



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for THOMSON SPEEDTOUCH 570I. You'll find the answers to all your questions on the THOMSON SPEEDTOUCH 570I in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual THOMSON SPEEDTOUCH 570I**  
**User guide THOMSON SPEEDTOUCH 570I**  
**Operating instructions THOMSON SPEEDTOUCH 570I**  
**Instructions for use THOMSON SPEEDTOUCH 570I**  
**Instruction manual THOMSON SPEEDTOUCH 570I**

**SpeedTouch™**  
**510(i)/530/570(i)**  
**Multi-User ADSL Gateways**  
**CLI Reference Guide**



  
**THOMSON**

**speedtouch™**  
ALCATEL



[You're reading an excerpt. Click here to read official THOMSON SPEEDTOUCH 570I user guide](http://yourpdfguides.com/dref/3820515)  
<http://yourpdfguides.com/dref/3820515>



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*. 18 Menu-driven CLI Navigation ....*

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*.. 19 Configuration Profile Files and the CLI.....*

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*20 Direct FTP Access .....*

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*. 27 ATM Commands...*

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*... 29 atm portstats..*

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*... 39 bridge ifconfig.....*

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*..... 42 bridge ifdelete ....*

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*.. 46 bridge macadd...*

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*..... 48 bridge macdelete .*

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*..... 49 bridge maclist ....*

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.... 50 E-SIT-CTC-20021203-0003 v1.  
    0 1 CIP Commands .....

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.... 51 cip.flush.....

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..... 57 cip pvcdelete .

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..... *58 cip pvclist.*

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.... *59 Config Commands .*

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... *61 config erase.*

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..... 62 config flush .....

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... 63 config load.....

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.. 64 config save...

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. 65 2 E-SIT-CTC-20021203-0003 v1.0 DHCP Commands .....

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. 67 dhcp client clear .....

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..... 68 dhcp client config .

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69 dhcp client flush.....

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.... 70 dhcp client ifadd.....

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*. 73 dhcp client ifdelete....*

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*75 dhcp client iflist....*

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*..... 76 dhcp client ifrelease .....*

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..... 77 dhcp client ifrenew ...

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79 dhcp client stats.....

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..... 81 dhcp server clear.

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*. 82 dhcp server config....*

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*. 83 dhcp server flush .....*

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..... 84 dhcp server policy..

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..... 86 dhcp server start ..

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*87 dhcp server stats .....*

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*.. 88 dhcp server stop .....*

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..... 90 dhcp server lease add.

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..... 91 dhcp server lease delete..

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.. 93 dhcp server lease flush.....

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.... 94 dhcp server lease list.

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.... 95 dhcp server pool add .

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... 96 dhcp server pool config ..

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*... 98 dhcp server pool delete..*

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*.....100 dhcp server pool flush ....*

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*.101 dhcp server pool list.....*

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*102 E-SIT-CTC-20021203-0003 v1.0 3 DNS Commands .....*

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*. 103 dns add .....*

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.....129 env set ...

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130 env unset.....

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*...131 Eth Commands.*

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*.. 133 eth ifconfig .....*

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*.....134 eth iflist ..*

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*135 4 E-SIT-CTC-20021203-0003 v1.0 Firewall Commands.....*

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*..... 137 firewall assign ....*

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*.....138 firewall flush...*

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*.139 firewall list.....*

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*.....140 firewall troff..*

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*..141 firewall tron.....*

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*.....142 firewall unassign....*

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*...143 firewall chain create..*

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*...144 firewall chain delete..*

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*...145 firewall chain list ..*

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*....146 firewall rule clear.*

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*....147 firewall rule create.....*

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*.....148 firewall rule delete ....*

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.....152 firewall rule flush ..

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...153 firewall rule list .....

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*.154 firewall rule stats ....*

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*.155 IP Commands ....*

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*..158 ip apdelete...*

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*.....160 ip aplist.*

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*..161 ip arpadd .....*

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*.162 ip arpdelete....*

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*.....163 ip arplist....*

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*..164 ip config ...*  
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.....*165 ip flush.*

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*..168 ip ifconfig .....*

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*.169 ip iflist.....*

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*.170 ip ping....*

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*.171 ip rtadd ....*

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*...172 ip rdelete .....*

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*174 ip rtlist.....*

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*....176 E-SIT-CTC-20021203-0003 v1.0 5 IPoA Commands.....*

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*.... 177 ipoa flush ....*

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*....178 ipoa ifadd.....*

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*...179 ipoa ifattach ..*

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*.....180 ipoa ifconfig...*

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*..181 ipoa ifdelete ...*

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.....183 ipoa ifdetach ....

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.....184 ipoa iflist .

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.....191 mer ifdelete ...

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.193 mer ifdetach.....

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.....194 mer iflist .....

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*.....195 NAT Commands .....*

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*..... 197 nat applist.....*

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*...198 nat bind..*

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.....199 nat bindlist.....

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..200 nat create .....

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*201 nat defserver .....*

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*..203 nat delete .....*

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*204 nat disable .....*

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.....206 nat enable...

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207 nat flush .....

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.....208 nat list ....

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209 nat unbind .....

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*214 phonebook delete.....*

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*...215 phonebook flush..*

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*....216 phonebook list .....*

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*...217 6 E-SIT-CTC-20021203-0003 v1.0 PPP Commands .....*

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*..... 219 ppp flush .....*

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*.....220 ppp ifadd.....*

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*221 ppp ifattach .....*

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*223 ppp ifconfig.....*

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*.225 ppp ifdelete ....*  
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*.230 ppp ifdetach .....*

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*232 ppp iflist .....*  
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.....233 ppp ifscan ....

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.....234 ppp rtadd.....

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*...235 ppp rdelete..*  
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*.....237 PPTP Commands...*  
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*..... 239 pptp flush....*  
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*240 pptp list.....*

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*.....241 pptp profadd...*

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*242 pptp profdelete.....*

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*.....243 pptp proflist ..*

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*..244 QoSBook Commands ...*

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.... 245 qosbook add.....

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..246 qosbook delete...

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.....248 qosbook flush.....

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.....249 qosbook list ....

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250 Software Commands .....

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... 251 software cleanup ..

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*...252 software deletepassive..*

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*...253 software duplicate..*

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*.254 software setpassive...*

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*..255 software switch ...*

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*....256 software version.....*

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.....261 system flush .....

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.....262 system reboot.

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.....263 system reset .

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*..264 system setpassword...*

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*..265 TD Commands ...*

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*267 td call....*

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*.268 UPnP Commands...*

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*269 upnp config .....*

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.....270 upnp flush.....

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.....271 upnp list ..

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.....272 Wireless Commands .....

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..... 273 wireless wepconfig...

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.....274 wireless aclconfig.

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...275 wireless acllist .....

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.....276 wireless acflush .

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.....277 wireless acentry.....

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.....278 wireless ifconfig ...

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....279 wireless status.....

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....281 wireless counters .

