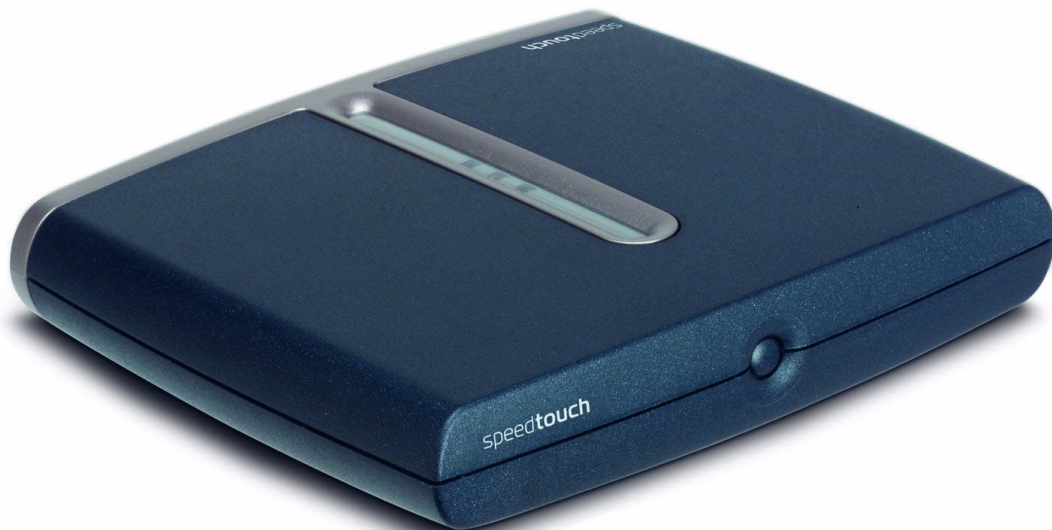


# SpeedTouch™510

Multi-User ADSL Gateways

Customer Release Note  
Release R4.2.3



**THOMSON**

speedtouch™



# SpeedTouch™510

Customer Release Note

Release R4.2.3

Status v2.0  
Change Note PeckelbeenS  
Short Title CRN ST510(i) R4.2.3

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# 1 The SpeedTouch™510 R4.2.3

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**Introduction** The purpose of this Customer Release Note is to provide delivery information and to define the released items of the Release R4.2.3 maintenance release of the Speed-Touch™510 Multi-User ADSL Gateway.

---

**Introducing Release R4.2** This Release R4.2.3 adds many new key features to the SpeedTouch™510 product, including new tools, applications and means to further enhance the services delivered by the SpeedTouch™510 and to improve its long-term reliability for Internet/WAN services.

All these come in addition to the already extended set of features provided in the preceding Release R4.0.x of the SpeedTouch™510 product.

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**Introducing the Maintenance Release R4.2.3** This maintenance release adds no new functionality or features to the Speed-Touch™510 product, but solves several caveats that were detected in the previous R4.2 software.

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**Applicability of this Customer Release Note** This Customer Release Note applies to the following SpeedTouch™ DSL products:

- The SpeedTouch™510 ADSL/POTS Multi-User ADSL Gateway  
The SpeedTouch™510 Switch ADSL/POTS Multi-User ADSL Gateway
- and -
- The SpeedTouch™510i ADSL/ISDN Multi-User ADSL Gateway  
The SpeedTouch™510i Switch ADSL/ISDN Multi-User ADSL Gateway.

## 1.1 SpeedTouch™510(i) Feature Overview

### ADSL features

- Simultaneous high-speed Internet access over ADSL, on top of existing POTS or ISDN services on the same copper line
- ADSL throughput performances of:
  - Up to 8Mb/s downstream
  - Up to 832kb/s upstream for ADSL/POTS, 640kb/s upstream for ADSL/ISDN
- Proven ADSL/POTS and ADSL/ISDN standards compliancy

### Operation and management features

- Operating System independent Multi-User ADSL Gateway
- UPnP certified, full Internet Gateway Device model compliant



