     inet addr:10.0.0.2        Bcast:  10.0.0.255    Mask:255.255.255.0
     UP RUNNING        MTU:1500      ReasmMAX:65535  Group:2
     IPRX bytes:0        unicastpkts:0      brcastpkts:0
     IPTX bytes:0        unicastpkts:0      brcastpkts:0      droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0      droppkts:0
1    eth0      Type:EthernetHWaddr  00:80:9f:24:ab:cf BRHWaddr    ff:ff:ff:ff:ff:ff
     inet addr:10.10.10.147   Bcast:  10.10.10.255   Mask:255.0.0.0
     UP RUNNING        MTU:1500      ReasmMAX:65535  Group:2
     IPRX bytes:19791886  unicastpkts:11341 brcastpkts:290555
     IPTX bytes:839550    unicastpkts:11477 brcastpkts:0      droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0      droppkts:0
0    loop      Type:0
     inet addr:127.0.0.1      Bcast:127.255.255.255  Mask:255.0.0.0
     UP RUNNING        MTU:1500      ReasmMAX:65535  Group:1
     IPRX bytes:116      unicastpkts:0      brcastpkts:2
     IPTX bytes:0        unicastpkts:0      brcastpkts:0      droppkts:0
     HWRX bytes:0        unicastpkts:0      brcastpkts:0
     HWTX bytes:0        unicastpkts:0      brcastpkts:0      droppkts:0
=>
```

RELATED COMMANDS:

| **ip apadd** | Add an IP address to an interface. |
| --- | --- |
| **ip apdelete** | Remove an IP address from an interface. |

# ip arpadd

Add a static entry to the **SpeedTouch**™ **350i** ARP cache.

SYNTAX:

| | |
|---|---|
| *ip arpadd* | *intf = <interface name>*<br>*ip = <ip-address>*<br>*[hwaddr = <hardware-address>]* |

| | | |
|---|---|---|
| *intf* | Always specify **eth0**. | REQUIRED |
| *ip* | The IP address. | REQUIRED |
| *[hwaddr]* | The hardware address (e.g. the Ethernet MAC address). | OPTIONAL |

EXAMPLE:

```
=>ip arplist
Intf        IP-address      HW-address             Type
eth0        10.0.0.1         00:01:42:5f:7d:81      DYNAMIC
eth0        10.0.0.8         00:a0:24:ae:66:e1      DYNAMIC
eth0        10.0.1.99       52:41:53:20:20:4d     STATIC
eth0        10.0.1.100      52:41:53:20:f0:90     STATIC
=>ip arpadd intf=eth0 ip=10.0.0.2 hwaddr=00:10:a4:d0:9a:db
=>ip arplist
Intf        IP-address      HW-address             Type
eth0        10.0.0.1         00:01:42:5f:7d:81      DYNAMIC
eth0        10.0.0.8         00:a0:24:ae:66:e1      DYNAMIC
eth0        10.0.1.99       52:41:53:20:20:4d     STATIC
eth0        10.0.1.100      52:41:53:20:f0:90     STATIC
eth0        10.0.0.2         00:10:a4:d0:9a:db      STATIC
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **ip arpdelete** | Delete an ARP entry. |
| **ip arplist** | Show current ARP cache. |

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## *ip arpdelete*

Remove an entry from the **SpeedTouch** ™ **350i** ARP cache.

SYNTAX:

| *ip arpdelete* | *intf = <interface name>*<br>*ip = <ip-address>*<br>*[hwaddr = <hardware-address>]* |
|---|---|

| *intf* | Always specify **eth0**. | REQUIRED |
|---|---|---|
| *ip* | The IP address. | REQUIRED |
| *[hwaddr]* | The hardware address. | OPTIONAL |

EXAMPLE:

```
=>ip arplist
Intf        IP-address      HW-address              Type
eth0        10.0.0.1         00:01:42:5f:7d:81      DYNAMIC
eth0        10.0.0.8         00:a0:24:ae:66:e1      DYNAMIC
eth0        10.0.1.99       52:41:53:20:20:4d       STATIC
eth0        10.0.1.100      52:41:53:20:f0:90       STATIC
eth0        10.0.0.2         00:10:a4:d0:9a:db       STATIC
=>ip arpdelete intf=eth0 ip=10.0.0.2 hwaddr=00:10:a4:d0:9a:db
=>ip arplist
Intf        IP-address      HW-address              Type
eth0        10.0.0.1         00:01:42:5f:7d:81      DYNAMIC
eth0        10.0.0.8         00:a0:24:ae:66:e1      DYNAMIC
eth0        10.0.1.99       52:41:53:20:20:4d       STATIC
eth0        10.0.1.100      52:41:53:20:f0:90       STATIC
eth0        10.0.0.2         00:10:a4:d0:9a:db       STATIC
=>
```

RELATED COMMANDS:

| **ip arpadd** | Add a static ARP entry. |
|---|---|
| **ip arplist** | Show current ARP cache. |

## *ip arplist*

Show the **SpeedTouch**™ **350i** ARP cache.

SYNTAX:

**ip arplist**

EXAMPLE OUTPUT:

```
=>ip arplist
Intf        IP-address       HW-address               Type
eth0        10.0.0.1          00:01:42:5f:7d:81        DYNAMIC
eth0        10.0.0.8          00:a0:24:ae:66:e1        DYNAMIC
eth0        10.0.1.99        52:41:53:20:20:4d        STATIC
eth0        10.0.1.100       52:41:53:20:f0:90        STATIC
eth0        10.0.0.2          00:10:a4:d0:9a:db        STATIC
=>
```

RELATED COMMANDS:

**ip arpadd**          Add a static entry to the ARP cache.
**ip arpdelete**       Delete an entry from the ARP cache.

▼
**A L C A T E L**

# *ip config*

Show/set global IP stack configuration options. Normally the IP stack configuration should not be altered.