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*...282 wireless scan ..*

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*283 wireless flush .....*

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Press ENTER to execute the selected command. EXAMPLE: =>firewall [firewall]=>list assign hook=input chain=input assign hook=sink chain=sink assign hook=forward chain=forward assign hook=source chain=source [firewall]=> "UP ARROW" [firewall]=>:firewall list 16 E-SIT-CTC-20021203-0003 v1.0 Command Line Interface Top Level Structure The following command groups are always available: . . . . . atm bridge cip config dhcp dns env firewall ip ipoa mer nat phonebook ppp pptp qosbook software system id Following command groups are optional: . . . . . adsl (only applicable for the SpeedTouchTM510, SpeedTouchTM570 ADSL/POTS, and the SpeedTouchTM510i and SpeedTouchTM570i ADSL/ISDN variants) eth (only applicable for models equipped with a single 10/100Base-T Ethernet port) upnp (only applicable for the SpeedTouchTM510 and SpeedTouchTM530 variants) wireless (only applicable for the SpeedTouchTM570 variants) E-SIT-CTC-20021203-0003 v1.0 17 Command Line Interface Commands All CLI commands are commands that operate on, or configure, the SpeedTouchTM500Series settings. 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. firewall list).

You can also execute the commands from the command group itself, using the reduced form of the command (e.g. list at the firewall command group selection). ! in a command means NOT ; e.g. the [!]syn parameter in the firewall rule create command. EXAMPLE: =>firewall list assign hook=input assign hook=sink assign hook=forward assign hook=source =>firewall [firewall]=>list assign hook=input assign hook=sink assign hook=forward assign hook=source [firewall]=> chain=input chain=sink chain=forward chain=source chain=input chain=sink chain=forward chain=source 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 firewall assign hook=input chain=input.

To break of such incomplete command press CTRL+G. EXAMPLE: =>firewall assign hook = input chain = input => 18 E-SIT-CTC-20021203-0003 v1.0 Menu-driven CLI Navigation To improve the user-friendliness of the SpeedTouchTM500Series CLI, the CLI features a menu-driven interface. To enter the menu-driven interface, simply execute menu from the CLI prompt: EXAMPLE (for the SpeedTouchTM510): The semi-graphical CLI offers you an attractive and easy-to-use configuration environment for the CLI. You can browse through the CLI command groups via the ARROW keys. Press ENTER to execute your selection. From each level you can select '.' to go back one level up. Use the TAB key to change from the CLI command menu to the control menu and vice versa.

To setup a CLI command, simply press ENTER on its name. You can configure and overview its various parameters at one time. In case the parameter provides preset values, you can go through these via the ARROW keys. If you are satisfied, use the TAB key to go to the OK field and press ENTER. Note Do not forget to save your changes by executing saveall (from any CLI prompt).

E-SIT-CTC-20021203-0003 v1.0 19 Configuration Profile Files and the CLI Configuration Profile Files500Series The configuration profile files, used by the Setup wizard, or directly uploaded via the SpeedTouchTM500Series web pages, consist of a set of CLI commands. Only CLI commands, which are part of the SpeedTouchTM500Series CLI command set may be used in the .ini and .def files.

For readability, configuration profile files are partitioned in paragraphs. These paragraphs reflect a CLI command group selection in the SpeedTouchTM500Series CLI. However, due to internal processing, not all paragraph names are the same as their corresponding CLI command group selection. In the following overview the relationship between the available SpeedTouchTM500Series CLI commands and the [<configuration>.ini] paragraphs is given: [<configuration>.ini] paragraphs [adslisdn.ini] [adslpots.ini] [brfilter.ini] [bridge.ini] [cip.

[ini] [dhcc.ini] [dhcp.ini] [dnsd.ini] [env.ini] [eth.ini] [ip.ini] [ipoa.ini] [mer.ini] [nat.ini] [oam.ini] [pfilter.ini] Available SpeedTouchTM500Series CLI commands The adsl CLI command group in case of a ADSL/ISDN variant. The hidden brfilter CLI command group. The bridge CLI command group. The cip CLI command group. The dhcp client CLI command subgroup. The dhcp server CLI command subgroup. The dns CLI command group. The env CLI command group. The eth CLI command group. The ip CLI command group. The cip CLI command group. The mer CLI command group. The nat CLI command group. The atm oam CLI command subgroup. . . [pfirewall.ini] [phone.ini] [ppp.ini] [pptp.

[ini] [qos.ini] The firewall chain CLI command subgroup The firewall rule CLI command subgroup. The firewall CLI command group (except those part of the firewall chain and firewall rule CLI command subgroups). The phonebook CLI command group. The ppp CLI command group. The pptp CLI command group. The qosbook CLI command group. 20 E-SIT-CTC-20021203-0003 v1.0 [<configuration>.ini] paragraphs [snmp.ini] [system.ini] [wireless.ini] Available SpeedTouchTM500Series CLI commands The snmp CLI command group. The system CLI command group. The wireless CLI command group.

CLI Commands in Configuration Profile Files CLI commands in a paragraph of a configuration profile file should always be constructed in their complete form. Uncompleted CLI commands, i.e. commands in which required parameters are not specified, used in a configuration profile file will be discarded by the CLI command interpreter. This may result in a wrongly configured SpeedTouchTM500Series.

In configuration profile files, the use of customization variables, allow the Setup wizard to invite the end-user to provide some input regarding the settings of the SpeedTouchTM500Series. The declaration of such variables must be done in the [env.ini] paragraph. Further use of the resulting variable TAG is allowed through all other paragraphs, even multiple times. To make sure that a variable always will result in a valid variable TAG, the [env.ini] paragraph also allows to declare a preset value for the variable. In case the variable TAG is used in a CLI command, the value of the variable should always be in conformity with the syntax of the CLI command. Customizing Configuration Profile Files For more information on the customization possibilities of the SpeedTouchTM500Series, the Setup wizard and the configuration profile files, please check the SpeedTouchTM support pages at: <http://www>.



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0 21 Direct FTP Access The SpeedTouchTM500Series File System The SpeedTouchTM500Series permanent storage, further referred to as 'file system', exists of nonvolatile memory responsible for storing, retrieving and maintaining the SpeedTouchTM500Series software image(s), configuration profile files and optionally default settings files. The file system of the SpeedTouchTM500Series is accessible via the FTP transport protocol. This allows to transfer the SpeedTouchTM500Series software image(s) and/or configuration profile files and default settings files. Moreover, via FTP's quote site command you can execute CLI commands from the FTP prompt. Proceed as indicated in the example below to open an FTP session to the SpeedTouchTM500Series file system:

```
/home/doesjohn{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.
```

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138:doesjohn): 331 SpeedTouchTM (00-90-D0-01-02-03) User 'doesjohn' OK. Password required. Password : 330 OK ftp> SpeedTouchTM500Series 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 SpeedTouchTM500Series to boot correctly. The 'active' subdirectory always contains the software image in execution.
```

The 'dl' directory contains dormant software image. In case you have made changes to the SpeedTouchTM500Series configuration and saved them, be it via a Telnet session, via the web pages or via the Setup wizard, a user.ini configuration profile file is created in the 'dl' subdirectory. In other words, after each 'Save all', or config save call, the user.ini configuration profile file present in the 'dl' subdirectory reflects the current configuration of the SpeedTouchTM500Series.

22 E-SIT-CTC-20021203-0003 v1.0 SpeedTouchTM500Series 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, set the transfer mode to "binary". Note EXAMPLE: /home/doesjohn{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:doesjohn): 331 SpeedTouchTM (00-90-D0-01-02-03) User 'doesjohn' OK.
```

```
Password required. Password : 330 OK ftp> ftp>bin 200 TYPE is now 8-bit binary ftp> ftp>hash 200Hash mark printing on (8192 bytes/hash mark). ftp> Turn on the hashing option to see the progression of the file transfer. E-SIT-CTC-20021203-0003 v1.0 23 24 E-SIT-CTC-20021203-0003 v1.
```

0 ADSL Commands ADSL Commands Contents This chapter covers the following commands: Topic adsl config adsl info Page 26 27 E-SIT-CTC-20021203-0003 v1.0 25 ADSL Commands adsl config Show/set the Asymmetric Digital Subscriber Line (ADSL) configuration. Although the same command for both SpeedTouchTM ADSL/POTS and SpeedTouchTM ADSL/ISDN variants, the command features specific parameter values per variant: SYNTAX FOR ADSL/Plain Old Telephone Service (POTS) variants: adsl config [opermode = <{ansi|g.dmt\_annex\_alg.lite|multimode}>] [maxbitspertoneUS = <number{10-14}>] The operational mode of the SpeedTouchTM modem.