- Improved user-friendly HTTP web-based management
- Fail-safe configuration management via:
  - Easy to use multi-language SpeedTouch™Setup wizard application for MS Windows OSs delivered on SpeedTouch™Setup CD-ROM
  - Easy to use embedded multi-language HTTP-driven SpeedTouch™Setup wizard
  - Support for advanced configuration backup, restore and embedded storage of configurations
- Advanced Command Line Interface (CLI) management
- FTP access, allowing for
  - Configuration management

### System software

- Fail-safe SpeedTouch™510 system software management via:
  - Easy to use SpeedTouch™Upgrade wizard application for MS Windows OSs and Mac OS X 10.x
  - Operating System independent Secure BootP system software upgrade mechanism
  - System software upgradeable
  - Digitally signed system software
  - Secure system software Internet download support



## Multi-language support

Multiple language support (MS Windows OSs):

- SpeedTouch™ Setup CD-ROM Browser
- SpeedTouch™ HTTP web-based management and online help pages
- SpeedTouch™ Setup wizard application
- SpeedTouch™ Upgrade wizard application
- Dr SpeedTouch™ application
- SpeedTouch™ NAT manager

## Product security

- System password authentication for all access methods and levels
- Support for HTTP digest authentication
- Integrated full programmable packet firewalling

## Performance and service monitoring features

- Dr SpeedTouch™ application for MS Windows OSs to allow continuous service and performance monitoring and user-friendly troubleshooting
- Basic and advanced diagnostics and monitoring, available from both web pages and CLI.
- Web-based system logging
- Support for SNMPv1.

## local networking and local interface features

- Available with:
  - Four-port 10/100Base-T auto-sensing MDI/MDI-X Ethernet switch
  - or -
  - Single 10/100Base-T auto-sensing MDI/MDI-X Ethernet port
- Full configuration of Ethernet switch functionality, allowing for:
  - Per Ethernet port, port enable/disable
  - Per Ethernet port, auto or fixed communication speed and duplex mode configuration
  - Ethernet port monitoring
  - Ethernet port isolation

**Note** Also available as dual-port Ethernet/USB device (SpeedTouch™530).

Routing services

- IP address multi-homing of SpeedTouch™ 510
- Simultaneous IP Routing to multiple destinations
- Extended IP Routing capabilities, allowing for:
  - Destination IP routing
  - Interface routing
  - Packet classified routing (via programmable packet classification)
  - IP Quality-Of-Service (TOS)

Service transparency features

- Extended IPSec VPN pass-through functionality and transparency supporting simultaneous access from any number of IPSec VPN clients to any number of IPSec VPN servers.
- Improved NAT experience via service specific NAT algorithms for:
  - ESP
  - FTP (including passive FTP)
  - GRE
  - H.323
  - IKE / IPSec pass-through
  - ILS
  - IPv6-to-IPv4
  - IRC
  - JABBER (for the purpose of e.g. instant messaging Voilà Messenger)
  - PPTP
  - RAUDIO(PNA)
  - RTSP
- Support for Multi-NAT (Basic NAT)
- Static NAT configuration
- Default NAT server configuration
- Transparent NAT
- Secured UPnP NAT traversal
- Configuration via SpeedTouch™ NAT Manager application for MS Windows OSs

---

### ATM services

- Over ATM automatic service configuration support:
  - ILMI
  - Auto configuration of Bridged Ethernet on new PVCs
  - Auto configuration of PPPoE Relay on new PVCs
  - Upstream shaping on existing terminated PVCs
- Extended F4/F5 ATM OAM features:
  - Configurable ATM loopback identifier
  - ATM ping command
  - Triggered ATM Continuity Check configuration and initiation

---

### WAN protocol and Internet services

- Supports following Connection Services:
  - Ethernet over ATM
  - PPP over ATM
  - IP over ATM
- Simultaneous support:
  - Bridged Ethernet
  - Routed Ethernet
  - Relayed PPPoA
  - Routed PPPoA
  - Routed IPoA
  - Classical IP over ATM
- Support for PPPoE:
  - Basic Bridged PPPoE
  - Basic Routed PPPoE
  - PPPoE server mode or client mode
- PPPoE Relay extended support:
  - (Multi-) PPPoE pass-through
  - (Multi-) Routed PPPoE
  - PPPoE towards local network.
- Bridge port filtering with pre-defined bridge filters

