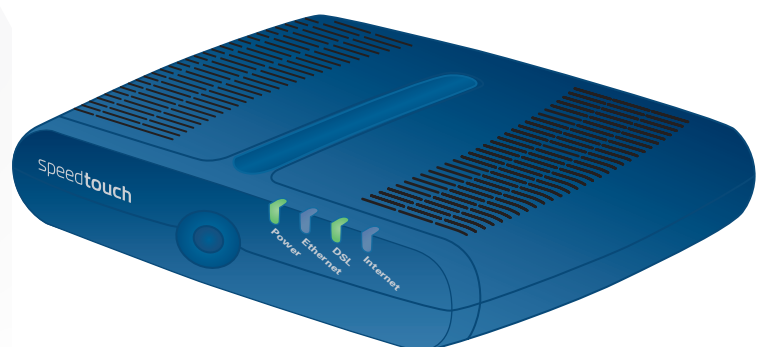


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Thomson ST516_{v6}/536_{v6}/546_{v6}
Customer Release Note R6.2.T

Thomson

ST516v6/536v6/546v6

Customer Release Note
R6.2.T

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About this Customer Release Note

Introduction

The purpose of this Customer Release Note is to provide delivery information and to define the released items of the Software Release R6.2.T for the Thomson Gateway.

Audience

This Customer Release Note is intended to provide a detailed overview on all aspects of this release towards Thomson (technical) sales responsables, technical support groups and direct customers.

Applicability of this Customer Release Note

This release is applicable to all following Thomson Gateway DSL product software releases:

Slotted Release R6.2.T Thomson Gateway Residential ADSL Gateways and Routers:

- > Thomson ST516v6
- > Thomson ST536v6
- > Thomson ST546v6

Typographical conventions



A **note** provides additional information about a topic.



A **caution** warns you about potential problems or specific precautions that need to be taken.

Documentation and software updates

Thomson continuously develops new solutions, but is also committed to improve its existing products.

For more information on Thomson's latest technological innovations, documents and software releases, visit us at www.Thomson-Broadband.com.

1 Release Overview

In this chapter

This chapter covers the following topics:

| Topic | See |
|------------------------------------|-----|
| Product Release Portfolio Overview | 1.1 |
| New Features for this Release | 1.2 |

1.1 Product Release Portfolio Overview

Introduction

This section summarizes the overall Thomson Gateway DSL Gateways and Routers product portfolio and its evolution during subsequent releases.



For each Thomson Gateway product,

- > the initial release (if covered) is indicated with ★,
- > an applicable release is indicated with ✓,
- > a non-applicable release is not marked,
- > a last supported release (up till the current release) is indicated with ◆.

Residential ADSL Gateways

| DSL product (board mnemonic) | R6.1.0 | R6.1.9 | R6.2.0 | R6.2.F | R6.2.G | R6.2.H | R6.2.T |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Thomson ST510v6 (BANT-U) | ✓ | ✓ | ◆ | | | | |
| Thomson ST516 (BANT-J) | ✓ | ◆ | | | | | |
| Thomson ST516v6 (BANT-V) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thomson ST530v6 (BANT-U) | ✓ | ◆ | | | | | |
| Thomson ST536 (BANT-J) | ✓ | ◆ | | | | | |
| Thomson ST536v6 (BANT-V) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thomson ST546 (BANT-J) | ✓ | ◆ | | | | | |
| Thomson ST546v6 (BANT-V) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Wireless Residential ADSL Gateways

| DSL product (board mnemonic) | R6.1.0 | R6.1.9 | R6.2.0 | R6.2.F | R6.2.G | R6.2.H | R6.2.T |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Thomson ST576v6 (BANT-3) | | | | | | ★ | ✓ |
| Thomson ST585v6 (BANT-W) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thomson ST585v6 HP (BANT-9) | | ★ | ✓ | ✓ | ◆ | | |

VoIP-enabled Residential ADSL Gateways

| DSL product (board mnemonic) | R6.1.0 | R6.1.9 | R6.2.0 | R6.2.F | R6.2.G | R6.2.H | R6.2.T |
|---|--------|--------|--------|--------|--------|--------|--------|
| Thomson ST716v5 (BANT-T) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST716v5 WL (BANT-T) | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST706 (BANT-S) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thomson ST706 WL (BANT-S) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thomson ST780 (BANT-R) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thomson ST780 WL (BANT-R) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thomson ST780 DeXtenTion (BANT-8, ID=0) | | | | ★ | ✓ | ✓ | ✓ |
| Thomson TG790 (CANT-A) | | | | ★ | ✓ | ✓ | ✓ |

Business DSL Routers

| DSL product (board mnemonic) | R6.1.0 | R6.1.2 | R6.1.9 | R6.2.0 | R6.2.F | R6.2.G | R6.2.H | R6.2.T |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Thomson ST605 (BANT-O, ID=0) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST605i (BANT-O, ID=0) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST605m (BANT-O, ID=0) | | | | | ★ | ✓ | ✓ | ✓ |
| Thomson ST605s 2-wire (SHNT-E, ID=1) | | | ★ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST605s 4-wire (SHNT-E, ID=0) | | | ★ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST608 (BANT-O, ID=1) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST608i (BANT-O, ID=1) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST608m (BANT-O, ID=1) | | | | | ★ | ✓ | ✓ | ✓ |
| Thomson ST608 WL (BANT-G, ID=0) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST608i WL (BANT-G, ID=0) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST608m WL (BANT-G, ID=0) | | | | | ★ | ✓ | ✓ | ✓ |
| Thomson ST620 (BANT-G, ID=1) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST620i (BANT-G, ID=1) | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Thomson ST620m (BANT-G, ID=1) | | | | | ★ | ✓ | ✓ | ✓ |
| Thomson ST620s (SHNT-D) | | | ★ | | ✓ | ✓ | ✓ | ✓ |

1.2 New Features for this Release

New Product Introduction

This release introduces no new products.

