

SpeedTouch™

545 Wireless-Ready

570 Wireless

Multi-User ADSL Gateways

Customer Release Note

Release R4.2.1



THOMSON

speedtouch™

SpeedTouch™

545/570

Customer Release Note

Release R4.2.1

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1 The SpeedTouch™ R4.2.1

Introduction The purpose of this Customer Release Note is to provide delivery information and to define the released items of the Release R4.2.1 initial release of the SpeedTouch™545 Wireless-Ready Multi-User ADSL Gateway and the SpeedTouch™570 Wireless Multi-User ADSL Gateway.

Introducing Release R4.2.1 This R4.2.1 release introduces the new SpeedTouch™545 Wireless-Ready Multi-User ADSL Gateway and SpeedTouch™570 Wireless Multi-User ADSL Gateway products with THOMSON's latest R4.2 system software functionalities.

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

- The SpeedTouch™545 ADSL/POTS Wireless-Ready Multi-User ADSL Gateway
- The SpeedTouch™545i ADSL/ISDN Wireless-Ready Multi-User ADSL Gateway
- The SpeedTouch™570 ADSL/POTS Wireless Multi-User ADSL Gateway
- The SpeedTouch™570i ADSL/ISDN Wireless Multi-User ADSL Gateway.

1.1 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 Wireless(-Ready) 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 management

System software

- Embedded dual system software management
- Fail-safe SpeedTouch™ 545 and SpeedTouch™ 570 system software management via (supported via wired networking only):
 - 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 via wired networking interface
- 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

SpeedTouch™545 Wireless-Ready Multi-User ADSL Gateway:

- Available with:
 - Four-port 10/100Base-T auto-sensing MDI/MDI-X Ethernet switch
- 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

SpeedTouch™570 Wireless Multi-User ADSL Gateway:

- Available with:
 - Single 10/100Base-T auto-sensing MDI/MDI-X Ethernet port
- Configuration of Ethernet port, allowing for:
 - Ethernet port enable/disable
 - Ethernet port auto or fixed communication speed and duplex mode configuration.

Wireless networking

The SpeedTouch™ 570 Wireless Multi-User ADSL Gateway:

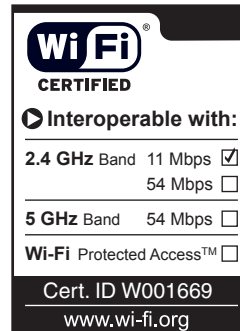
- Features an integrated Wi-Fi® certified IEEE802.11b Wireless access point.

The SpeedTouch™ 545 Wireless-Ready Multi-User ADSL Gateway:

- Is equipped with a PCMCIA card slot to allow users to upgrade the device to a Wi-Fi® certified IEEE802.11b Wireless access point by installing the (seperately available) SpeedTouch™ 010 Wireless Upgrade card.

Wireless Access Point features:

- Wi-Fi® certified IEEE802.1b Wireless access point



- Wi-Fi® Protected Access (WPA) ready
- Radio Certified for FCC, CE, Canada and Australia
- Direct Sequence Spread Spectrum (DSSS) radio channel range
- DSSS radio channel regulatory range compliancy for EU, US, ...
- Automatic radio channel scanning and selection
- Supports fixed radio channel configuration
- Dynamic rate switching at 11, 5.5, 2 and 1Mb/s
- Configurable Service Set ID (SSID) - Wireless Network name
- SSID Broadcasting support
- Wired Equivalent Privacy (WEP) data security support, featuring:
 - 64-bit WEP encryption
 - 128-bit WEP encryption
- MAC address based access control with:
 - Physical registration mechanism
 - Access Control List (ACL) management, allowing for:
 - Up to 64 wireless client entries
 - Access Control List locking
 - Manual wireless client addition or deletion
 - Explicit approval or denial of wireless client connectivity
- DSL to Wireless LAN multicast traffic filtering and blocking
- Extended Wireless access point diagnostics
- Wireless network scanning and monitoring

Routing services

- IP address multi-homing of SpeedTouch™ 545 and SpeedTouch™ 570
- 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.

