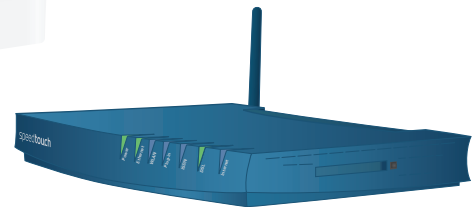
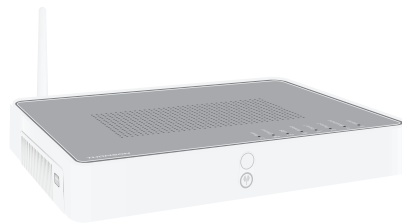


Thomson Gateway

Residential DSL Gateways and Business DSL Routers



Customer Release Note

Main Track Release R7.4.4

Thomson Gateway

Customer Release Note

Main Track Release R7.4.4

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Contents

About this Customer Release Note

Applicability

This Main Track Release R7.4.4 has been made available for following Thomson Gateway products:

- THOMSON ST products:
 - ▶ THOMSON ST516(i) v6 / 536(i) v6/ 546(i) v6
 - ▶ THOMSON ST585(i) v6
 - ▶ THOMSON ST620s
 - ▶ THOMSON ST780(i) WL
 - ▶ THOMSON ST780(i) DeXtenTion
- THOMSON TG products:
 - ▶ THOMSON TG546(i)v v7
 - ▶ THOMSON TG576(i) v7
 - ▶ THOMSON TG585(i) v7
 - ▶ THOMSON TG585(i)n
 - ▶ THOMSON TG587(i)n
 - ▶ THOMSON TG605(i)
 - ▶ THOMSON TG605s
 - ▶ THOMSON TG608(i)
 - ▶ THOMSON TG780(i) Business
 - ▶ THOMSON TG787(i)
 - ▶ THOMSON TG787(i)v

Typographical Conventions

Following typographical convention is used throughout this manual:

- **Sample text** indicates a hyperlink to a Web site.
Example: For more information, visit us at www.thomson-broadband.com.
- **Sample text** indicates an internal cross-reference.
Example: If you want to know more about guide, see "1 Introduction" on page 7".
- **Sample text** indicates an important content-related word.
Example: To enter the network, you **must** authenticate yourself.
- **Sample text** indicates a GUI element (commands on menus and buttons, dialog box elements, file names, paths and folders).
Example: On the **File** menu, click **Open** to open a file.

About this Customer Release Note

Used Symbols



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 improving its existing products.

For more information on Thomson's latest technological innovations, documents and software releases, visit us at <http://www.thomson-broadband.com>.

1 Release Overview

In this chapter

This chapter covers the following topics:

Topic	See
1.1 Product Release Portfolio Overview	1.1
1.2 Major Features and Fixes 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 ◆.
- a customer acceptance release is marked CAR

Residential ADSL2+ Gateways

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson ST516(i) v6 (BANT-V)	✓	✓	✓	✓		
Thomson ST536(i) v6 (BANT-V)	✓	✓	✓	✓		
Thomson ST546(i) v6 (BANT-V)	✓	✓	✓	✓		

Residential VDSL2 Gateways

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson TG546(i)v v7 (VDNT-C)	CAR	★	✓	✓		

Wireless Residential ADSL2+ Gateways

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson ST576(i) v6 (BANT-3)	✓	◆				
Thomson ST585(i) v6 (BANT-W)	✓	✓	✓	✓		
Thomson TG576(i) v7 (CANT-P)	CAR	★	✓	✓		
Thomson TG585(i) v7 (CANT-P)	CAR	★	✓	✓		

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson TG585(i)n (CANT-J)		★	✓	✓		
Thomson TG587(i)n (CANT-O)		CAR	★	✓		

VoIP-enabled Residential ADSL2+ Gateways

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson ST706(i) WL (BANT-S)	✓	✓	◆			
Thomson ST780(i) WL (BANT-R)	✓	✓	✓	✓		
Thomson ST780(i) DeXtenTion (BANT-8, ID=0)	✓	✓	✓	✓		
Thomson TG787(i) (CANT-G)	CAR	CAR	★	✓		

VoIP-enabled Residential VDSL2 Gateways

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson TG787(i)v (VDNT-D), ID=0)	CAR		★	✓		

Business ADSL2+ Routers

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson ST605 (BANT-O, ID=0)	◆					
Thomson ST605i (BANT-O, ID=0)	◆					
Thomson ST605m (BANT-O, 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)	✓	✓	✓	✓		

Release Overview

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
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 TG605 (CANT-R, ID=0)		CAR	★	✓		
Thomson TG605i (CANT-R, ID=0)		CAR	★	✓		
Thomson TG608 (CANT-R, ID=1)		CAR	★	✓		
Thomson TG608i (CANT-R, ID=1)		CAR	★	✓		

Business SHDSL Routers

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson ST620s (SHNT-D)	✓	✓		✓		
Thomson TG605s 2-wire (SHNT-G, ID=1)		CAR		✓		
Thomson TG605s 4-wire (SHNT-G, ID=0)		CAR		✓		

VoIP-enabled Business ADSL2+ Routers

DSL product (board mnemonic)	R7.4.1	R7.4.2	R7.4.3	R7.4.4		
Thomson TG780(i) Business (BANT-8 ID=1)	CAR	CAR	★	✓		

1.2 Major Features and Fixes for this Release

New product introduction

This release introduces no new products.