Local network services

- DHCP server support:
  - Auto-sensing DHCP server start/stop mechanism
  - Per WAN interface DHCP pool configuration and selection
  - IPCP subnet mask DHCP pool propagation support for Routed PPPoA and Routed PPPoE
- DHCP Relay extended support with support for DHCP Relay Agent Information Option
- Network aware auto-IP configuration
- DNS server and forwarding

## 1.2 Release R4.2.3 New Features

Introduction	In the following the extensive list of new and improved features, functionalities and tools provided by Release R4.2.3 is presented as compared to Release R4.0.x.
Managed Ethernet switch	<p>Each of the Ethernet ports of the four-port managed Ethernet switch can be configured:</p> <ul style="list-style-type: none"> <li>• 10/100Base-T, Half/Full Duplex, Negotiation on/off, enabled/disabled</li> <li>• Isolation of Ethernet ports such that no direct (bridged / switched) traffic between Ethernet ports of different groups is possible</li> <li>• Mirroring of a port such that one port can monitor the traffic sent to another port</li> </ul> <p>Management and monitoring of the Ethernet switch is provided via:</p> <ul style="list-style-type: none"> <li>• Diagnostics on SpeedTouch™ web pages and CLI</li> <li>• SNMP MIBs: Bridge MIB in line with IETF RFC1493, Ethernet-Like MIB in line with IETF RFC1643, MIB II Interface in line with IETF RFC1213 and IETF RFC1573 and MAU (Medium Attachment Unit) MIB in line with IETF RFC2668</li> </ul>
ATM QoS, monitoring and management	<ul style="list-style-type: none"> <li>• In addition to the already supported CBR, VBR-nt, and UBR ATM QoS classes, now also VBR-rt is supported (as required for ILMI).</li> <li>• Upstream policing via generation of Continuity Check cells <ul style="list-style-type: none"> <li>• On any ATM PVC, terminated in the SpeedTouch™510</li> </ul> </li> <li>• Configurable ATM loopback identifier for Continuity Check cells, allowing for improved interoperability with BroadBand Access Servers</li> <li>• ATM ping command via ATM F5 loopback cells</li> <li>• Improved ATM statistics via SNMP (RFC2515 ATM MIB support)</li> <li>• Improved ATM statistics via CLI (at port, virtual channel and AAL5 connection)</li> </ul>
ADSL dedicated features	<p>ADSL features:</p> <ul style="list-style-type: none"> <li>• Support of SpeedTouch™510 identification over ADSL EOC protocol</li> <li>• UR-2 compliancy (ADSL/ISDN variants only)</li> </ul>

---

## Auto-PVC and ILMI4.0

The SpeedTouch™510 is able to retrieve information from the network to set up its functionality and protocol stacks without user intervention.

- **Auto-PVC**  
Allows detection of virtual channels via the Alcatel proprietary mechanism for communicating ATM Layer information from DSLAM to the SpeedTouch™510.
- **ILMI**  
Allows for automatic configuration by means of PVC Auto-configuration and ILMI Auto Addendum:
  - **Bridging on new PVCs**  
The SpeedTouch™510 can automatically add new PVCs learned via Auto-PVC or ILMI to the bridge function, and can perform correct upstream shaping in line with the QoS parameters received via Auto-PVC or ILMI.
  - **PPPoE relay on new PVCs**  
The SpeedTouch™510 can automatically add new PVCs learned via Auto-PVC or ILMI to the PPPoE relay function, and can perform correct upstream shaping in line with the QoS parameters received via Auto-PVC or ILMI.
  - **Upstream shaping on existing terminated PVCs**  
The SpeedTouch™510 can automatically adapt the upstream shaping parameters of existing terminated PVCs, in line with the QoS parameters received via Auto-PVC or ILMI.
- **Monitoring and maintenance of the Auto-PVC and ILMI4.0 functionality is provided via the CLI.**

---

## PPPoE Relay and PPPoE pass-through

The SpeedTouch™510 is equipped with PPPoE Relay functionality to allow:

- **PPPoE pass-through**
- **Multi-PPPoE pass-through + Multi-Routed PPPoE + IPoE / MER on one PVC**  
The SpeedTouch™510 simultaneously supports multiple PPPoE sessions from the LAN in parallel to multiple Routed PPPoE sessions from the SpeedTouch™510 and optionally one Routed Ethernet (MER) / IP over Ethernet connection from the SpeedTouch™510 on the same virtual channel.
- **Bridging + Multi-Routed PPPoE on one PVC**  
The SpeedTouch™510 simultaneously supports bridging from the LAN in parallel to multiple Routed PPPoE sessions from the SpeedTouch™510 on the same bridging PVC.
- **PPPoE client/server towards the local network**  
The SpeedTouch™510 supports multiple Routed PPPoE sessions from the SpeedTouch™510 over the Ethernet LAN to the network.