SYNTAX:

| ip config | *[forwarding = <{off\|on}>]*<br>*[firewalling = <{off\|on}>]*<br>*[redirects = <{off\|on}>]*<br>*[sourcerouting = <{off\|on}>]*<br>*[ttl = <number{0–255}>]*<br>*[fraglimit = <number{1–1024}>]*<br>*[defragmode = <{normal\|always\|nat}>]* |
|---|---|

| *[forwarding]* | Do not use this parameter. | OPTIONAL |
|---|---|---|
| *[firewalling]* | Enable (on) or disable (off) IP firewalling (master switch).<br>For security reasons this parameter is enabled per default.<br>It is strongly recommended never to disable the **SpeedTouch™ 350i** firewall. | OPTIONAL |
| *[redirects]* | Do not use this parameter. | OPTIONAL |
| *[sourcerouting]* | Do not use this parameter. | OPTIONAL |
| *[ttl]* | Do not use this parameter. | OPTIONAL |
| *[fraglimit]* | Do not use this parameter. | OPTIONAL |
| *[defragmode]* | Do not use this parameter. | OPTIONAL |

# *ip flush*

Flush complete IP configuration. Dynamic configurations  (e.g. from PPP or CIP links) remain.
The flush command does not impact previously saved configurations.

As an **ip flush** causes all local IP connectivity to be deleted, do not execute this command during an
IP based  local connection, e.g. a Telnet CLI session.

SYNTAX:

```
ip flush
```

EXAMPLE:

```
=>ip aplist
2    eth0        Type:EthernetHWaddr  00:80:9f:24:ab:cf BRHWaddr     ff:ff:ff:ff:ff:ff
     inet addr:10.0.0.2           Bcast: 10.0.0.255      Mask:255.255.255.0
     UP RUNNING         MTU:1500      ReasmMAX:65535  Group:2
     IPRX bytes:0         unicastpkts:0       brcastpkts:0
     IPTX bytes:0         unicastpkts:0       brcastpkts:0       droppkts:0
     HWRX bytes:0         unicastpkts:0       brcastpkts:0
     HWTX bytes:0         unicastpkts:0       brcastpkts:0       droppkts:0
0    loop       Type:0
     inet addr:127.0.0.1       Bcast:127.255.255.255  Mask:255.0.0.0
     UP RUNNING         MTU:1500      ReasmMAX:65535  Group:1
     IPRX bytes:116       unicastpkts:0       brcastpkts:2
     IPTX bytes:0         unicastpkts:0       brcastpkts:0       droppkts:0
     HWRX bytes:0         unicastpkts:0       brcastpkts:0
     HWTX bytes:0         unicastpkts:0       brcastpkts:0       droppkts:0
=>ip flush
=>ip aplist
0    loop       Type:0
     inet addr:127.0.0.1       Bcast:127.255.255.255  Mask:255.0.0.0
     UP RUNNING         MTU:1500      ReasmMAX:65535  Group:1
     IPRX bytes:116       unicastpkts:0       brcastpkts:2
     IPTX bytes:0         unicastpkts:0       brcastpkts:0       droppkts:0
     HWRX bytes:0         unicastpkts:0       brcastpkts:0
     HWTX bytes:0         unicastpkts:0       brcastpkts:0       droppkts:0
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **ip load** | Load saved or default IP configuration. |
| **ip save** | Save current IP configuration. |

# ip ifconfig

Configure interface parameters.

SYNTAX:

| ip ifconfig | intf = *\<interface name\>*<br>[mtu = *\<number{293−20000}\>*]<br>[status = *\<{down\|up}\>*]<br>[hwaddr = *\<hwaddress\>*]<br>[group = *\<number\>*] |
|---|---|

| *intf* | Always specify **eth0**. | REQUIRED |
|---|---|---|
| *[mtu]* | A number between 293 and 20000.<br>Represents the maximum transmission unit, i.e. the maximum packet size (including IP header) to use. | OPTIONAL |
| *[status]* | The administrative status of the interface.<br>Choose between:<br>▪   down<br>▪   up | OPTIONAL |
| *[hwaddr]* | The hardware address (e.g. the Ethernet MAC address). | OPTIONAL |
| *[group]* | The group this interface belongs to.<br>Do not use this parameter. For internal use only. | OPTIONAL |

EXAMPLE:

```
=>ip iflist
Interface    GRP   MTU    RX          TX         TX-DROP    STATUS     HWADDR
0  loop      1     1500   116         0          0          UP
1  eth0      2     3000   21045795    1019664    0          UP         00:80:9f:24:ab:c
f
=>ip ifconfig intf=eth0 mtu=1500
=>ip iflist
Interface    GRP   MTU    RX          TX         TX-DROP    STATUS     HWADDR
0  loop      1     1500   116         0          0          UP
1  eth0      2     1500   21054963    1025417    0          UP         00:80:9f:24:ab:c
f
=>
```

RELATED COMMANDS:

**ip config**                         Show/set global IP stack configuration options.

# *ip iflist*

Show all current interfaces.

SYNTAX:

| *ip iflist* |
| --- |

EXAMPLE OUTPUT:

```
=>ip iflist
Interface   GRP   MTU    RX          TX          TX-DROP     STATUS     HWADDR
0  loop     1     1500   116         0           0           UP
1  eth0     2     3000   21045795      1019664   0              UP          00:80:9f:24:ab:c
f
=>
```

RELATED COMMANDS:

**ip ifconfig**                    Configure interface parameters.

## *ip load*

Load saved (or default) IP configuration.
Execute **ip flush** prior to **ip load**.

SYNTAX:

| *ip load* | *[{saved|defaults}]* |
|-----------|----------------------|

| *ip load* | Load saved IP configuration. |
|-----------|------------------------------|
| *ip load saved* | Load saved IP configuration. |
| *ip load defaults* | Load default IP configuration. |

RELATED COMMANDS:

| **ip flush** | Flush complete IP configuration. |
|--------------|----------------------------------|
| **ip save** | Save current IP configuration. |

# ip ping

Send ICMP ECHO_REQUEST packets.

SYNTAX:

| *ip ping* | *addr = <ip−address>*<br>*[count = <number{1−1000000}>]*<br>*[size = <number{1−20000}>]*<br>*[interval = <number{100−1000000}>]*<br>*[listen = <{off\|on}>]* |
|---|---|

| *addr* | The destination IP address. | REQUIRED |
|---|---|---|
| *[count]* | A number between 1 and 1000000.<br>Represents the number of pings to send. | OPTIONAL |
| *[size]* | A number between 1 and 20000 (bytes).<br>Represents the size of the ping packet(s). | OPTIONAL |
| *[interval]* | A number between 100 and 10000000 (milliseconds).<br>Represents the intermediate interval between two sent ICMP packets. | OPTIONAL |
| *[listen]* | Listen for incoming ICMP packets (on) or only send ICMP packets (off). | OPTIONAL |

EXAMPLE:

```
=>ip ping addr=10.0.0.148 listen=off
=>ip ping addr=10.0.0.148 listen=on
9 bytes from 10.0.0.148: Echo Request
=>ip ping addr=10.0.0.148 count=15 listen=on
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
9 bytes from 10.0.0.148: Echo Request
=>
```

RELATED COMMANDS:

**ip sendto**            Send UDP packets.

# ip rtadd

Add a route to the **SpeedTouch**™ **350i** routing table.

SYNTAX:

| ip rtadd | dst = <ip−address><br>[dstmsk = <ip−mask(dotted or cidr)>]<br>[src = <ip−address>]<br>[srcmsk = <ip−mask(dotted or cidr)>]<br>[gateway = <ip−address>]<br>[intf = <interface name>]<br>[metric = <number{0−100}>]<br>[type = <number>] |
| --- | --- |

| *dst* | The destination IP address(es) for this route.<br>Supports cidr notation. | REQUIRED |
| --- | --- | --- |
| *[dstmsk]* | The destination IP address mask. | OPTIONAL |
| *[src]* | The source IP address(es) allowed to use this route.<br>Supports cidr notation. | OPTIONAL |
| *[srcmsk]* | The source IP address mask. | OPTIONAL |
| *[gateway]* | The IP address of the next hop. Must be directly connected.<br>The parameters 'gateway' and 'intf' are mutually exclusive. | OPTIONAL |
| *[intf]* | Do not use this parameter. | OPTIONAL |
| *[metric]* | The metric for this route (currently not used). | OPTIONAL |
| *[type]* | Do not use this parameter. For internal use only. | OPTIONAL |

EXAMPLE:

```
=>ip rtlist
  Destination      Source         Gateway       Intf    Mtrc
  10.0.0.0/24      10.0.0.0/24    10.0.0.140    eth0    0
  10.0.0.140/32    0.0.0.0/0      10.0.0.140    eth0    0
  127.0.0.1/32     0.0.0.0/0      127.0.0.1     loop    0
=>ip rtadd dst=10.10.0.0/24 src=10.0.0.0/24 gateway=10.0.0.140
=>ip rtlist
  Destination      Source         Gateway       Intf    Mtrc
  10.0.0.0/24      10.0.0.0/24    10.0.0.140    eth0    0
  10.10.0.0/24     10.0.0.0/24    10.0.0.140    eth0    0
  10.0.0.140/32    0.0.0.0/0      10.0.0.140    eth0    0
  127.0.0.1/32     0.0.0.0/0      127.0.0.1     loop    0
=>
```

RELATED COMMANDS:

| **ip rtdelete** | Remove a route from the routing table. |
| --- | --- |
| **ip rtlist** | Show current routing table. |

# ip rtdelete

Delete a route from the **SpeedTouch**™ **350i** routing table.

SYNTAX:

| | |
|---|---|
| **ip rtdelete** | **dst = <ip−address>** |
| | **[dstmsk = <ip−mask(dotted or cidr)>]** |
| | **[src = <ip−address>]** |
| | **[srcmsk = <ip−mask(dotted or cidr)>]** |
| | **[gateway = <ip−address>]** |
| | **[intf = <interface name>]** |

| | | |
|---|---|---|
| *dst* | The destination IP address(es) of the route. Supports cidr notation. | REQUIRED |
| *[dstmsk]* | The destination IP address mask. | OPTIONAL |
| *[src]* | The source IP address(es) of the route. Supports cidr notation. | OPTIONAL |
| *[srcmsk]* | The source IP address mask. | OPTIONAL |
| *[gateway]* | The IP address of the next hop. Must be directly connected. The parameters 'gateway' and 'intf' are mutually exclusive. | OPTIONAL |
| *[intf]* | Do not use this parameter. | OPTIONAL |

EXAMPLE:

```
=>ip rtlist
  Destination      Source         Gateway       Intf    Mtrc
  10.0.0.0/24      10.0.0.0/24    10.0.0.140    eth0    0
  10.10.0.0/24     10.0.0.0/24    10.0.0.140    eth0    0
  10.0.0.140/32    0.0.0.0/0      10.0.0.140    eth0    0
  127.0.0.1/32     0.0.0.0/0      127.0.0.1     loop    0
=>ip rtdelete dst=10.10.0.0/24 src=10.0.0.0/24 gateway=10.0.0.140
=>ip rtlist
  Destination      Source         Gateway       Intf    Mtrc
  10.0.0.0/24      10.0.0.0/24    10.0.0.140    eth0    0
  10.0.0.140/32    0.0.0.0/0      10.0.0.140    eth0    0
  127.0.0.1/32     0.0.0.0/0      127.0.0.1     loop    0
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **ip rtadd** | Add a route to the routing table. |
| **ip rtlist** | Show current routing table. |

# *ip rtlist*

Show current **SpeedTouch**™ **350i** routing table.