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 R4.2.1 New Features

Introduction In the following the extensive list of new and improved features, functionalities and tools provided by Release R4.2.1 is presented as compared to the previous Release R2.0 of the SpeedTouch™570 Wireless ADSL router.

Hardware SpeedTouch™570 Wireless Multi-User ADSL Gateway:

- Further improved new hardware platform with BootLoader support

SpeedTouch™545 Wireless-Ready Multi-User ADSL Gateway:

- New product introduction
- New hardware platform with BootLoader support
- Equipped with PCMCIA card slot to allow for Wireless networking
- Equipped with four-port managed Ethernet switch

SpeedTouch™545 Wireless-Ready The SpeedTouch™545 Wireless-Ready Multi-User ADSL Gateway is equipped with a PCMCIA card slot to allow users to upgrade the device to a Wi-Fi® certified IEEE802.11b Wireless access point by installing the (seperately available) Speed-Touch™010 Wireless Upgrade card.

Managed Ethernet switch Each of the Ethernet ports of the four-port managed Ethernet switch can be configured (SpeedTouch™545 only):

- 10/100Base-T, Half/Full Duplex, Negotiation on/off, enabled/disabled
- Isolation of Ethernet ports such that no direct (bridged / switched) traffic between Ethernet ports of different groups is possible
- Mirroring of a port such that one port can monitor the traffic sent to another port

Management and monitoring of the Ethernet switch is provided via:

- Diagnostics on SpeedTouch™ web pages and CLI
- 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

Managed Ethernet port The Ethernet port can be configured:

- 10/100Base-T, Half/Full Duplex, Negotiation on/off, enabled/disabled

Management and monitoring of the Ethernet port is provided via:

- Diagnostics on SpeedTouch™ web pages and CLI
- 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

ATM QoS, monitoring and management

- In addition to the already supported CBR, VBR-nt, and UBR ATM QoS classes, now also VBR-rt is supported (as required for ILMI).
- Upstream policing via generation of Continuity Check cells
 - On any ATM PVC, terminated in the SpeedTouch™545
- Configurable ATM loopback identifier for Continuity Check cells, allowing for improved interoperability with BroadBand Access Servers
- ATM ping command via ATM F5 loopback cells
- Improved ATM statistics via SNMP (RFC2515 ATM MIB support)
- Improved ATM statistics via CLI (at port, virtual channel and AAL5 connection)

ADSL dedicated features

ADSL features:

- Support of SpeedTouch™545 and SpeedTouch™570 identification over ADSL EOC protocol
- UR-2 compliancy (ADSL/ISDN variants only)

Auto-PVC and ILMI4.0

The SpeedTouch™545 and SpeedTouch™570 are 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™545 or SpeedTouch™570.
- **ILMI**
Allows for automatic configuration by means of PVC Auto-configuration and ILMI Auto Addendum:
 - **Bridging on new PVCs**
The SpeedTouch™545 and SpeedTouch™570 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™545 and SpeedTouch™570 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™545 and SpeedTouch™570 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™ 545 and SpeedTouch™ 570 are both equipped with PPPoE Relay functionality to allow:

- PPPoE pass-through
- Multi-PPPoE pass-through + Multi-Routed PPPoE + IPoE / MER on one PVC
The SpeedTouch™ 545 and SpeedTouch™ 570 both simultaneously support multiple PPPoE sessions from the LAN in parallel to multiple Routed PPPoE sessions from the SpeedTouch™ 545 or SpeedTouch™ 570 and optionally one Routed Ethernet (MER) / IP over Ethernet connection from the SpeedTouch™ 545 or SpeedTouch™ 570 on the same virtual channel.
- Bridging + Multi-Routed PPPoE on one PVC
The SpeedTouch™ 545 and SpeedTouch™ 570 both simultaneously support bridging from the LAN in parallel to multiple Routed PPPoE sessions from the SpeedTouch™ 545 or SpeedTouch™ 570 on the same bridging PVC.
- PPPoE client/server towards the local network
The SpeedTouch™ 545 and SpeedTouch™ 570 both support multiple Routed PPPoE sessions from the SpeedTouch™ 545 or SpeedTouch™ 570 over the Ethernet LAN to the network.