---

## Bridge filtering

The SpeedTouch™510 supports bridge filtering with three pre-defined operation modes: no filtering, no broadcast messages from OBC to the WAN, only PPPoE to the WAN.

---

### PPP authentication configuration

The SpeedTouch™510 allows following PPP authentication modes to be configured by the user:

- Preferred CHAP, allowed PAP
- Force CHAP
- Force PAP

---

### PPP idle session trigger

The SpeedTouch™510 allows to configure whether the session should be considered idle, hence terminated, in case:

- RxTx: no traffic is received and no traffic is sent during idle time
- Rx: no traffic is received during idle time
- Tx: no traffic is sent during idle time

---

### Packet classified IP Routing and SLA/QoS monitoring

- The existing IP Routing functionality of the SpeedTouch™510 has been extended to full packet classified IP Routing.
  - Label configuration via CLI  
Allows to create a set of criteria to classify a traffic stream. The set of criteria is fully to be determined by the user (chains and rules model), and is referred to as 'label'.
  - Packet Classification  
Allows to associate a label to a traffic stream based on source interface, source and/or destination IP address and/or port, protocol and/or DSCP/TOS (Type Of Service) bits or any combination of, as defined by the user in the label configuration.
  - Packet classified IP Routing  
Packet classified routing can be used to send high priority traffic to a high Quality of Service PVC. Packet classified routing extends upon and replaces source routing (since source IP address is one of the criteria that can be used by packet classification to assign a label to a traffic stream).
  - Label-based DSCP/TOS marking  
The SpeedTouch™510 is able to mark the DSCP/TOS bits of routed IP packets based on the label assigned to a traffic stream.
- The SpeedTouch™510 supports Service Level Agreement SLA/QoS monitoring on a one-shot basis by launching an extended trace route command on the CLI from the SpeedTouch™510 to another node in the worldwide IP network, to measure the QoS (round-trip delay) to this other node and all intermediate nodes.
- Allows now for up to 256 IP Routing entries

---

**NAPT algorithms** The SpeedTouch™510 provides new NAPT algorithms for application transparency through the SpeedTouch™510 NAPT engine:

- IPv4-to-IPv6
- Jabber (for the purpose of e.g. Instant Messaging Voilà Messenger)
- FTP algorithm extension for Passive FTP
- IPSec Pass-through

---

**NAPT traversal and Multi-NAT**

- NAPT traversal using UPnP
- Multi-NAT  
NAT with n public IP addresses (in the context of the PPP IPCP subnet mask option or of IPoA / CIP) allowing for:
  - Basic NAT is performed on n public IP addresses, for n servers (with a static NAT entry per server) - no NAT/PAT is performed
  - Basic NAT is performed on n-1 public IP addresses, for n-1 servers (with a static NAT entry per server), and NAT/PAT is performed on 1 public IP address (typically the first IP address of the range) for all other web surfing computers
- Transparent NAT  
If an outgoing packet has a source IP address that is a public IP address, then the source address is not translated.

---

**NAPT manager** The SpeedTouch™510 supports automatic NAPT port configuration for popular Internet applications via the SpeedTouch™ NAPT Manager MS Windows tool, delivered on the standard SpeedTouch™510 Setup CD-ROM.

---

**DHCP Relay functionality**

- The SpeedTouch™510 supports DHCP relay:
- A DHCP request received (using broadcast) over the LAN can be relayed via Unicast or Broadcast to a DHCP server on the WAN-side of the Speed-Touch™510. Multiple simultaneous DHCP unicast destinations are supported to provide DHCP server redundancy.
  - DHCP Relay Agent Information Option  
The SpeedTouch™510 supports the DHCP Relay Agent Information Option.
  - DHCP server lease lock  
The SpeedTouch™510 allows to “lock” a dynamic DHCP leases to a static DHCP lease.