SYNTAX:

| *ip rtlist* |
| --- |

EXAMPLE OUTPUT:

```
=>ip rtlist
  Destination       Source         Gateway        Intf    Mtrc
  10.0.0.0/24       10.0.0.0/24    10.0.0.140     eth0    0
  0.0.0.140/32      0.0.0.0/0      10.0.0.140     eth0    0
  127.0.0.1/32      0.0.0.0/0      127.0.0.1      loop    0
  10.0.0.0/24       0.0.0.0/0      10.0.0.140     eth0    0
=>
```

RELATED COMMANDS:

| **ip rtadd** | Add a route to the routing table. |
| --- | --- |
| **ip rtdelete** | Remove a route from the routing table. |

## *ip save*

Save current IP configuration.

SYNTAX:

| *ip save* |
|---|

RELATED COMMANDS:

| **ip flush** | Flush complete IP configuration. |
|---|---|
| **ip load** | Load saved or default IP configuration. |

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# ip sendto

Send UDP packets.

SYNTAX:

| ip sendto | addr = <ip−address><br>[count = <number{1−1000000}>]<br>[size = <number{1−20000}>]<br>[interval = <number{100−1000000}>]<br>[listen = <{off\|on}>]<br>[srcport = <number{1−65535}>]<br>dstport = <number{1−65535}> |
|---|---|

| | | |
|---|---|---|
| addr | The destination IP address. | REQUIRED |
| [count] | A number between 1 and 1000000.<br>Represents the number of UDP packets to send. | OPTIONAL |
| [size] | A number between 1 and 20000 (bytes).<br>Represents the size of the ping packet(s). | OPTIONAL |
| [interval] | A number between 100 and 10000000 (milliseconds).<br>Represents the intermediate interval between two sent UDP packets. | OPTIONAL |
| [listen] | Listen for incoming UDP packets (on) or only send UDP packets (off). | OPTIONAL |
| [srcport] | The UDP source port number to use. | OPTIONAL |
| dstport | The UDP destination port number to send to. | REQUIRED |

EXAMPLE:

```
=>ip sendto addr=10.0.0.148 listen=on srcport=19 dstport=1025
=>ip sendto addr=10.0.0.148 listen=on srcport=19 dstport=1025
1 bytes from 10.0.0.148:1025
41                                              A
=>ip sendto addr=10.0.0.148 count=3 listen=on srcport=19 dstport=1025
1 bytes from 10.0.0.148:1025
41                                              A
1 bytes from 10.0.0.148:1025
41                                              A
1 bytes from 10.0.0.148:1025
41                                              A
=>
```

RELATED COMMANDS:

**ip ping**                    Send ICMP ECHO_REQUEST packets.

# 6   Phonebook Commands

**phonebook (to access the Phonebook level)**
**phonebook add**
**phonebook autolist**
**phonebook delete**
**phonebook flush**
**phonebook list**
**phonebook load**
**phonebook save**

## *phonebook add*

Add a phonebook entry.

The number of entries is limited to 64. The number of active connections is limited to 12, but more may be configured at the same time.

SYNTAX:

| *phonebook add* | *name = <string>*<br>*addr = <vp\*vc>*<br>*type = <{bridge\|pptp}>* |
| --- | --- |

| | | |
| --- | --- | --- |
| *name* | A free to choose phonebook name for the destination.<br>Two limitations apply:<br>■   The name of a phonebook entry intended for the **Relayed PPPoA** (PPPoA-to-PPTP Relaying) packet service may not start with capital **P** or capital **T** | REQUIRED |
| *addr* | The ATM address for this destination.<br>It is composed of a Virtual Path Identifier (VPI) and a Virtual Channel Identifier (VCI) identifying ATM virtual channels.<br>In most cases the values are provided by the Service Provider.<br>Accepted VPI: a number between 0 and 15<br>Accepted VCI: a number between 0 and 511. | REQUIRED |
| *type* | The Connection Service supported by the destination.<br>Choose between:<br>■   bridge (Bridging, Bridged PPPoE)<br>■   pptp (Relayed PPPoA, PPPoA-to-PPTP Relaying). | REQUIRED |

EXAMPLE:

```
=>phonebook list
Name            address         type        usage
Br1             8*35            bridge      configured
RELAY_PPP1      8*48            pptp        configured
=>phonebook add name=Alcatel addr=8.68 type=pptp
=>phonebook list
Name            address         type        usage
Br1             8*35            bridge      configured
RELAY_PPP1      8*48            pptp        configured
Alcatel         8*68            pptp        free
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **phonebook delete** | Remove a phonebook entry. |
| **phonebook list** | Show current phonebook. |

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## *phonebook autolist*

Show auto PVCs, if supported by the Central Office DSLAM. (Only applicable for Alcatel ASAM DSLAMs).

SYNTAX:

```
phonebook autolist
```

EXAMPLE INPUT/OUTPUT:

```
=>phonebook autolist
8.35
=>
```

RELATED COMMANDS:

**phonebook list**                    Show current phonebook.

## *phonebook delete*

Remove an unused phonebook entry.

SYNTAX:

| *phonebook delete*  *name = <string>* |
|---|

| *name* | the name of the phonebook entry to delete. Only applicable for phonebook entries that are not used, i.e. not configured for any packet service. Execute **phonebook list** to check whether the entry is used or not. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>phonebook list
Name          address       type       usage
Br1           8*35          bridge     configured
RELAY_PPP1    8*48          pptp       configured
Alcatel       8*68          pptp       free
=>phonebook delete name=Alcatel
=>phonebook list
Name          address       type       usage
Br1           8*35          bridge     configured
RELAY_PPP1    8*48          pptp       configured
=>
```

RELATED COMMANDS:

| **phonebook add** | Add a phonebook entry. |
|---|---|
| **phonebook list** | Show current phonebook. |

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**A L C A T E L**

## *phonebook flush*

Flush complete phonebook.