Choose between: · · · · ansi g.dmt\_annex\_a g.lite multimode OPTIONAL [opermode] By default the SpeedTouchTM will start in multimode. maxbitspertoneUS A number between 10 and 14 (bits per tone). Represents the maximum number of bits which can be allocated to each ADSL DMT tone in the upstream direction. By default the modem will use up to 13 bits per tone. OPTIONAL SYNTAX FOR ADSL/Integrated Services Digital Network (ISDN) variants: adsl config [opermode = <{etsi|g.dmt\_annex\_b|multimode}>] [maxbitspertoneUS = <number{10-14}>] The operational mode of the SpeedTouchTM modem. Choose between: · · · · ansi g.dmt\_annex\_b multimode OPTIONAL [opermode] By default the SpeedTouchTM will start in multimode.

maxbitspertoneUS A number between 10 and 14 (bits per tone). Represents the maximum number of bits which can be allocated to each ADSL DMT tone in the upstream direction. By default the modem will use up to 13 bits per tone. OPTIONAL Note Executing the :adsl config without specifying parameters, shows the current ADSL configuration. 26 E-SIT-CTC-20021203-0003 v1.0 ADSL Commands adsl info Show ADSL statistics and information about the SpeedTouchTM DSL line status. Although the same command for both SpeedTouchTM ADSL/POTS and SpeedTouchTM ADSL/ISDN variants, the command features specific output parameters and counters per variant: SYNTAX: adsl info EXAMPLE (for a SpeedTouchTM500Series ADSL/POTS variant): =>adsl info Modemstate Operation Mode Channel Mode Number of resets Vendor (ITU) Country Vendor VendorSpecific StandardRevisionNr : : : up G.DMT Annex A fast 1 Local Of ALCB 0000 01 Downstream 25 26 Cells/s 7924 452 [POTS Overlay Mode] : : : Remote Of ALCB 0000 01 Upstream 31 15 Kbit/s 3360 192 Margin Attenuation [dB] [dB] : : Available Bandwidth Downstream : Upstream : Transfer statistics Total since power On Downstream Upstream Current Connection Downstream Upstream Errors Received FEC Received CRC Received HEC Cells : 10153 : 3399 : 10153 : 3399 : 0 : 0 : 0 Kbit 4304 1441 4304 1441 .. Continued output on following page .

```
. E-SIT-CTC-20021203-0003 v1.0 27 ADSL Commands .. Continued output .
```

```
. Far End Failure No Failure Near end failure No failure Far end failures since reset Loss of frame: 0 failures Loss of signal: 0 failures Loss of power: 0 failures Loss of link: 0 failures Errored seconds: 0 seconds Far end failures last 15 minutes Loss of frame: 0 seconds Loss of signal: 0 seconds Loss of power: 0 seconds Loss of link: 0 seconds Errored seconds: 0 seconds Far end failures current day Errored seconds: 0 seconds Far end failures previous day Errored seconds: 0 seconds Near end failures since reset Loss of frame: 0 failures Loss of signal: 0 failures Loss of power: 0 failures Errored seconds: 0 seconds Near end failures last 15 minutes Loss of frame: 0 seconds Loss of signal: 0 seconds Loss of power: 0 seconds Errored seconds: 0 seconds Near end failures current day Errored seconds: 0 seconds Near end failures previous day Errored seconds: 0 seconds => 28 E-SIT-CTC-20021203-0003 v1.
```



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<http://yourpdfguides.com/dref/3820515>



0 ATM Commands ATM Commands Contents This chapter covers the following commands: Topic atm portstats atm oam config atm oam status Note Page 30  
31 32 The command :atm portstats is replaced by the command :atmstats portstats for the SpeedTouchTM570. The command :atmstats portstats is the only  
ATM command for the SpeedTouchTM570. E-SIT-CTC-20021203-0003 v1.

0 29 ATM Commands atm portstats Show port specific Asynchronous Transfer Mode (ATM) statistics. SYNTAX: atm portstats port port =  
<{DSL0|ATM1|ATMF25|ATM3|ATM4|ATM5} or number> The port to show the ATM statistics of. Choose between: . . . . DSL0 ATM ATMF25 ATM3 ATM5  
The parameter DSL0 is replaced by the parameter ADSL0 for the SpeedTouchTM570. REQUIRED Or specify a port number. Note EXAMPLE: =>atm  
portstats port=DSL0 # of received octets = 547649. # of transmitted octets = 191648. # of received cells = 10333. # of transmitted cells = 3616. # of unknown  
cells = 0. # of errors on the input = 0.

# of errors on output = 0. => 30 E-SIT-CTC-20021203-0003 v1.0 ATM Commands atm oam config Configure Operation and Maintenance (OAM) cell  
settings. SYNTAX: atm oam config clp clp = <number{0-1}> The CLP bit value of the OAM cells. Select either: . . . 0 1 REQUIRED E-SIT-  
CTC-20021203-0003 v1.0 31 ATM Commands atm oam status Show OAM data blocking mode of all ports. SYNTAX: atm oam status EXAMPLE: =>atm oam  
status OAM config dump -----CLP bit value : 1 => 32 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands Bridge Commands Contents This  
chapter covers the following commands: Topic bridge config bridge flush bridge ifadd bridge ifattach bridge ifconfig bridge ifdelete bridge ifdetach bridge  
iflist bridge macadd bridge macdelete bridge maclist Page 34 35 36 39 42 44 45 46 48 49 50 E-SIT-CTC-20021203-0003 v1.0 33 Bridge Commands bridge  
config Show/set bridge ageing policy for dynamically learned Medium Access Control (MAC) addresses. SYNTAX: bridge config [age] [age = <number {10 -  
100000}>] OPTIONAL A number between 10 and 100000 (seconds).

Represents the lifetime of a dynamically learned MAC address. By default the ageing timer is 300 seconds. EXAMPLE: =>bridge Ageing : =>bridge  
=>bridge Ageing : => config 300 config age=600 config 600 34 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands bridge flush Flush bridge interfaces  
and parameters. Note SYNTAX: bridge flush The flush command does not impact previously saved configurations.

E-SIT-CTC-20021203-0003 v1.0 35 Bridge Commands bridge ifadd Create a bridged Ethernet interface. 36 E-SIT-CTC-20021203-0003 v1.0 Bridge  
Commands SYNTAX: bridge ifadd [intf = <string>] [dest = <available ETHoA phonebook entries>] The bridged Ethernet interface name. If not specified,  
the destination parameter must be specified.