New Feature

This release introduces the following new feature:

- > Zero Touch Implementation

Overview

No new general features were added. For a description of features that were added as a result of issue reporting, refer to section 2.1 Solved Technical Issues .

2 Known Restrictions, Solved and Known Technical Issues

Overview

This chapter covers the following topics:

| Topic | Page |
|-------------------------|------|
| Solved Technical Issues | 10 |
| Known Technical Issues | 11 |

2.1 Solved Technical Issues

Overview

The following issues have been solved in this release:

- > WLAN Vista Interoperability Issues
- > Zero Touch Implementation
- > Wireless Interoperability Issue with Vista

WLAN Vista Interoperability Issues

Description:

When sending data via FTP from a Vista system to a WinXP system over a ST product, the ftp get fails.

Status:

A solution has been developed, tested and verified.

Zero Touch Implementation

Description:

A request was made to include the zero touch facility in the default configuration of the Thomson Gateway. Zero-Touch implementation uses a unique factory pre-configured user name for the broadband connection of each modem with the format: OUI-NS @ prodigyweb.com.mx, where:

- > **OUI:** Organizationally Unique Identifier according IEEE
- > **NS:** Serial Number (12 characters)

A password of 30 characters generated through a defined hash function which takes a long string or message of any length as input and produces a fixed length string as output, sometimes termed a message digest or a digital fingerprint).

Status:

Zero Touch configuration has been added as a feature.

Wireless Interoperability Issue with Vista

Description:

When trying to FTP from a Vista system to a WinXP system over a ST product, the ftp get fails

Status:

A solution has been developed, tested and verified.

2.2 Known Technical Issues

Overview

The following technical issues are known for this release:

- > DSD Restriction
- > Debug commands
- > Thomson Gateway May Not Be Turned Off During Boot
- > Web Browsing Interception May Fail to Appear
- > No Warning When Loading an incorrect Configuration
- > Domain Routing via Different DNSs is Not Working
- > Browser Stops Site Download

DSD Restriction

Description

When Website filtering is activated (URL white- or blacklisting), the maximum amount of simultaneous web-surfing TCP connections is around 20, depending on the type of connection.

Workaround

If you need more users, set Web Browsing Interception to either, automatic mode i.e. Web Browsing Interception will only be activated when the DSL or PPP is down, or disable it altogether (set to disabled).

DSD can be disabled via the Thomson Gateway web GUI:

- 1** Go to **SpeedTouch > Configuration > Configure**,
- 2** Select **disabled** or **automatic** for **Web Browsing Interception**.

Debug commands

Description

Usage of the debug commands will lead to loss of DSL or IP connectivity. Use these commands only when specifically approved by Thomson.

Workaround

None.

Thomson Gateway May Not Be Turned Off During Boot

Description:

If the Thomson Gateway is shut down during boot, it gets stuck in BOOTP mode. This is actually not a restriction as such, but the normal result of a feature. When the Thomson Gateway changed from dual to single partition routers, a backup plan was necessary in case the active (and only) build would get corrupted, or in case the modem couldn't start. The BootP mechanism was implemented to recover from such a situation. This mode allows the routers to be always recoverable, by having the router entering BootP mode. The router then expects a BootP server, with a TFTP server to upload a new build.

To succeed, the router must be able to detect when the booting has failed. If the modem detects that it did not finish its boot sequence completely, it will enter BootP mode. A side-effect of this mechanism is that, if you unplug (or turn off in any way) a router during its boot sequence, it will start in BootP the next time.

Workaround:

Wait for the Thomson Gateway to finish booting before turning it off.

Web Browsing Interception May Fail to Appear

Description:

If:

- > the DSL line is down, and
- > DSD is set to "automatic"

the Web Browsing Interception page fails to appear.

Workaround:

Change DSD setting to "enabled".

No Warning When Loading an incorrect Configuration

Description:

When loading an incorrect configuration, the system does not return a warning

Workaround:

None.

Domain Routing via Different DNSs is Not Working

Description:

It is not possible to do specific domain routing to different DNS servers over 2 different IP Interfaces.

Workaround:

Add the DNS routes in the DHCP client.

Browser Stops Site Download

Description:

Using a PPPoA and Single-user configuration (PPTP), the browser stops the site download in the middle of a website after 1-2 minutes of HTTP website downloading (e.g. half of an image is loaded).

The problem occurs when many small requests are sent (e.g. many small images.) The problem seldom or never shows up with streaming media or pings.

An ethereal trace (aon-http3-checksum.pcap) shows that some HTTP packets have wrong checksums.

Workaround:

None.

Description:

More information required.

Status:

This issue is under investigation.

3 Release Product Firmware

Introduction

The slotted release R6.2.T has been made available for following Thomson Gateway DSL products:

- > Thomson ST516v6(i)/536v6(i)/546v6(i)

3.1 Detailed firmware information

Thomson ST516v6(i)/536v6(i)/546v6(i)

| BANT-V Software Components | | | |
|----------------------------|--|-----------------|---------|
| Component | | Identification | Remarks |
| Firmware | bootloader image | ZZQ2AA6.2T2.bli | RTEMS |
| ADSL/POTS modem label | bcm96338_V1.0.152_ADSL_PHY_A2pBT009j.d18 | | |
| ADSL/ISDN modem label | bcm96338_V1.0.152_ADSL_PHY_B2pBT007d.d18 | | |
| Tag Parser version | | v2.0.0 | - |
| BANT-V Boot Loader version | | v1.0.6 | - |



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