The flush command does not impact previously saved configurations.

SYNTAX:

| *phonebook flush* |
| --- |

EXAMPLE:

```
=>phonebook list
Name          address        type        usage
Br1           8*35           bridge      configured
Br2           8*36           bridge      free
Br3           8*37           bridge      free
Br4           8*38           bridge      free
RELAY_PPP1    8*48           pptp        configured
RELAY_PPP2    8*49           pptp        configured
RELAY_PPP3    8*50           pptp        configured
RELAY_PPP4    8*51           pptp        configured
=>phonebook flush
=>phonebook list
Name          address        type        usage
=>
```

RELATED COMMANDS:

| **phonebook load** | Load saved or default phonebook. |
| --- | --- |
| **phonebook save** | Save current phonebook. |

## *phonebook list*

Show current phonebook.

SYNTAX:

| *phonebook list* | *[opt = <{long}>]* |
|---|---|

| *[opt]* | Do not use this parameter. For internal use only. | OPTIONAL |
|---|---|---|

EXAMPLE INPUT/OUTPUT:

```
=>phonebook list
Name            address         type        usage
Br1             8*35            bridge      configured
Br2             8*36            bridge      free
Br3             8*37            bridge      free
Br4             8*38            bridge      free
RELAY_PPP1      8*48            pptp        configured
RELAY_PPP2      8*49            pptp        configured
RELAY_PPP3      8*50            pptp        configured
RELAY_PPP4      8*51            pptp        configured
=>
```

RELATED COMMANDS:

| **phonebook add** | Add a phonebook entry. |
|---|---|
| **phonebook autolist** | Show auto PVCs. |
| **phonebook delete** | Remove a phonebook entry. |

## *phonebook load*

Load saved (or default) phonebook.
Execute **phonebook flush** prior to **phonebook load**.

SYNTAX:

| *phonebook load* | *[{saved|defaults}]* |
|---|---|

| | |
|---|---|
| *phonebook load* | Load saved phonebook configuration. |
| *phonebook load saved* | Load saved phonebook configuration. |
| *phonebook load defaults* | Load default phonebook configuration. |

RELATED COMMANDS:

| | |
|---|---|
| **phonebook flush** | Flush complete phonebook. |
| **phonebook save** | Save current phonebook. |

## *phonebook save*

Save current phonebook.

SYNTAX:

| *phonebook save* |
| --- |

RELATED COMMANDS:

| **phonebook flush** | Flush complete phonebook. |
| **phonebook load** | Load saved or default phonebook. |

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# 7  PPTP Commands

**pptp (to access the PPTP level)**
**pptp flush**
**pptp ifadd**
**pptp ifconfig**
**pptp ifdelete**
**pptp iflist**
**pptp load**
**pptp save**

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# *pptp flush*

Flush complete PPTP configuration.

The flush command does not impact previously saved configurations.

SYNTAX:

*pptp flush*

EXAMPLE:

```
=>pptp iflist
C:#          Name       VP    VC    Rate    Encap    AC       Usage [by]
 0           RELAY_PPP1 8     48    0K      vcmux    never    DEFINED
 1           RELAY_PPP2 8     49    0K      vcmux    never    DEFINED
 2           RELAY_PPP3 8     50    0K      vcmux    never    DEFINED
 3           RELAY_PPP4 8     51    0K      vcmux    never    DEFINED
 4           Test       8     52    6000K   nlpid    keep     DEFINED
=>pptp flush
=>pptp iflist
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **pptp load** | Load saved or default PPTP configuration. |
| **pptp save** | Save current PPTP configuration. |

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# *pptp ifadd*

Add a PPTP interface.

SYNTAX:

| | |
|---|---|
| ***pptp ifadd*** | ***dest = \<vp\*vc\|name>***<br>***[rate = \<number{10−10000}>]***<br>***[encaps = \<{vcmux\|nlpid}>]***<br>***[ac \<{never\|always\|keep}>]*** |

| | | |
|---|---|---|
| *dest* | The destination for the relayed PPTP tunnel.<br>Typically a phonebook name. | REQUIRED |
| *[rate]* | A number between 10 and 10000 (Kilobits per second).<br>Indicates the (maximum) transmission speed on the WAN link. | OPTIONAL |
| *[encaps]* | The type of encapsulation to be used for the relayed PPPoA interface.<br>Choose between:<br>▪   vcmux (default)<br>▪   nlpid | OPTIONAL |
| *[ac]* | Before relaying the encapsulated PPP frames over the PPPoA link, make sure that the address and control field (0xFF03) is always in front of the frames (always), make sure the address and control field will never be found in front of the frames (never) or do not change the frames arriving via the PPTP tunnel (keep).<br>By default the address and control field is never sent (compliant to RFC2364). It is recommended to keep this setting. | OPTIONAL |

EXAMPLE:

```
=>pptp iflist
C:#         Name      VP    VC    Rate    Encap    AC      Usage [by]
 0          RELAY_PPP1 8     48    0K      vcmux    never   DEFINED
 1          RELAY_PPP2 8     49    0K      vcmux    never   DEFINED
 2          RELAY_PPP3 8     50    0K      vcmux    never   DEFINED
 3          RELAY_PPP4 8     51    0K      vcmux    never   DEFINED
=>pptp ifadd dest=Test rate=6000 encaps=nlpid ac=keep
=>pptp iflist
C:#         Name      VP    VC    Rate    Encap    AC      Usage [by]
 0          RELAY_PPP1 8     48    0K      vcmux    never   DEFINED
 1          RELAY_PPP2 8     49    0K      vcmux    never   DEFINED
 2          RELAY_PPP3 8     50    0K      vcmux    never   DEFINED
 3          RELAY_PPP4 8     51    0K      vcmux    never   DEFINED
 4          Test       8     52    6000K   nlpid    keep    DEFINED
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **pptp ifconfig** | Configure an existing PPTP interface. |
| **pptp ifdelete** | Delete a PPTP interface. |
| **pptp iflist** | Show current PPTP interfaces. |

# pptp ifconfig

Configure an existing PPTP interface.