In this case the name of the destination will double as interface name. The destination address for the new interface. Typically a phonebook entry. Browse  
through the available entries via the ARROW UP and ARROW DOWN keys. OPTIONAL [intf] [dest] OPTIONAL EXAMPLE: =>bridge iflist OBC : Internal  
Connection State: connected Port: OBC PortState: forwarding RX bytes: 75783 frames: 572 TX bytes: 82768372 frames: 341221 dropframes: 0 eth0 :  
Internal Connection State: connected Port: eth0 PortState: forwarding RX bytes: 156344216 frames: 5899238 TX bytes: 75689 frames: 425 dropframes:  
5558017 usb\_bridge : dest : usb\_port Retry : 10 QoS : default Encaps : llc/snap Fcs : off Connection State: connected Port: wan2 PortNr: 4 PortState:  
forwarding RX bytes: 0 frames: 0 TX bytes: 0 frames: 0 dropframes: 0 =>bridge ifadd intf=TestBridge dest=Br1 =>bridge iflist OBC : Internal Connection  
State: connected Port: OBC PortState: forwarding RX bytes: 75783 frames: 572 TX bytes: 82843610 frames: 341554 dropframes: 0 eth0 : Internal  
Connection State: connected Port: eth0 PortState: forwarding RX bytes: 156472129 frames: 5903256 TX bytes: 75689 frames: 425 dropframes: 5561702  
usb\_bridge : dest : usb\_port Retry : 10 QoS : default Encaps : llc/snap Fcs : off Connection State: connected Port: wan2 PortNr: 4 PortState: forwarding RX  
bytes: 0 frames: 0 TX bytes: 0 frames: 0 dropframes: 0 TestBridge : dest : Br1 Retry: 10 QoS: default Encaps: llc/snap Fcs: off Connection State: not-  
connected Port: (Unassigned) PortState: forwarding => E-SIT-CTC-20021203-0003 v1.0 37 Bridge Commands RELATED COMMANDS: bridge ifattach  
bridge ifdetach bridge ifdelete bridge ifconfig bridge iflist Attach a bridge interface. Detach a bridge interface. Delete a bridge interface. Configure a bridge  
interface. Show current bridge configuration.

38 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands bridge ifattach Attach (i.e. connect) a bridged Ethernet interface. E-SIT-CTC-20021203-0003 v1.0 39  
Bridge Commands SYNTAX: bridge ifattach intf intf = <available Bridged Ethernet interfaces> The name of the interface to attach. Browse through the  
available entries via the ARROW UP and ARROW DOWN keys. REQUIRED EXAMPLE: =>bridge iflist OBC : Internal Connection State: connected Port:  
OBC PortState: forwarding RX bytes: 75783 frames: 572 TX bytes: 82843610 frames: 341554 dropframes: 0 eth0 : Internal Connection State: connected  
Port: eth0 PortState: forwarding RX bytes: 156472129 frames: 5903256 TX bytes: 75689 frames: 425 dropframes: 5561702 usb\_bridge : dest : usb\_port  
Retry : 10 QoS : default Encaps : llc/snap Fcs : off Connection State: connected Port: wan2 PortNr: 4 PortState: forwarding RX bytes: 0 frames: 0 TX bytes:  
0 frames: 0 dropframes: 0 TestBridge : dest : Br1 Retry: 10 QoS: default Encaps: llc/snap Fcs: off Connection State: notconnected Port: (Unassigned)  
PortState: forwarding =>bridge ifattach intf=TestBridge =>bridge iflist OBC : Internal Connection State: connected Port: OBC PortState: forwarding RX  
bytes: 75783 frames: 572 TX bytes: 82843610 frames: 341554 dropframes: 0 eth0 : Internal Connection State: connected Port: eth0 PortState: forwarding  
RX bytes: 156472129 frames: 5903256 TX bytes: 75689 frames: 425 dropframes: 5561702 usb\_bridge : dest : usb\_port Retry : 10 QoS : default Encaps :  
llc/snap Fcs : off Connection State: connected Port: wan2 PortNr: 4 PortState: forwarding RX bytes: 0 frames: 0 TX bytes: 0 frames: 0 dropframes: 0  
TestBridge : dest : Br1 Retry: 10 QoS: default Encaps: llc/snap Fcs: off Connection State: connected Port: wan0 PortState: forwarding RX bytes: 75 frames:  
12 TX bytes: 30246 frames: 91 dropframes: 0 => 40 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands RELATED COMMANDS: bridge ifadd bridge  
ifdetach bridge ifdelete bridge ifconfig bridge iflist Create a bridge interface. Detach a bridge interface.  
Delete a bridge interface. Configure a bridge interface. Show current bridge configuration. E-SIT-CTC-20021203-0003 v1.0 41 Bridge Commands bridge  
ifconfig Configure a bridge interface.



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**SYNTAX:** `bridge ifconfig intf = <intfname> [dest = <available interface name>] [qos = <string>] [encaps = <{llc|snap|vcmux}>] [fcs = <{off|on}>] [portstate = <{disabled|learning|forwarding}>] [retry = <number {0-65535}>] intf [dest]` The name of the bridge interface to configure. The destination for this interface. Typically a phonebook entry. This parameter needs only to be specified in case of an interface created without specified destination. The name of the Quality Of Service book entry to apply on this bridge interface.

The type of encapsulation to be used for this bridge interface. Choose between: · · llc/snap vc mux **REQUIRED** **OPTIONAL** [qos] [encaps] **OPTIONAL** [fcs] Whether or not to include the Ethernet FCS in the packet header on the WAN side. Choose between: · · off on **OPTIONAL** [portstate] The bridge portstate for this interface. Choose between: · · disabled learning forwarding **OPTIONAL** [retry] A number between 0 and 65535. Represents the number of WAN connection setup retries before giving up. By default the retry value is 10. In case of a SpeedTouchTM530 device, never change, or delete the usb\_bridge interface! **OPTIONAL** Note 42 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands **EXAMPLE:** `=>bridge iflist intf=TestBridge TestBridge : dest : Br1 Retry: 10 QoS: default Encaps: llc/snap Fcs: off Connection State: connected Port: wan0 PortState: forwarding RX bytes: 75 frames: 12 TX bytes: 30246 frames: 91 dropframes: 0 =>bridge ifconfig intf=TestBridge encaps=vcmux retry=15 =>bridge iflist intf=TestBridge TestBridge : dest : Br1 Retry: 15 QoS: default Encaps: vc mux Fcs: off Connection State: connected Port: wan0 PortState: forwarding RX bytes: 83 frames: 13 TX bytes: 30740 frames: 102 dropframes: 0 => RELATED COMMANDS: bridge ifadd bridge ifattach bridge ifdetach bridge ifdelete bridge iflist Create a bridge interface. Attach a bridge interface. Detach a bridge interface.`