UPnP IGD and UPnP security	<ul style="list-style-type: none"> <li>• The SpeedTouch™510 is a certified UPnP Internet Gateway Device.</li> <li>• For additional UPnP security the SpeedTouch™510 allows to: <ul style="list-style-type: none"> <li>• Disable UPnP functionality</li> <li>• Enable UPnP functionality with - for MS Windows XP systems - following configuration options: <ul style="list-style-type: none"> <li>• Connect/disconnect of Internet connection is permitted or not</li> <li>• Write permission of NAT entries limited to own host</li> <li>• Read-write permission of NAT entries (all hosts)</li> </ul> </li> </ul> </li> </ul>
Note	By default the SpeedTouch™510 has UPnP enabled, connect/disconnect allowed, no read/write restrictions on NAT entries.
Auto-IP configuration	The SpeedTouch™510 supports auto-IP configuration, to support UPnP functionality.
Embedded Easy Setup wizard	<p>The SpeedTouch™510 features an embedded Easy Setup wizard, available from its web pages, by default providing three standard configuration templates:</p> <ul style="list-style-type: none"> <li>• Bridged Ethernet User specified Bridged Ethernet configuration using a fixed IP address for the host computers.</li> <li>• Routed PPPoE Routed PPPoE Packet Service configuration using always-on session connectivity, with enabled PPPoE Relay functionality for PPPoE pass-through.</li> <li>• Routed PPPoA Routed PPPoA Packet Service configuration using always-on session connectivity.</li> </ul> <p>Multiple template files, stored on the SpeedTouch™510 permanent storage provide for additional configuration setups.</p>
Multiple configurations and configuration management	<p>The SpeedTouch™510 allows to store multiple configuration files on its permanent storage.</p> <p>Configuration via the CLI provides for:</p> <ul style="list-style-type: none"> <li>• Save of configuration in custom configuration files</li> <li>• Applying stored configuration files</li> <li>• Stored configuration dump</li> </ul>

---

### Web-based and CLI Diagnostics

- The SpeedTouch™510 provides layer-by-layer Diagnostics via its web pages. Detailed information is provided for:
  - System variables
  - WAN
    - DSL Statistics and properties
    - Per WAN interface [Routed IPoA, Routed Ethernet, Routed PPPoE, routed PPPoA, PPPoE relay, Bridged Ethernet, Classical IP] type, traffic counters, general settings, IP connectivity check information
  - LAN
    - Ethernet, Ethernet switch statistics and properties
- System monitoring via the CLI:
  - SpeedTouch™510 memory and processor load counters

---

### Dr SpeedTouch application

The SpeedTouch™510 supports monitoring and troubleshooting via the Dr SpeedTouch™ MS Windows tool, delivered on standard SpeedTouch™510 Setup CD-ROM.

Dr SpeedTouch™ allows for:

- Status dialog to monitor current network activity
- Systray icon displaying the current device and network status
- Computer, SpeedTouch™510, ISP, internet connectivity diagnosis
- Updateable script-based troubleshooting allowing powerful problem testing and troubleshooting
- Creation of a XML log-file with system and device information
- Sending of log-file to help-desk via e-mail
- Extended monitoring of servers, internet connectivity
- Extended host system information and testing

---

### Customization and internationalisation

- The CD Browser, SpeedTouch™Setup Wizard, Dr SpeedTouch™, SpeedTouch™NAPT Manager and the SpeedTouch™ web pages are provided with following language support:
  - English
  - Dutch
  - French
  - German
  - Italian
  - [Brazilian] Portuguese
  - Spanish
  - Swedish.
- The CD browser, SpeedTouch™Setup Wizard, Dr SpeedTouch™ and SpeedTouch™NAPT Manager allow for customization of functionality and behavior, and graphical appearance.

---

## 1.3 Solved Caveats and Restrictions

### Solved Release R4.0 caveats

---

Apart from the many new and improved features presented in Release R4.2.3, following caveats and restrictions that were present in the previous R4.0 system software, are solved in the current Release R4.2.3:

- 1 Incoming passive FTP connections do not work in case NAPT is enabled.
- 2 Corrupt fragmentation of outgoing ICMP packets with payload sizes bigger than 2952 bytes using a Routed interface.