SYNTAX:

| pptp ifconfig | intf = <vp*vc\|name><br>[rate = <number{10−10000}>]<br>[encaps = <{vcmux\|nlpid}>]<br>[ac <{never\|always\|keep}>] |
|---|---|

| | | |
|---|---|---|
| *intf* | The PPTP interface to configure<br>Typically a phonebook name. | REQUIRED |
| *[rate]* | A number between 10 and 10000 (Kilobits per second).<br>Indicates the (maximum) transmission speed on the WAN link. | OPTIONAL |
| *[encaps]* | The type of encapsulation to be used for the relayed PPPoA interface.<br>Choose between:<br>▪   vcmux (default)<br>▪   nlpid | OPTIONAL |
| *[ac]* | Before relaying the encapsulated PPP frames over the PPPoA link, make sure that the address and control field (0xFF03) is always in front of the frames (always), make sure the address and control field will never be found in front of the frames (never) or do not change the frames arriving via the PPTP tunnel (keep).<br>By default the address and control field is never sent (compliant to RFC2364). It is recommended to keep this setting. | OPTIONAL |

EXAMPLE:

```
=>pptp iflist
C:#         Name      VP   VC   Rate    Encap   AC      Usage [by]
 0          RELAY_PPP1 8    48   0K      vcmux   never   DEFINED
 1          RELAY_PPP2 8    49   0K      vcmux   never   DEFINED
 2          RELAY_PPP3 8    50   0K      vcmux   never   DEFINED
 3          RELAY_PPP4 8    51   0K      vcmux   never   DEFINED
 4          Test      8    52   6000K   nlpid   keep    DEFINED
=>pptp ifconfig intf=Test rate=2ooK encaps=vcmux ac=always
=>pptp iflist
C:#         Name      VP   VC   Rate    Encap   AC      Usage [by]
 0          RELAY_PPP1 8    48   0K      vcmux   never   DEFINED
 1          RELAY_PPP2 8    49   0K      vcmux   never   DEFINED
 2          RELAY_PPP3 8    50   0K      vcmux   never   DEFINED
 3          RELAY_PPP4 8    51   0K      vcmux   never   DEFINED
 4          Test      8    52   200K    vcmux   always  DEFINED
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **pptp ifadd** | Add a PPTP interface. |
| **pptp ifdelete** | Delete a PPTP interface. |
| **pptp iflist** | Show current PPTP interfaces. |

## *pptp ifdelete*

Delete a PPTP interface.

SYNTAX:

| *pptp ifdelete* | *intf = <vp\*vc\|name>* |
|---|---|

| *intf* | The name od the PPTP interface to delete. Typically a phonebook name. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>pptp iflist
C:#          Name      VP   VC   Rate    Encap   AC      Usage [by]
 0           RELAY_PPP1 8    48   0K      vcmux   never   DEFINED
 1           RELAY_PPP2 8    49   0K      vcmux   never   DEFINED
 2           RELAY_PPP3 8    50   0K      vcmux   never   DEFINED
 3           RELAY_PPP4 8    51   0K      vcmux   never   DEFINED
 4           Test       8    52   6000K   nlpid   keep    DEFINED
=>pptp ifdelete intf=Test
=>pptp iflist
C:#          Name      VP   VC   Rate    Encap   AC      Usage [by]
 0           RELAY_PPP1 8    48   0K      vcmux   never   DEFINED
 1           RELAY_PPP2 8    49   0K      vcmux   never   DEFINED
 2           RELAY_PPP3 8    50   0K      vcmux   never   DEFINED
 3           RELAY_PPP4 8    51   0K      vcmux   never   DEFINED
=>
```

RELATED COMMANDS:

| **pptp ifadd** | Add a PPTP interface. |
|---|---|
| **pptp ifconfig** | Configure an existing PPTP interface. |
| **pptp iflist** | Show current PPTP interfaces. |

# *pptp iflist*

Show current PPTP configuration.

SYNTAX:

**pptp list**

EXAMPLE INPUT/OUTPUT:

```
=>pptp iflist
C:#          Name      VP   VC    Rate    Encap   AC      Usage [by]
 0           RELAY_PPP1 8    48    0K      vcmux   never   DEFINED
 1           RELAY_PPP2 8    49    0K      vcmux   never   DEFINED
 2           RELAY_PPP3 8    50    0K      vcmux   never   DEFINED
 3           RELAY_PPP4 8    51    0K      vcmux   never   DEFINED
 4           Test       8    52    6000K   nlpid   keep    DEFINED
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **pptp ifadd** | Add a PPTP interface. |
| **pptp ifconfig** | Configure an existing PPTP interface. |
| **pptp ifdelete** | Delete a PPTP interface. |

# *pptp load*

Load saved (or default) PPTP configuration.
Execute **pptp flush** prior to **pptp load**.

SYNTAX:

| *pptp load* | *[{saved\|defaults}]* |
|---|---|

| *pptp load* | Load saved PPTP configuration. |
|---|---|
| *pptp load saved* | Load saved PPTP configuration. |
| *pptp load defaults* | Load default PPTP configuration. |

RELATED COMMANDS:

| **pptp flush** | Flush complete PPTP configuration. |
|---|---|
| **pptp save** | Save current PPTP configuration. |

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## *pptp save*

Save current PPTP configuration.


SYNTAX:

| *pptp save* |
|---|


RELATED COMMANDS:

| **pptp flush** | Flush complete PPTP configuration. |
|---|---|
| **pptp load** | Load saved or default PPTP configuration. |

**A L C A T E L**

# 8 Software Commands

**software (to access the Software level)**
**software cleanup**
**software deletepassive**
**software setpassive**
**software switch**
**software version**

## *software cleanup*

Remove all unused files from the passive software subdirectory.

This command frees the passive software subdirectory from corrupted software files and configuration files. Software marked as passive software is  not deleted.

SYNTAX:

| *software cleanup* |
| --- |

EXAMPLE:

```
=>software cleanup
=>
```

RELATED COMMANDS:

| **software deletepassive** | Delete the passive software. |
| --- | --- |
| **software setpassive** | Mark an uploaded file as passive software version. |

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## *software deletepassive*

Delete passive software.

SYNTAX:

| *software deletepassive* |
| --- |

EXAMPLE:

```
=>Software version
Active  :  Sascha3.254          Passive :  Bene3.228
=>Software deletepassive
=>Software version
Active  :  Sascha3.254          Passive :
=>
```

RELATED COMMANDS:

| **software cleanup** | Remove all unused files from the passive software subdirectory. |
| --- | --- |
| **software setpassive** | Mark a file as passive software version. |

# *software setpassive*

Mark a file as passive software version. Only correctly uploaded software, valid for the **SpeedTouch**™**350i** can be marked as passive software.

SYNTAX:

| *software setpassive*   *file = <string>* |
|---|

| *file* | the filename (without directory path) of the software package. | REQUIRED |
|---|---|---|

EXAMPLE:

```
=>Software version
Active  :  Sascha3.254          Passive :  Bene3.228
=>Software deletepassive
=>Software version
Active  :  Sascha3.254          Passive :
.....
(FTP file transfer or upload via the SpeedTouch™350i pages of new software Sascha3.280)
.....
=>software setpassive file=Sascha3.280
=>Software version
Active  :  Sascha3.254          Passive :  Sascha3.280
=>
```

RELATED COMMANDS:

| **software cleanup** | Remove all unused files from the passive software subdirectory. |
|---|---|
| **software deletepassive** | Delete passive software. |

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## *software switch*

Switch active and passive versions and reboot the **SpeedTouch**™ **350i**.

Because rebooting implies a flush of all non-saved configurations it is highly recommended to save the current configuration if needed, e.g. by executing the **config save** command prior to executing a software switch.

SYNTAX:

| *software switch* |
| --- |

EXAMPLE:

```
=>Software version
Active  :  Sascha3.254          Passive :  Sascha3.280
=>software switch
.....
(after reboot and re-opening the Telnet session)
.....
=>Software version
Active  :  Sascha3.280          Passive :  Sascha3.254
=>
```

RELATED COMMANDS:

| | |
| --- | --- |
| **software version** | Show active and passive software versions. |
| **system reboot** | Reboot the **SpeedTouch**™ **350i**. |

## *software version*

Show active and passive software versions.

SYNTAX:

| *software version* |
|---|

EXAMPLE:

```
=>Software version
Active  :  Sascha3.280              Passive :  Sascha3.254
=>
```

RELATED COMMANDS:

**software switch**　　　　　　　　Switch active and passive software versions and reboot the
　　　　　　　　　　　　　　　　**SpeedTouch™350i**.

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# 9   System Commands

**system (to access the System level)**
**system clearpassword**
**system flush**
**system load**
**system reboot**
**system save**
**system setpassword**

## *system clearpassword*

Clear current **SpeedTouch** ™ **350i** system password.

To avoid unrestricted and unauthorized access to the **SpeedTouch** ™ **350i** it is highly recommended always to make sure that it is protected by a **SpeedTouch** ™ **350i** system password (by executing **system setpassword**) and to change the password regularly.

SYNTAX:

*system clearpassword*

EXAMPLE:

```
=>system clearpassword
=>
```

RELATED COMMANDS:

**system setpassword**          Set/change current system password.

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## *system flush*

Flush current **SpeedTouch**™**350i** system configuration, i.e. the System password.
The flush command does not impact previously saved configurations.

To avoid unrestricted and unauthorized access to the **SpeedTouch**™**350i** it is highly recommended always to make sure that it is protected by a **SpeedTouch**™**350i** system password (by executing **system setpassword**) and to change the password regularly.

SYNTAX:

| |
|---|
| *system flush* |

EXAMPLE:

```
=>system flush
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **system load** | Load saved or default system configuration. |
| **system save** | Save current system configuration. |

# *system load*

Load saved (or default) system configuration.

Execute **system flush** prior to **system load**.

In most cases loading the <u>default system configuration</u> causes the **SpeedTouch**™ **350i** system password to be CLEARED.

Therefore, to avoid unrestricted and unauthorized access to the **SpeedTouch**™ **350i** it is highly recommended always to make sure that it is protected by a **SpeedTouch**™ **350i** system password (by executing **system setpassword**) and to change the password regularly.

SYNTAX:

| *system load* | *[{saved\|defaults}]* |
|---|---|

| *system load* | Load saved system configuration. |
|---|---|
| *system load saved* | Load saved system configuration. |
| *system load defaults* | Load default system configuration. |

RELATED COMMANDS:

| **system flush** | Flush complete system configuration. |
|---|---|
| **system save** | Save current system configuration. |

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## *system reboot*

Reboot the **SpeedTouch**™ **350i**.

Because rebooting implies a flush of all non-saved configurations it is highly recommended to save the current configuration by executing **config save**.

To avoid unrestricted and unauthorized access to the **SpeedTouch**™ **350i** it is highly recommended always to make sure that it is protected by a **SpeedTouch**™ **350i** system password (by executing **system setpassword**) and to save it (by executing **system save**) prior to executing this command.

SYNTAX:

```
system reboot
```

EXAMPLE:

```
=>system reboot
.....
(lost session connectivity due to reboot)
.....
```

## *system save*

Save current system configuration, i.e. the System password.