Delete a bridge interface. Show current bridge configuration. E-SIT-CTC-20021203-0003 v1.0 43 Bridge Commands `bridge ifdelete` Delete a bridge interface. **SYNTAX:** `bridge ifdelete intf intf = <available Bridged Ethernet interfaces>` The name of the interface name to delete. Browse through the available entries via the **ARROW UP** and **ARROW DOWN** keys. **REQUIRED** **EXAMPLE:** `=>bridge ifdelete intf=TestBridge =>bridge iflist OBC : Internal Connection State: connected Port: OBC PortState: forwarding RX bytes: 75783 frames: 572 TX bytes: 82843610 frames: 341554 dropframes: 0 eth0 : Internal Connection State: connected Port: eth0 PortState: forwarding RX bytes: 156472129 frames: 5903256 TX bytes: 75689 frames: 425 dropframes: 5561702 usb_bridge : dest : usb_port Retry : 10 QoS : default Encaps : llc/snap Fcs : off Connection State: connected Port: wan2 PortNr: 4 PortState: forwarding RX bytes: 0 frames: 0 TX bytes: 0 frames: 0 dropframes: 0 => Note In case of a SpeedTouchTM530 device, never change, or delete the usb_bridge interface! RELATED COMMANDS: bridge ifadd bridge ifattach bridge ifconfig bridge ifdetach bridge iflist Create a bridge interface. Attach a bridge interface. Configure a bridge interface. Detach a bridge interface.`

Show current bridge configuration. 44 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands `bridge ifdetach` Detach (i.e. disconnect) a bridge interface. **SYNTAX:** `bridge ifdetach intf intf = <available Bridged Ethernet interfaces>` The name of the bridge interface to detach. Browse through the available entries via the **ARROW UP** and **ARROW DOWN** keys. **REQUIRED** **EXAMPLE:** `=>bridge iflist intf=TestBridge TestBridge : dest : Br1 Retry: 10 QoS: default Encaps: llc/snap Fcs: off Connection State: connected Port: wan0 RX bytes: 75 frames: 12 TX bytes: 30246 frames: 91 dropframes: 0 =>bridge ifattach intf=TestBridge =>bridge iflist intf=TestBridge TestBridge : dest : Br1 Retry: 10 QoS: default Encaps: llc/snap Fcs: off Connection State: not-connected Port: (unassigned) => PortState: forwarding PortState: forwarding Note In case of a SpeedTouchTM530 device, never change, or delete the usb_bridge interface! RELATED COMMANDS: bridge ifadd bridge ifattach bridge ifconfig bridge ifdelete bridge iflist Create a bridge interface. Attach a bridge interface. Configure a bridge interface.`

Delete a bridge interface. Show current bridge configuration. E-SIT-CTC-20021203-0003 v1.0 45 Bridge Commands `bridge iflist` Show the current state of all or the selected bridge interfaces. **SYNTAX:** `bridge iflist [intf] [intf = <available Bridged Ethernet interfaces>]` The name of the bridge interface to show the configuration of. Browse through the available entries via the **ARROW UP** and **ARROW DOWN** keys. If not specified all bridge interfaces are shown. **OPTIONAL** **EXAMPLE OUTPUT:** `=>bridge iflist OBC : Internal Connection State: connected Port: OBC PortState: forwarding RX bytes: 75783 frames: 572 TX bytes: 82768372 frames: 341221 dropframes: 0 eth0 : Internal Connection State: connected Port: eth0 PortState: forwarding RX bytes: 156344216 frames: 5899238 TX bytes: 75689 frames: 425 dropframes: 5558017 usb_bridge : dest : usb_port Retry : 10 QoS : default Encaps : llc/snap Fcs : off Connection State: connected Port: wan2 PortNr: 4 PortState: forwarding RX bytes: 0 frames: 0 TX bytes: 0 frames: 0 dropframes: 0 TestBridge : dest : Br1 Retry: 15 QoS: default Encaps: vc mux Fcs: off Connection State: connected Port: wan0 PortState: RX bytes: 83 frames: 13 TX bytes: 30740 frames: 102 dropframes: 0 => forwarding Note In case of a SpeedTouchTM530 device, never change, or delete the usb_bridge interface! 46 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands DESCRIPTION:: RX bytes TX bytes OBC The number of Received bytes The number of Transmitted bytes Short for On Board Controller and indicates the physical bridge port. RELATED COMMANDS: bridge ifadd bridge ifattach bridge ifconfig bridge ifdelete bridge ifdetach Create a bridge interface.`

Attach a created bridge interface. Configure a bridge interface. Delete a bridge interface. Detach a bridge interface. E-SIT-CTC-20021203-0003 v1.0 47 Bridge Commands `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 intf = <available bridge interfaces> hwaddr = <hardware-address>` The name of the bridge interface to add the MAC address for. The MAC address of the new entry. **REQUIRED** **REQUIRED** `intf hwaddr` **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 .`



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=>bridge macadd intf=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, eth0 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 bridge maclist Delete a MAC address entry. Show current filtering database. 48 E-SIT-CTC-20021203-0003 v1.0 Bridge Commands bridge macdelete Remove a MAC address from the filtering database. SYNTAX: bridge macdelete hwaddr hwaddr = <hardware-address> 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, 00:50:8b:31:cc:aa -dynamic, eth0, 08:00:20:c1:9a:12 -dynamic, eth0, .

.. =>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, 00:50:8b:31:cc:aa -dynamic, eth0, 08:00:20:c1:9a:12 -dynamic, eth0, 00:08:c7:c3:5f:fc -dynamic, eth0, ... => 597 seconds 513 seconds 600 seconds 598 379 600 215 seconds seconds seconds seconds RELATED COMMANDS: bridge macadd bridge maclist Add a static MAC address entry. Show current filtering database. E-SIT-CTC-20021203-0003 v1.0 49 Bridge Commands bridge maclist Show current MAC address filtering database. SYNTAX: bridge maclist EXAMPLE: =>bridge maclist =>bridge maclist 00:90:d0:01:02:03 ff:ff:ff:ff:ff:ff 01:80:c2:00:00:00 01:80:c2:00:00:01 ... 01:80:c2:00:00:10 00:80:9f:24:ab:cf 00:01:42:5f:7d:81 00:50:8b:31:cc:aa 08:00:20:c1:9a:12 00:08:c7:c3:5f:fc 08:00:20:a8:f4:34 08:00:20:83:b7:26 00:10:83:1b:13:18 ... => ----- static, static, static, static, static, static, dynamic, dynamic, dynamic, dynamic, dynamic, dynamic, dynamic, OBC OBC OBC OBC OBC eth0, eth0, eth0, eth0, eth0, eth0, 598 379 600 215 600 600 599 seconds seconds seconds seconds seconds seconds seconds seconds RELATED COMMANDS: bridge macadd bridge macdelete Add a static MAC address entry. Delete a MAC address entry. 50 E-SIT-CTC-20021203-0003 v1.0 CIP Commands CIP Commands Contents This chapter covers the following commands: Topic cip flush cip ifadd cip ifdelete cip iflist cip pvcadd cip pvdelete cip pvclist Page 52 53 54 55 57 58 59 E-SIT-CTC-20021203-0003 v1.0 51 CIP Commands cip flush Flush complete Classical IP over ATM (IPoA) configuration. Note SYNTAX: cip flush The flush command does not impact previously saved configurations. 52 E-SIT-CTC-20021203-0003 v1.0 CIP Commands cip ifadd Create a Classical IPoA interface at the local side of the Logical IP Subnet (LIS). SYNTAX: cip ifadd addr = <ip-address> [netmask = <ip-mask (dotted or cidr)>] [uniaddr = <portspec:address[.selector]>] The Classical IPoA interface's local IP address in the LIS. The LIS's subnetmask. The UNI-address/port specification for incoming connections, e.

g. A0:\*04 : ADSL port, any address, selector 3. Only applicable in an Switched Virtual Channel (SVC) environment. In most cases the Classical IPoA LIS is built in a Permanent Virtual Channel (PVC) environment. REQUIRED OPTIONAL OPTIONAL addr netmask uniaddr EXAMPLE: =>cip iflist cip1 addr = 172.16.0.5 mask = 255.255.