Customer acceptance program

For certain products, a customer acceptance release, based on this R7.4.4 release may exist. Contact your Thomson sales representative for more information.

General new features and fixes

These new features and fixes apply to all Thomson Gateway products.

The following features and/or corrections are added:

- ***CWMP and TR-069 remote management***
 - ▶ After a remote firmware upgrade of the Thomson Gateway with CWMP, the connection request port is not changed (compared to the port number before the upgrade).
- ***GUI, Visual Identity and localization***
 - ▶ On the GUI the DSL Bandwidth is displayed correctly.
 - ▶ All references to “SpeedTouch” have been removed in the service templates of Thomson Gateway products.
 - ▶ GUI/FEH Translation Projects are available per individual software delivery.
- ***Local and broadband networking***
 - ▶ ARP priority class and PPP priority class per link (p-bits) are configurable via the CLI.

Product(-range) specific new features and fixes

These new features and fixes apply to a specific product (range).

The following features and/or corrections are added:

- ***applicable to VDSL2 products: only***
 - ▶ The VDSL2 interface can be used on VLAN IDs 13 and higher.
 - ▶ Auto-detect ADSL(2+)/VDSL2
- ***applicable to SHDSL products only:***
 - ▶ The Tip/Ring information retrieved from the **:shdsl1 info** CLI command provides correct information on the actual pinning.

Voice over IP (VoIP) specific features

These new features and fixes apply to all VoIP-enabled products.

The following features and/or corrections are added:

■ ***applicable to SIP service and SIP Server service only:***

- ▶ A call coming from the FXO can now be routed to FXS port 1, FXS port 2 (if available) or all FXS ports.
- ▶ A re-INVITE message using Digest Authentication to respond to a SIP server's "401 unauthorized" allows the Thomson Gateway to authenticate correctly.
- ▶ The SIP engine of the Thomson Gateway sends out its REGISTER messages at the rate set by the registration timer value instead of pseudo-randomly.
- ▶ Support for Call Forwarding Splash ring pattern.
- ▶ Going on hook and off hook ends the current call and retakes a waiting call.
- ▶ Additional call waiting option: upon receiving a second incoming call, the system can be configured to either accept (and put in wait) or reject (and terminate) the waiting call.
- ▶ Secondary proxy and registrar are now configurable via GUI.

■ ***applicable to MGCP VoIP service only:***

- ▶ Incoming calls on the FXO port will not fail after detaching the PPP interface.

2 Release Product Firmware

2.1 Introduction

The release R7.4.4 has been made available for following Thomson Gateway DSL products:

- **THOMSON ST products:**
 - ▶ THOMSON ST516(i) v6 / 536(i) v6/ 546(i) v6
 - ▶ THOMSON ST585(i) v6
 - ▶ THOMSON ST620s
 - ▶ THOMSON ST780(i) WL
 - ▶ THOMSON ST780(i) DeXtenTion
- **THOMSON TG products:**
 - ▶ THOMSON TG546(i)v v7
 - ▶ THOMSON TG576(i) v7
 - ▶ THOMSON TG585(i) v7
 - ▶ THOMSON TG585(i)n
 - ▶ THOMSON TG587(i)n
 - ▶ THOMSON TG605(i)
 - ▶ THOMSON TG605s
 - ▶ THOMSON TG608(i)
 - ▶ THOMSON TG780(i) Business
 - ▶ THOMSON TG787(i)
 - ▶ THOMSON TG787(i)v

2.2 Detailed firmware information

2.2.1 THOMSON ST products

THOMSON ST516(i) v6 / 536(i) v6/ 546(i) v6

BANT-V Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZQ2AA7.447.bli	RTEMS
	operational firmware	ZZQ0AA7.447	RTEMS
ADSL/POTS modem label	bcm96338_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96338_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYRIAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.6	-

THOMSON ST585(i) v6

BANT-W Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZQIAA7.447.bli	RTEMS
	operational firmware	ZZQGAA7.447	RTEMS
ADSL/POTS modem label	bcm96348_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96348_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYRHAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.8	-

THOMSON ST620s

SHNT-D Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZMCAA7.447.bli	RTEMS
	operational firmware	ZZMIAA7.447	RTEMS
SHDSL modem label	MOD_MODEMDEVCTRL_INFSOC_BEIJ_V1.0.166		
Translation project		ZYQ3AA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.0	-

THOMSON ST780(i) WL

VoIP - SIP

BANT-R SIP Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZOHAA7.447.bli	RTEMS
	operational firmware	ZZOGAA7.447	RTEMS
ADSL/POTS modem label	bcm96348_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96348_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYRQAA7.448.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.6	-