### Solved Release R4.2 caveats

---

Following caveats and restrictions that were detected in the previous R4.2 system software, are solved in the current Release R4.2.3:

- 1 Sending a crafted fragmented ICMP echo-request (“ping”) from a host on the local network through the SpeedTouch™510 may cause the device to fail service under some circumstances.
- 2 DHCP NACKs are not sent by the SpeedTouch™510 if it answers DHCP renewal for an IP address being not part of any SpeedTouch™510 DHCP address pool.

## 1.4 Release R4.2.3 CLI Command Additions

---

Introduction For your convenience this section provides an overview of all CLI command groups and CLI commands, added in Release R4.2.3 with respect to the previous R4.1.x release.

### 1.4.1 New CLI Commands

---

ATM ping

- atm oam ping

---

Continuity Check generation

- atm oam ccconfig
- atm oam ccsend
- atm oam cclist

---

Improved ATM statistics

- atm vcstats
- atm aal5stats
- atm gstats

---

ILMI

- autopvc config
- autopvc info

---

Multiple configurations and show configuration

- config backup
- config list
- config dump

---

DHCP Relay

- dhcp relay ifconfig
- dhcp relay iflist
- dhcp relay add
- dhcp relay delete
- dhcp relay list
- dhcp relay config
- dhcp relay stats
- dhcp relay flush

---

**Managed switch**

- eth config
- switch group list
- switch group move
- switch group flush
- switch mirror capture
- switch mirror ingress
- switch mirror egress

---

**SLA monitoring**

- ip traceroute

---

**Quality of Service**

- label tron
- label troff
- label add
- label config
- label delete
- label flush
- label list
- label chain create
- label chain delete
- label chain list
- label chain flush
- label rule list
- label rule create

---

**SNMPv1 support**

- snmp config
- snmp get
- snmp getNext
- snmp walk
- snmp list

---

**SpeedTouch™ memory  
and processor load**

- system stats

## 1.4.2 Extended CLI Commands

---

### Renamed CLI commands

- :dhcp server config  
Replaces :dhcp server start and :dhcp server stop
- :ethoa CLI command group  
Replaces :mer CLI command group
- :pppoa and :pppoe CLI command groups  
Replace :ppp CLI command group

---

### Extended CLI commands

- adsl config trace=..
- atm oam config loopbackid=..
- bridge config filter =..
- eth ifconfig int=1..4
- nat bind application=IP6TO4|GRE|PPTP|ESP|IKE port\_end=..
- pppoa ifconfig auth=auto dnsmetric=.. idlettrigger=..
- pppoe ifconfig concentrator=.. auth=auto dnsmetric=.. idlettrigger=..
- qosbook add class=vbr-rt framediscard=..
- system config drst=.. digestauth=.. strictusername=..

## 2 Release History

Release overview The existing SpeedTouch™510 releases are listed in following table:

Release	Identifications	Remarks
R4.0.0	Platform: ADNT-Q	Introduction and initial release
	System software: LLT6AA4.0090 Setup wizard version: v1.2.0.11 Upgrade wizard version: v1.0.0.33	
R4.0.2	Platform: ADNT-Q	Maintenance release
	System software: LLT6AA4.0200 Setup wizard version: v1.2.0.11 Upgrade wizard version: v1.0.0.33	
R4.2	Platform: ADNT-Q	New release
	System software: LLT6AA4.20N Setup wizard version: v4.2.0.15 Upgrade wizard version: v4.2.0.15 SpeedTouch™ NAPT Manager version: v4.2.0.24 Dr SpeedTouch™ version: v1.0.0.17	
R4.2.3	Platform: ADNT-Q	Maintenance release
	System software: LLT6AA4.230 Setup wizard version: v4.2.0.15 Upgrade wizard version: v4.2.0.15 SpeedTouch™ NAPT Manager version: v4.2.0.24 Dr SpeedTouch™ version: v1.0.0.17	





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## 3 Delivered Media

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### Introductory Note

The SpeedTouch™510 offers full customizability and internationalization possibilities, both regarding configuration profile files, wizard settings and the contents of the delivery package.