255.0 UNI address = A0:\*04 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = =>cip ifadd addr=172.16.1.1 netmask=255.255.255.0 =>cip iflist cip1 addr = 172.16.0.5 mask = 255.255.255.0 UNI address = A0:\*04 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = cip0 addr = 172.16.1.1 mask = 255.255.

255.0 UNI address = A0:\*03 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = => 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 RELATED COMMANDS: cip ifdelete Delete a Classical IPoA interface. Show current Classical IPoA configuration. E-SIT-CTC-20021203-0003 v1.0 53 CIP Commands cip ifdelete Delete a Classical IPoA interface at the local side of the Logical IP Subnet (LIS). SYNTAX: cip ifdelete addr addr = <ip-address> The Classical IPoA interface's local IP address in the LIS. REQUIRED EXAMPLE: =>cip iflist cip0 addr = 172.16.1.1 mask = 255.255.255.0 UNI address = A0:\*03 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = cip1 addr = 172.16.0.5 mask = 255.255.255.

0 UNI address = A0:\*04 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = =>cip ifdelete addr=172.16.1.1 =>cip iflist cip1 addr = 172.16.0.5 mask = 255.255.255.

0 UNI address = A0:\*04 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = => 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 RELATED COMMANDS: cip ifadd cip iflist Create a Classical IPoA interface. Show current Classical IPoA configuration. 54 E-SIT-CTC-20021203-0003 v1.0 CIP Commands cip iflist Show current Classical IPoA configuration. SYNTAX: cip iflist EXAMPLE OUTPUT: =>cip iflist cip0 addr = 172.16.1.1 mask = 255.255.

255.0 UNI address = A0:\*03 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = cip1 addr = 172.16.0.5 mask = 255.255.255.0 UNI address = A0:\*04 inarp\_reqs\_in = 0 inarp\_repl\_in = inarp\_reqs\_out = 0 inarp\_repl\_out = => 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 0 inarp\_inv\_in = inarp\_inv\_out = 0 0 DESCRIPTION: inarp\_reqs\_in/inarp\_reqs\_out inarp\_repl\_in/inarp\_repl\_out inarp\_inv\_in/inarp\_inv\_out Incoming/outgoing inverse ARP requests Incoming/outgoing inverse ARP replies Incoming/outgoing invalid inverse ARP messages EXAMPLE INPUT/OUTPUT: EVOLUTION OF ARP REQUESTS IN A NETWORKED ENVIRONMENT: =>cip iflist cip0 addr = 200.200.200.138 mask = 255.255.255.0 UNI address = A0:\*03 inarp\_reqs\_in = 18 inarp\_repl\_in = 75 inarp\_inv\_in inarp\_reqs\_out = 18 inarp\_repl\_out = 75 inarp\_inv\_out =>cip iflist cip0 addr = 200.200.200.138 mask = 255.

255.255.0 UNI address = A0:\*03 inarp\_reqs\_in = 22 inarp\_repl\_in = 75 inarp\_inv\_in inarp\_reqs\_out = 22 inarp\_repl\_out = 75 inarp\_inv\_out =>cip iflist cip0 addr = 200.200.200.138 mask = 255.255.255.0 UNI address = A0:\*03 inarp\_reqs\_in = 22 inarp\_repl\_in = 76 inarp\_inv\_in inarp\_reqs\_out = 22 inarp\_repl\_out = 76 inarp\_inv\_out => = = 0 0 = = 0 0 = = 0 0 E-SIT-CTC-20021203-0003 v1.0 55 CIP Commands RELATED COMMANDS: cip ifadd cip ifdelete Create a Classical IPoA interface.



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Delete a Classical IPoA interface. 56 E-SIT-CTC-20021203-0003 v1.0 CIP Commands `cip pvcadd` Create a PVC Address Resolution Protocol (ARP) entry for destinations which are not RFC 1577/RFC2225 compliant.

SYNTAX: `cip pvcadd dest = <phonebookname> [destaddr = <ip-address>] [mtu = <number {273-20000}>]` The ATM address (hardware address) of the destination host. Typically a phonebook name. The IP address of the destination host. A number between 273 and 20000 (bytes). Represents the maximum ATM Adaption Layer 5 (AAL5) packet size for this connection.

By default the mtu is 9180 bytes. REQUIRED OPTIONAL OPTIONAL `dest [destaddr] [mtu]` EXAMPLE: `=>phonebook list Name Type Use Address Br1 bridge 1 8.35 Br2 bridge 1 8.36 Br3 bridge 1 8.37 Br4 bridge 0 8.38 RELAY_PPP1 ppp 0 8.48 RELAY_PPP2 ppp 0 8.49 RELAY_PPP3 ppp 0 8.50 RELAY_PPP4 ppp 0 8.51 PPP1 ppp 1 8.`

64 PPP2 ppp 1 8.65 PPP3 ppp 1 8.66 DHCP\_SPOOF ppp 1 8.67 CIPPVC1 cip 0 8.80 CIPPVC2 cip 0 8.81 CIPPVC3 cip 0 8.82 CIPPVC4 cip 0 8.83 =>cip pvclist =>cip pvcadd dest CIPPVC1 destaddr 172.16.1.

2 mtu 546 =>cip pvclist CIPPVC1 atmport = 0 vpi = 8 vci = 80 encaps = llc mtu = 546 => dest\_ip = 172.16.1.2 RELATED COMMANDS: `cip pvdelete` `cip pvclist` Delete a PVC ARP entry. Show current PVC ARP entries.

E-SIT-CTC-20021203-0003 v1.0 57 CIP Commands `cip pvdelete` Delete a PVC ARP entry. SYNTAX: `cip pvdelete dest dest = <phonebookname>` Typically a phonebook entry name. Represents the ATM address (hardware address) or name of the entry to delete. REQUIRED EXAMPLE: `=>cip pvclist CIPPVC1 atmport = 0 encaps = llc =>cip pvdelete dest=CIPPVC1 =>cip pvclist =>vpi mtu = 8 = 546 vci = 80 dest_ip = 172.`

16.1.2 RELATED COMMANDS: `cip pvcadd` `cip pvclist` Create a PVC ARP entry. Show current PVC ARP entries. 58 E-SIT-CTC-20021203-0003 v1.0 CIP Commands `cip pvclist` Show current PVC ARP entries. SYNTAX: `cip pvclist` EXAMPLE OUTPUT: `=>cip pvclist CIPPVC1 atmport = 0 encaps = llc =>vpi = 8 mtu = 546 vci = 80 dest_ip = 172.16.1.2 EXAMPLE INPUT/OUTPUT IN A NETWORKED ENVIRONMENT: =>cip iflist cip0 addr = 200.`

200.200.138 mask = 255.255.255.0 UNI address = A0:\*03 inarp\_reqs\_in = 0 inarp\_repl\_in = 75 inarp\_inv\_in = 0 inarp\_reqs\_out = 0 inarp\_repl\_out = 75 inarp\_inv\_out = 0 =>cip pvclist 699 atmport = 0 vpi = 6 vci = 99 dest\_ip = 172.16.1.3 encaps = llc mtu = 9180 8.