To avoid unrestricted and unauthorized access to the **SpeedTouch**™ **350i** it is highly recommended always to make sure that it is protected by a **SpeedTouch**™ **350i** system password (by executing **system setpassword**) and to save it (by executing **system save**) prior to executing this command.

SYNTAX:

| |
|---|
| *system save* |

EXAMPLE:

```
=>system save
=>
```

RELATED COMMANDS:

| | |
|---|---|
| **system load** | Load saved or default system configuration. |
| **system flush** | Flush complete system configuration. |

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## *system setpassword*

Set/change the current **SpeedTouch**™**350i** system password.

Because rebooting implies a flush of all non-saved configurations it is highly recommended to save the current configuration via the **system save** command.

To avoid unrestricted and unauthorized access to the **SpeedTouch**™**350i** it is highly recommended always to make sure that it is protected by a **SpeedTouch**™**350i** system password and to change it regularly.

SYNTAX:

| *system setpassword*   *password = {<string>|$_BOARD_SERIAL_NBR}* |
|---|

| *password* | the system password can be set to either:<br><br>■   <string><br>A free to choose password <string><br><br>■   $_BOARD_SERIAL_NBR<br>Equal to the **SpeedTouch**™**350i** device serial number's nine numerical digits. | REQUIRED |
|---|---|---|

IMPORTANT NOTE:

**Serial number**               The code serial number is printed on the marking label found on the bottom of the **SpeedTouch**™**350i**:
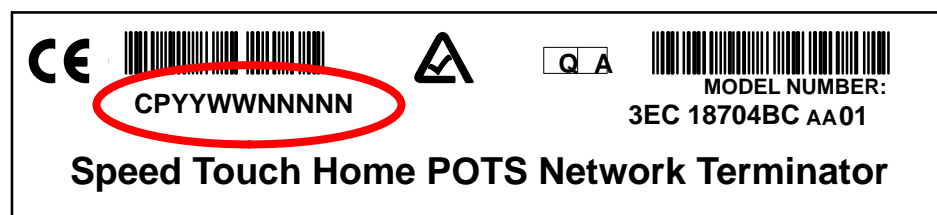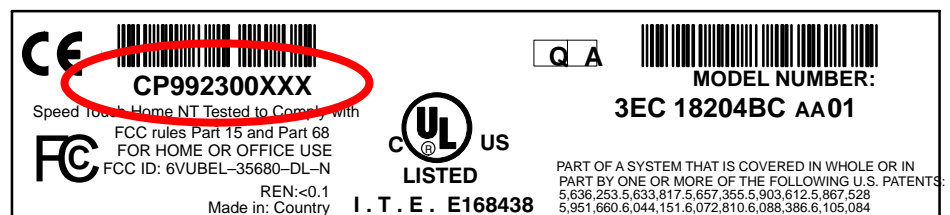




It consists of the concatenation of the string 'CP' followed by nine digits. These nine digits incorporate the serial number.
In case the System password is set to the serial number, for authentication the serial number must be given without the preceding string 'CP' .
DO NOT REMOVE OR COVER THIS MARKING LABEL !!!

EXAMPLE 1:

```
=>system setpassword password=Sascha
=>
```

EXAMPLE 2:

```
=>system setpassword password=$_BOARD_SERIAL_NBR
=>system save

.....


After reboot a telnet session is opened to the SpeedTouch™350i with the following
serial number: 013214578 (remind to strip of the string 'CP')


/home/doejohn{1}$ telnet 10.0.0.138
Trying 10.0.0.138...
Connected to 10.0.0.138.
Escape character is '^]'.
User :
SpeedTouch (00-90-D0-00-01-23-45)
Password : 013214578
--------------------------------------------------------------------
*
*                                     _____
*                            ___/_____/\
*                           /         /\\      Alcatel Speed Touch(TM)350i
*                   _____/__         /  \\     ADSL Modem for ISDN
*                 _/        /\_____/___ \         Version R3.2
*                //        /  \       /\ \
*         _____//_____/      \     / _\/_____ Copyright 1999-2001.
*        /     / \       \       /   / /        /\
*     __/      /   \       \_____\/   / /        /  _\__
*    / /      /     _____\/     / /          / /    /\
*   /_/_____/_____/ /_____/ /___/  \
*   \ \ \       \     _____        \ \        \ \     \ /
*    \_\ \       \   /         /\       \ \        \ \___\/
*      \   \/       / /       /\ \       \ \        \ /
*       _____/       /  \     \ _____\/
*      /_____/       \     \  /
*       \     _____       \    /_____\/
*        \ /       /\ \     /___\/
*         /____/      \  \    /
*           \       \  /___\/
*             \_____\/
*
--------------------------------------------------------------------
=>
```

RELATED COMMANDS:

**system clearpassword**          Clear current system password.

# 10 TD Commands

**td (to access this level)**
**td call**
**td prompt**

## *td call*

Call a 'Trace & Debug' command. For qualified personnel only.

SYNTAX:

| *td call* | *cmd = <string>* |
|-----------|------------------|

| *cmd* | The quoted trace & debug command string. | REQUIRED |

**ALCATEL**

## *td prompt*

Switch to Alcatel-owned 'Trace & Debug' prompt (expert mode). For qualified personnel only.

SYNTAX:

| *td prompt* |
|---|

Before entering the expert mode a DISCLAIMER is shown stipulating that the 'Trace & Debug' prompt (expert mode) is intended for qualified personnel only.

Pressing ENTER allows to return to user mode.

The 'Trace & Debug' prompt (expert mode) password  is intended to be used by qualified personnel only.

The 'Trace & Debug' prompt (expert mode) password is <u>not</u> intended to protect the **SpeedTouch**™ **350i** from unrestricted and unauthorized access.

Therefore, to avoid unrestricted and unauthorized access to the **SpeedTouch**™ **350i** it is highly recommended always to make sure that it is protected by a **SpeedTouch**™ **350i** system password and to change it regularly. See the **system setpassword** command for more information.

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