PPP authentication configuration

The SpeedTouch™ 545 and SpeedTouch™ 570 allow following PPP authentication modes to be configured by the user:

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

PPP idle session trigger

The SpeedTouch™ 545 and SpeedTouch™ 570 allow 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™545 and Speed-Touch™570 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™545 is able to mark the DSCP/TOS bits of routed IP packets based on the label assigned to a traffic stream.
- The SpeedTouch™545 and SpeedTouch™570 support Service Level Agreement SLA/QoS monitoring on a one-shot basis by launching an extended trace route command on the CLI from the SpeedTouch™545 or SpeedTouch™570 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™545 and SpeedTouch™570 provide new NAPT algorithms for application transparency through the SpeedTouch™545 and SpeedTouch™570 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™ 545 and SpeedTouch™ 570 support automatic NAPT port configuration for popular Internet applications via the SpeedTouch™ NAPT Manager MS Windows tool, delivered on the standard SpeedTouch™ 545/570 Setup CD-ROM.

DHCP Relay functionality

The SpeedTouch™ 545 and SpeedTouch™ 570 support 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 SpeedTouch™ 545 or SpeedTouch™ 570. Multiple simultaneous DHCP unicast destinations are supported to provide DHCP server redundancy.
 - DHCP Relay Agent Information Option
The SpeedTouch™ 545 and SpeedTouch™ 570 both support the DHCP Relay Agent Information Option.
 - DHCP server lease lock
The SpeedTouch™ 545 and SpeedTouch™ 570 both allow to “lock” a dynamic DHCP leases to a static DHCP lease.
-

UPnP IGD and UPnP security

- Both the SpeedTouch™ 545 and SpeedTouch™ 570 are certified UPnP Internet Gateway Devices.
- For additional UPnP security the SpeedTouch™ 545 and SpeedTouch™ 570 allow to:
 - Disable UPnP functionality
 - Enable UPnP functionality with - for MS Windows XP systems - following configuration options:
 - Connect/disconnect of Internet connection is permitted or not
 - Write permission of NAT entries limited to own host
 - Read-write permission of NAT entries (all hosts)

Note By default the SpeedTouch™ 545 and SpeedTouch™ 570 have UPnP enabled, connect/disconnect allowed, no read/write restrictions on NAT entries.

Auto-IP configuration	The SpeedTouch™ 545 and SpeedTouch™ 570 support auto-IP configuration, to support UPnP functionality.
Embedded Easy Setup wizard	<p>The SpeedTouch™ 545 and SpeedTouch™ 570 feature an embedded Easy Setup wizard, available from its web pages, by default providing three standard configuration templates:</p> <ul style="list-style-type: none"> • Bridged Ethernet User specified Bridged Ethernet configuration using a fixed IP address for the host computers. • Routed PPPoE Routed PPPoE Packet Service configuration using always-on session connectivity, with enabled PPPoE Relay functionality for PPPoE pass-through. • Routed PPPoA Routed PPPoA Packet Service configuration using always-on session connectivity. <p>Multiple template files, stored on the SpeedTouch™ 545 and SpeedTouch™ 570 permanent storage provide for additional configuration setups.</p> <p>Note The wireless access point settings are not affected by the embedded wizard</p>
Multiple configurations and configuration management	<p>The SpeedTouch™ 545 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"> • Save of configuration in custom configuration files • Applying stored configuration files • Stored configuration dump
Web-based and CLI Diagnostics	<ul style="list-style-type: none"> • The SpeedTouch™ 545 provides layer-by-layer Diagnostics via its web pages. Detailed information is provided for: <ul style="list-style-type: none"> • System variables • WAN <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Ethernet, Ethernet switch statistics and properties • Wireless LAN <ul style="list-style-type: none"> • Wireless access point statistics and properties • Wireless networking statistics and properties • Wireless sites monitoring • System monitoring via the CLI: <ul style="list-style-type: none"> • SpeedTouch™ 545 and SpeedTouch™ 570 memory and processor load counters