VoIP - SIP Server

BANT-R SIP Server Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZI0AA7.447.bli	RTEMS
	operational firmware	ZZHZAA7.447	RTEMS
ADSL/POTS modem label	bcm96348_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96348_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYRNAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.6	-

THOMSON ST780(i) DeXtenTion

VoIP - SIP

BANT-8(0) SIP Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZJVAA7.447.bli	GoLinux BLI-image
	bootloader image	ZZHDAA7.447.rbi	GoLinux RBI-image
ADSL/POTS modem label	bcm96348_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96348_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYRWAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.6	-

2.2.2 Thomson TG Products

THOMSON TG546(i)v v7

VDNT-C Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZH8AA7.447.bli	RTEMS
	operational firmware	ZZH6AA7.447	RTEMS
ADSL/POTS modem label	bcm96358_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96358_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYPTAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.7	-

THOMSON TG576(i) v7

CANT-P Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ5YAA7.447.bli	RTEMS
	operational firmware	ZZ5XAA7.447	RTEMS
ADSL/POTS modem label	bcm96338_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96338_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYQJAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.1	-

THOMSON TG585(i) v7

CANT-P Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ5YAA7.447.bli	RTEMS
	operational firmware	ZZ5XAA7.447	RTEMS
ADSL/POTS modem label	bcm96338_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96338_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYQJAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.1	-

THOMSON TG585(i)n

CANT-J Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZBTAA7.447.bli	GoLinux BLI-Image
	bootloader image	ZZBSAA7.447.rbi	GoLinux RBI-Image
ADSL/POTS modem label	bcm96358_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96358_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYQQAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.2	-

THOMSON TG587(i)n

CANT-O Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ1NAA7.447.bli	Golinux BLI-Image
	bootloader image	ZZ1MAA7.447.rbi	Golinux RBI-Image
ADSL/POTS modem label	bcm96358_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96358_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYQLAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.1	-

THOMSON TG605(i)

CANT-R(0) Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ2LAA7.447.bli	RTEMS
	operational firmware	ZZ2KAA7.447	RTEMS
ADSL/POTS modem label	bcm96348_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96348_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYQFAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.2	-

THOMSON TG605s

4-wire SHDSL

SHNT-G(0) Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ2WAA7.447.bli	RTEMS
	operational firmware	ZZ2VAA7.447	RTEMS
SHDSL modem label	MOD_MODEMDEVCTRL_INFOSOC_BEIJ_V1.0.166		
Translation project		ZYPYAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.1	-

2-wire SHDSL

SHNT-G(1) Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ2RAA7.447.bli	RTEMS
	operational firmware	ZZ2QAA7.447	RTEMS
SHDSL modem label	MOD_MODEMDEVCTRL_INFOSOC_BEIJ_V1.0.166		
Translation project		ZYPZAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.1	-

THOMSON TG608(i)

CANT-R(1) Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ2GAA7.447.bli	RTEMS
	operational firmware	ZZ2FAA7.447	RTEMS
ADSL/POTS modem label	bcm96348_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96348_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYQEAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.2	-

THOMSON TG780(i) Business

VoIP - SIP Server Business

BANT-8 (1) SIP Server Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZK1AA7.447.bli	RTEMS
Firmware	bootloader image	ZZK0AA7.447	RTEMS
ADSL/POTS modem label	bcm96348_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96348_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYRVAA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.6	-

THOMSON TG787(i)

VoIP - SIP

CANT-G SIP Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ73AA7.447.bli	GoLinux BLI-image
	bootloader image	ZZ72AA7.447.rbi	GoLinux RBI-image
ADSL/POTS modem label	bcm96358_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96358_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project		ZYR0AA7.447.tgz	TRM/TRP-file
Tag Parser version		v2.0.0	-
Boot Loader version		v1.0.1	-

VoIP - MGCP

CANT-G MGCP Software Components			
Component		Identification	Remarks
Firmware	bootloader image	ZZ6XAA7.447.bli	GoLinux BLI-image
	bootloader image	ZZ6WAA7.447.rbi	GoLinux RBI-image
ADSL/POTS modem label	bcm96358_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96358_V1.0.173_ADSL_PHY_B2pBT010j.d20h		

Release Product Firmware

CANT-G MGCP Software Components		
Component	Identification	Remarks
Translation project	ZYQZAA7.447.tgz	TRM/TRP-file
Tag Parser version	v2.0.0	-
Boot Loader version	v1.0.1	-

THOMSON TG787(i)v

VoIP - SIP Server

VDNT-D(0) SIP Server Software Components			
Component	Identification	Remarks	
Firmware	bootloader image	ZYYRAA7.44A.bli	GoLinux BLL-image
	bootloader image	ZYYQAA7.44A.rbi	GoLinux RBI-image
ADSL/POTS modem label	bcm96358_V1.0.173_ADSL_PHY_A2pBT010j.d20h		
ADSL/ISDN modem label	bcm96358_V1.0.173_ADSL_PHY_B2pBT010j.d20h		
Translation project	ZYPVAA7.44A.tgz	TRM/TRP-file	
Tag Parser version	v2.0.0	-	
Boot Loader version	v1.0.2	-	

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