50 atmport = 0 vpi = 8 vci = 50 dest\_ip = 200.200.200.14 encaps = llc mtu = 9180 => RELATED COMMANDS: `cip pvdelete` `cip pvcadd` Delete a PVC ARP entry. Create a PVC ARP entry.

E-SIT-CTC-20021203-0003 v1.0 59 CIP Commands 60 E-SIT-CTC-20021203-0003 v1.0 Config Commands `config erase` Physically remove all saved configurations, i.e.

the user configuration file, saved in the SpeedTouchTM permanent storage, is deleted. SYNTAX: `config erase` RELATED COMMANDS: `config flush` `config load` `config save` Flush complete runtime configuration. Load complete saved or default configuration. Save complete runtime configuration. 62 E-SIT-CTC-20021203-0003 v1.0 Config Commands `config flush` Flush complete current configuration without affecting saved configurations. This combines all flush commands: `bridge flush`, `cip flush`, `dhcp client flush`, `dhcp server flush`, `dns flush`, `env flush`, `firewall flush`, `firewall rule flush`, `ipoa flush`, `mer flush`, `nat flush`, `phonebook flush`, `ppp flush`, `pptp flush`, `qosbook flush`, `system flush` and optionally `ip flush`. SYNTAX: `config flush [flush_ip] [flush_ip = <{no|yes}>]` Keep current IP configuration (yes) or not (no). Not keeping the IP settings could cause lost IP connectivity in the LAN. By default IP settings are preserved.

OPTIONAL EXAMPLE: `=>ip rlist Destination Source 10.0.0.0/24 10.0.0.0/24 172.16.0.5/32 0.0.0/0 10.0.0.140/32 0.0.0.0/0 127.0.0.1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.`

`0/0 172.16.0.0/24 0.0.0.0/0 =>config flush flush_ip=no =>ip rlist Destination Source 10.0.0.0/24 10.0.0.0/24 10.0.0.140/32 0.0.0.0/0 127.0.0.1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.`

`0/0 =>config flush flush_ip=yes Gateway 10.0.0.140 172.16.0.5 10.0.0.140 127.0.0.1 10.0.0.`

`140 172.16.0.5 Intf eth0 cip1 eth0 loop eth0 cip1 Mtrc 0 0 0 0 1 Gateway 10.0.0.140 10.0.0.140 127.0.0.1 10.0.0.`

140 Intf eth0 eth0 loop eth0 Mtrc 0 0 0 0 ### ALL TCP/IP CONNECTIVITY IS LOST ### RELATED COMMANDS: `config erase` `config load` `config save` Physically remove all saved configurations. Load complete saved or default configuration. Save current runtime configuration. E-SIT-CTC-20021203-0003

v1.0 63 Config Commands `config load` Load complete saved or default configuration. Note SYNTAX: `config load [load_ip = <{no|yes}>] [defaults = <{yes|no}>]` Load IP settings (yes) or not (no). Not keeping the IP settings could cause lost IP connectivity in the LAN. Load default configuration (yes) or saved configuration (no). Not specifying this parameter loads the saved configuration OPTIONAL Execute `config flush` prior to `config load`. [load\_ip] [defaults] OPTIONAL EXAMPLE: `=>ip rlist Destination Source 10.0.0.0/24 10.0.0.0/24 172.16.0.5/32 0.0.0/0 10.0.0.140/32 0.0.0.0/0 127.0.0.1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.0/0 172.16.0.0/24 0.0.0.`

`0/0 10.0.0.140/32 0.0.0.0/0 127.0.0.1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.0/0 172.16.0.0/24 0.0.0.`

`0/0 =>config flush flush_ip=no =>ip rlist Destination Source 10.0.0.0/24 10.0.0.0/24 10.0.0.140/32 0.0.0.0/0 127.0.0.1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.0/0 172.16.0.0/24 0.0.0.`

`0/0 =>config flush flush_ip=no =>ip rlist Destination Source 10.0.0.0/24 10.0.0.0/24 10.0.0.140/32 0.0.0.0/0 127.0.0.1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.0/0 172.16.0.0/24 0.0.0.`

`1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.0/0 =>config load load_ip=yes =>ip rlist Destination Source 10.0.0.0/24 10.0.0.0/24 10.0.0.140/32 0.0.0.`



0.0/0 172.16.0.5/32 0.0.0.0/0 127.0.0.

1/32 0.0.0.0/0 10.0.0.0/24 0.0.0.0/0 172.  
16.0.0/24 0.0.0.

0/0 => Gateway 10.0.0.140 172.16.  
0.5 10.0.0.140 127.0.0.1 10.0.0.

140 172.16.0.5 Intf eth0 cip1 eth0 loop eth0 cip1 Mtrc 0 0 0 0 0 1 Gateway 10.0.0.140 10.0.0.140 127.  
0.0.1 10.0.0.

140 Intf eth0 eth0 loop eth0 Mtrc 0 0 0 0 Gateway 10.0.0.140 10.0.  
0.140 172.16.0.5 127.0.0.1 10.0.0.

140 172.16.0.5 Intf eth0 eth0 cip1 loop eth0 cip1 Mtrc 0 0 0 0 0 1 RELATED COMMANDS: config erase config flush config save Physically remove all saved configurations. Flush complete runtime configuration. Save current runtime configuration. 64 E-SIT-CTC-20021203-0003 v1.0 Config Commands config save Save all existing configurations and modifications entered by the user. The result of executing this command is a user.ini file saved in the SpeedTouchTM permanent storage.

This file can be downloaded via the SpeedTouchTM web pages or via an FTP session. SYNTAX: config save EXAMPLE: =>config save => RELATED COMMANDS: config erase config flush config load Physically remove all saved configurations. Flush complete current configuration. Load complete saved or default configuration. E-SIT-CTC-20021203-0003 v1.

0 65 Config Commands 66 E-SIT-CTC-20021203-0003 v1.0 DHCP Commands DHCP Commands Contents Topic dhcp client clear dhcp client config dhcp client flush dhcp client ifadd dhcp client ifattach dhcp client ifconfig dhcp client ifdelete dhcp client iflist dhcp client ifrelease dhcp client ifrenew dhcp client stats dhcp server clear dhcp server config dhcp server flush dhcp server policy dhcp server spoof dhcp server start dhcp server stats dhcp server stop dhcp server lease add dhcp server lease delete dhcp server lease flush dhcp server lease list dhcp server pool add dhcp server pool config dhcp server pool delete dhcp server pool flush dhcp server pool list Page 68 69 70 71 72 73 75 76 77 79 81 82 83 84 85 86 87 88 90 91 93 94 95 96 98 100 101 102 E-SIT-CTC-20021203-0003 v1.



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0 67 DHCP Commands `dhcp client clear` Clear Dynamic Host Configuration Protocol (DHCP) client statistics. SYNTAX: `dhcp client clear` EXAMPLE: `=>dhcp client stats` DHCP client statistics: Corrupted packet recv :0 OFFERS recv :0 ACKs recv :0 NAKs recv :0 Pure BOOTP REPLIES :0 Other message types :0 DISCOVERs sent : 253 REQUESTs sent :9 DECLINEs sent :0 RELEASEs sent :0 INFORMs sent :0 Number of dynamic interfaces: Memory usage: Table size of dyn leases: 19, =>1 in use: 1, free: 94 % 1 in use: 1, free: 94 % RELATED COMMANDS: `dhcp client stats` Show DHCP client statistics. 68 E-SIT-CTC-20021203-0003 v1.