Dr SpeedTouch application

The SpeedTouch™ 545 and SpeedTouch™ 570 support monitoring and troubleshooting via the Dr SpeedTouch™ MS Windows tool, delivered on standard SpeedTouch™ 545/570 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™ 545, 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 R2.0 caveats

Apart from the many new and improved features presented in Release R4.2.1, following caveats and restrictions that were present in the previous R2.0 system software, are solved in the current Release R4.2.1:

- 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.
- 3 Blocked Ethernet traffic when manually changing the Ethernet port configuration from 10M/s to 100Mb/s. When changing from 100Mb/s to 10Mb/s no problem was seen.

Solved Release R4.2 caveats

Following caveats and restrictions that were detected in previous R4.2 system software releases of other SpeedTouch™ devices, are solved in this Release R4.2.1:

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

1.4 Release R4.2.1 CLI Command Additions

Introduction For your convenience this section provides an overview of all CLI command groups and CLI commands, added in Release R4.2.1 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

Wireless Access Point

- wireless channelconfig
- wireless multicast
- wireless monitor

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=..
- wireless ifconfig basic = number{1-4}

2 Release History

Release overview

The existing SpeedTouch™570 and SpeedTouch™545 releases are listed in following table:

Release	Identifications	Remarks
R1.0	Platform: ADNT-O	Introduction and initial release
	System software: KXGCAA1.003	
R2.0	Platform: ADNT-U	New hardware and software release
	System software: LHWXAA2.023 Setup wizard version: v1.2.0.11	
R4.2.1	Platform: ADNTA-A	New hardware and software release SpeedTouch™545 introduction
	System software: ZZYZFAA4.219 (binary file: ZZYL_4219.bin) Setup wizard version: v4.2.1.4 Upgrade wizard version: v4.2.1.0. SpeedTouch™ NAPT Manager version: v4.2.0.24 Dr SpeedTouch™ version: v1.0.0.17	

3 Delivered Media

Introductory Note

The SpeedTouch™545 and SpeedTouch™570 offer full customizability and internationalization possibilities, both regarding configuration profile files, wizard settings and the contents of the delivery package.

The generic SpeedTouch™545/570 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 Product Codes

SpeedTouch™545
products

ADSL/POTS variant

Area	Item number	Description
ROW	DSLGP683JE	SpeedTouch™545 Ethernet switch ADSL/POTS
US	DSLGP883JE	
Bulk	DSLBA683JE(B)	SpeedTouch™545 Ethernet switch ADSL/POTS No Power supply

ADSL/ISDN variant

Area	Item number	Description
ROW	DSLGP683KE	SpeedTouch™545i Ethernet switch ADSL/ISDN
Bulk	DSLBA683KE(B)	
		SpeedTouch™545i Ethernet switch ADSL/ISDN No Power supply

SpeedTouch™570
products

ADSL/POTS variants

Area	Item number	Description
ROW	DSLGP684JE	SpeedTouch™570 Ethernet port IEEE802.11b AP - ETS compliant wireless channel range (1-13) ADSL/POTS
US	DSLGP884JE	SpeedTouch™570 Ethernet port IEEE802.11b AP - FCC compliant wireless channel range (1-11) ADSL/POTS
Bulk ETS	DSLBA684JE(B)	SpeedTouch™570 Ethernet port IEEE802.11b AP - ETS compliant wireless channel range (1-13) ADSL/POTS No Power supply
Bulk FCC	DSLNP603GP	SpeedTouch™570 Ethernet port IEEE802.11b AP - FCC compliant wireless channel range (1-11) ADSL/POTS No Power supply

ADSL/ISDN variants

Area	Item number	Description
ROW	DSLGP684KE	SpeedTouch™570i Ethernet port IEEE802.11b AP - ETS compliant wireless channel range (1-13) ADSL/ISDN
Bulk ETS	DSLBA684KE(B)	SpeedTouch™570i Ethernet port IEEE802.11b AP - ETS compliant wireless channel range (1-13) ADSL/ISDN No Power supply