The generic SpeedTouch™ Setup CD-Rom allows immediate use by the end customer without the need for customization.

It contains the fully functional SpeedTouch™ CD browser application, all SpeedTouch™ tool application and all user documentation, as well as a basic set of configuration profile files.

For more information contact your local sales contact.

## 3.1 Documentation

### General documentation

Item number	Description
E-SIT-CTC-20030415-0001 v1.0	Operator's Customization Guide Release R4.2 (not available yet)
E-SIT-CTC-20030410-0049 v1.0	SpeedTouch™ 500Series CLI Reference Guide Release R4.2
E-DOC-CRN-20030710-0002 v2.0	SpeedTouch™ 510 Customer Release Note Release R4.2.3

### Setup and User's Guides

Item number	Description
E-SIT-CTC-20030306-0003 v1.0	SpeedTouch™ 500Series Setup and User's Guide - English
E-SIT-CTC-20030430-0004 v1.0	SpeedTouch™ 500Series Setup and User's Guide - French
E-SIT-CTC-20030430-0005 v1.0	SpeedTouch™ 500Series Setup and User's Guide - German
E-SIT-CTC-20030430-0006 v1.0	SpeedTouch™ 500Series Setup and User's Guide - Spanish
E-SIT-CTC-20030430-0007 v1.0	SpeedTouch™ 500Series Setup and User's Guide - Portuguese
E-SIT-CTC-20030430-0008 v1.0	SpeedTouch™ 500Series Setup and User's Guide - Italian
E-SIT-CTC-20030430-0009 v1.0	SpeedTouch™ 500Series Setup and User's Guide - Swedish
E-SIT-CTC-20030430-0010 v1.0	SpeedTouch™ 500Series Setup and User's Guide - Dutch

### Certifications

The SpeedTouch™ 510 has been submitted to several certification and patent programs, resulting in a number of formal certificates and patents.

For more information regarding these certificates and patents, check the SpeedTouch™ web pages at [www.speedtouch.com](http://www.speedtouch.com) or contact your local Sales contact.

## 3.2 System Software Versions

### Platform Software

ADNT-Q Software Components			
Component		Identification	Remarks
System software	image file	LLS6_42300.bin	BootP
	operational	LLT6AA4.230	File System
Modem Label		v2.11.28	-
Tag Parser version		v1.2.0	-
Bootloader version		v2.0.6	-

### Single file upgrade components

Single file upgrade executable for MS Windows Operating Systems.:

Single File Upgrade Software Components		
Software Component	Identification	Remarks
Upgrade wizard software version	v4.2.3.0	-

### CD-ROM software components

CD-ROM Software Components		
CD-ROM version v4.2.3.0		
Software Component	Version	Remarks
CD browser	4.2.0.15	-
Setup wizard	4.2.0.15	-
Upgrade wizard	4.2.0.15	-
NAPT manager	4.2.0.24	-
Dr SpeedTouch™	1.0.0.17	-
ini-files version	4.2.0.23	R4.2
System software image	4.2.3.0	BootP



---

## 4 Release R4.2.3 Caveats and Restrictions

### 4.1 General System Software Restrictions

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#### System software restriction 1

When using managed Ethernet switch port mirroring in case both ingress and egress are configured at the same time, reconfiguring those parameters won't have any result.

**Workaround** Don't use ingress and egress at the same time

---

#### System software restriction 2

IPSec VPN clients that use proprietary NAT traversal mechanisms, cannot traverse the SpeedTouch™ 510 IPSec NAT algorithm.

**Workaround** Use standard-compliant IPSec VPN clients, or unbind the Speed-Touch™ 510 NAT IPSec NAT algorithm.

---

#### System software restriction 3

In case a previous version of the SpeedTouch™ Upgrade wizard application was installed on a MAC OS X 10.1/10.2 system, after installation of the v4.2.0.15 version of the SpeedTouch™ Upgrade wizard application it is not possible anymore for the user to run the application.

**Workaround** Make sure any previous version of the SpeedTouch™ Upgrade wizard application is removed from your system prior to installing this version of the application.







[www.speedtouch.com](http://www.speedtouch.com)



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