0 DHCP Commands `dhcp client config` Show/set DHCP client configuration. SYNTAX: `dhcp client config [trace] [trace = <{off|on}>]` Enable tracing (on) or not (off). OPTIONAL EXAMPLE: `=>dhcp client config tracing: off =>dhcp client config trace=on =>dhcp client config tracing: on =>` RELATED COMMANDS: `dhcp client ifconfig` Configure a DHCP lease created for a specific interface. E-SIT-CTC-20021203-0003 v1.0 69 DHCP Commands `dhcp client flush` Flush complete DHCP client configuration and dynamic interfaces. Note SYNTAX: `dhcp client flush` The flush command does not impact previously saved configurations. EXAMPLE: `=>dhcp client iflist NewMer : [SELECTING] flags= uc IP address : 10.0.0.10 HW address : 0:90:d0:01:47:de DHCP server : 255.`

255.255.255 hostname : NewLease req.leaseTime= 10800 s trying to get a lease for 8 min, 32 sec transmission of DISCOVER in 57 sec retransmission timeout: 64 nbr of retransmissions: 14 Number of leases: 1 Total size of table: 19, in use: 1, free: 94 % =>dhcp client flush =>dhcp client iflist No dynamic interfaces defined. => 70 E-SIT-CTC-20021203-0003 v1.0 DHCP Commands `dhcp client ifadd` Create a DHCP lease for a specific interface. SYNTAX: `dhcp client ifadd intf intf = <interface name>` The name of an existing interface, e.g. created via `:mer ifadd`. REQUIRED EXAMPLE: `=>dhcp client iflist` No dynamic interfaces defined.

`=>dhcp client ifadd intf=NewMer =>dhcp client iflist NewMer : [INIT] flags= uc IP address : 0.0.0.0 HW address : 00:90:d0:01:47:de DHCP server : 255.255.`

255.255 Number of leases: 1 Total size of table: 19, in use: 1, free: 94 % => RELATED COMMANDS: `dhcp client ifattach` `dhcp client ifconfig` `dhcp client ifdelete` `dhcp client iflist` Attach a DHCP lease to an interface. Configure a DHCP lease created for a specific interface. Delete a dynamic interface. Show all dynamic interfaces.

E-SIT-CTC-20021203-0003 v1.0 71 DHCP Commands `dhcp client ifattach` Attach a DHCP lease to a dynamic interface. Note SYNTAX: `dhcp client ifattach intf intf = <interface name>` The name of the dynamic interface. REQUIRED Create the interface first with `:dhcp client ifadd`. EXAMPLE: `=>dhcp client iflist NewMer : [INIT] flags= uc IP address : 0.0.0.0 HW address : 00:90:d0:01:47:de DHCP server : 255.255.255.`

255 Number of leases: 1 Total size of table: 19, in use: 1, free: 94 % =>dhcp client ifattach intf=NewMer =>dhcp client iflist NewMer : [SELECTING] flags= uc IP address : 10.0.0.10 HW address : 0:90:d0:01:47:de DHCP server : 255.255.255.255 hostname : NewLease req.leaseTime = 10800 s trying to get a lease for 8 min, 32 sec transmission of DISCOVER in 57 sec retransmission timeout: 64 nbr of retransmissions: 14 Number of leases: 1 Total size of table: 19, in use: 1, free: 94 % => RELATED COMMANDS: `dhcp client ifadd` `dhcp client ifconfig` `dhcp client ifrelease` `dhcp client iflist` Create a DHCP lease for a specific interface. Configure a DHCP lease created for a specific interface. Release a lease attached to a dynamic interface.

Show all dynamic interfaces. 72 E-SIT-CTC-20021203-0003 v1.0 DHCP Commands `dhcp client ifconfig` Show/set the configuration of DHCP lease created for a specific interface. Note SYNTAX: `dhcp client ifconfig intf = <interface name> [clidid = <{client-id|none}>] [hostname = <hostname|"">] [addr = <ip-address>] [leaseTime = <number>] [addrtrans = <{none|pat}>] [dns = <{off|on}>] [gateway = <{off|on}>] [metric = <number(0-100)>]` The name of the dynamic interface to be configured. The client identity to be associated with the lease.

Use none in case no clidid should be associated with this lease. The host name of the client to be associated with the lease. Use "" in case no hostname should not be associated with this lease. The preferred dynamic IP address. A number between 0 and 1814400 (seconds).

Represents the preferred time the client wants to use an address. By default the leaseTime is 7200 seconds (2 hours). Specifying -1 makes the lease permanent.

Automatically enable address translation for this dynamic interface (pat) or not (none). Request (and accept) DNS server IP addresses (on) or not (off).

Request (and accept) gateway IP addresses (on) or not (off). A number between 10 and 100000. Represents the gateway route metric By default the gateway route metric is 1. REQUIRED OPTIONAL OPTIONAL OPTIONAL OPTIONAL Execute the `dhcp client ifrelease` command before configuring the `dhcp client`.

`intf [clidid] [hostname] [addr] [leaseTime] [addrtrans] [dns] [gateway] [metric] OPTIONAL OPTIONAL OPTIONAL OPTIONAL` E-SIT-CTC-20021203-0003 v1.

0 73 DHCP Commands EXAMPLE: `=>dhcp client iflist NewMer : [INIT] flags= uc IP address : 0.0.0.0 HW address : 00:90:d0:01:47:de DHCP server : 255.255.255.255` Number of leases: 1 Total size of table: 19, in use: 1, free: 4 % =>dhcp client ifconfig intf=NewMer hostname=NewLease addr=10.0.0.10 leaseTime=10800 =>dhcp client iflist NewMer : [INIT] flags= uc IP address : 10.0.0.10 HW address : 00:90:d0:01:47:de DHCP server : 255.255.255.

255 hostname : NewLease req.leaseTime = 10800 s Number of leases: 1 Total size of table: 19, in use: 1, free: 4 % => RELATED COMMANDS: `dhcp client ifadd` `dhcp client ifdelete` `dhcp client iflist` `dhcp client ifrelease` Create a DHCP lease for a specific interface. Delete a dynamic interface. Show all dynamic interfaces. Release a lease attached to a dynamic interface.

74 E-SIT-CTC-20021203-0003 v1.0 DHCP Commands `dhcp client ifdelete` Delete a dynamic interface. SYNTAX: `dhcp client ifdelete intf intf = <interface name>` The name of the dynamic interface. REQUIRED EXAMPLE: `=>dhcp client iflist NewMer : [SELECTING] flags= uc IP address : 10.0.0.10 HW address : 00:90:d0:01:47:de DHCP server : 255.255.255.255 hostname : NewLease req.`

leaseTime = 10800 s trying to get a lease for 8 min, 32 sec transmission of DISCOVER in 57 sec retransmission timeout: 64 nbr of retransmissions: 14 Number of leases: 1 Total size of table: 19, in use: 1, free: 94 % =>dhcp client ifdelete intf NewMer =>dhcp client iflist No dynamic interfaces defined.



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