SpeedTouch™010
Wireless upgrade card

Available SpeedTouch™010 Wireless upgrade cards for the SpeedTouch™545(i):

Area	Item number	Description
ROW	DSL22010RW	SpeedTouch™010 Wireless upgrade card
Bulk ETS	DSL22010RB	ETS compliant channel range (1-13)
US	DSL22010US	SpeedTouch™010 Wireless upgrade card FCC compliant channel range (1-11)

3.2 Documentation

General documentation

Item number	Description
E-SIT-CTC-20030415-0001 v1.0	Operator's Customization Guide Release R4.2
E-SIT-CTC-20030410-0049 v2.0	SpeedTouch™ 500Series CLI Reference Guide Release R4.2
E-DOC-CRN-20031202-0002 v1.0	SpeedTouch™ 545/570 Customer Release Note - Release R4.2.1

Setup and User's Guides

Item number	Description
E-DOC-CTC-20030814-0001 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - English
E-DOC-CTC-20030910-0013 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - French
E-DOC-CTC-20030910-0015 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - German
E-DOC-CTC-20030910-0016 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - Spanish
E-DOC-CTC-20030910-0017 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - Portuguese
E-DOC-CTC-20030910-0018 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - Italian
E-DOC-CTC-20030910-0019 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - Swedish
E-DOC-CTC-20030910-0020 v1.0	SpeedTouch™ 545/570 Setup and User's Guide - Dutch

Certifications

The SpeedTouch™ 545 and SpeedTouch™ 570 have 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 or contact your local Sales contact.

3.3 System Software Versions

Platform Software

ADNTA-A Software Components			
Component		Version	Identification
System software	BootP image file	4.2.1.9	ZZYL_4219.bin
	Operational	4.2.1.9	ZZYFAA4.219
Modem Label		2.11.28	MOD_SACHEM_SEA_CPE
Tag Parser version		1.2.0	-
Bootloader version		2.1.1	-

Single file upgrade components

Single file upgrade executable for MS Windows Operating Systems.:

Single File Upgrade Software Components		
Software Component	Version	Identification
Upgrade wizard software version	4.2.1.9	-

CD-ROM software components

CD-ROM version v4.2.1.2			
Windows software component		Version	Identification
CD Browser		4.2.0.15	-
Setup Wizard		4.2.1.4	-
Upgrade Wizard		4.2.1.0	-
NAPT Manager		4.2.0.24	-
Dr SpeedTouch™	Installer	1.0.0.17	ZZZ9
	application		-
	plugin		-
Generic component		Version	Identification
ini/tpl-files version		4.2.1	-
System software image		4.2.1.9	ZZYL

4 Release R4.2.1 Caveats and Restrictions

4.1 General System Software Restrictions

System software restriction 1	<p>When using managed Ethernet switch port mirroring in the case where both ingress and egress are configured at the same time, reconfiguring those parameters won't have any result.</p> <p>Workaround Don't use ingress and egress at the same time</p>
System software restriction 2	<p>IPSec VPN clients that use proprietary NAT traversal mechanisms, cannot traverse the SpeedTouch™545 IPSec NAT algorithm.</p> <p>Workaround Use standard-compliant IPSec VPN clients, or unbind the Speed-Touch™545 NAT IPSec NAT algorithm.</p>
System software restriction 3	<p>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.</p> <p>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.</p>
System software restriction 4	<p>The DSL to Wireless LAN multicast traffic filtering functionality is only applicable for traffic coming from a WAN hardware bridge interface, not from a Routed WAN interface.</p> <p>Workaround None.</p>
System software restriction 5	<p>The :wireless channelconfig parameters are not saved, i.e. after a power cycle the default channel range configuration as defined by the Wireless Access Point hardware is restored.</p> <p>Workaround Make sure to use the appropriate SpeedTouch™570, or Speed-Touch™010 Wireless Upgrade card (in case of a SpeedTouch™545) for the allowed radio channel regulatory range of your location.</p>



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