



## Hotwire™ 5546 RTU Setup Firmware Update Description

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### Hotwire 5546 RTU Setup Overview

The Hotwire™ 5546 RTU (Remote Termination Unit) interoperates with the Hotwire DSL 8546 Card. Information has been added here that applies to the *Hotwire DSLAM for 8540 and 8546 DSL Cards User's Guide*, Document No. 8000-A2-GB20-30. Keep this document with your Hotwire DSLAM (Digital Subscriber Line Access Multiplexer) system 8546 DSL card documentation.

The Hotwire 5546 RTU supports a variety of customer premises distribution networks that contain IP forwarding devices or routers, in addition to locally attached hosts or subnets. The Hotwire 5546 RTU has an IP Routing Table that is updated through an SNMP agent. The configuration table contains IP address and subnet mask information.

For Hotwire 5546 RTU installation details, refer to *Hotwire 5546 RTU Customer Premises Installation Instructions*, Document No. 5546-A2-GN10.

### Hotwire Firmware Version Numbers

For compatibility with Hotwire 5546 RTU Firmware Release 1.00.05, the DSLAM system must have the following (or higher) versions of firmware:

Hotwire Component	Firmware Version Number
5546 RTU	1.00.05
8000 MCC Card	2.03.15
8100/8200 IPC	3.2.3
8546/8540 DSL Card	2.03.15

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## Hotwire 5546 RTU Screen Updates

The following screens have been modified in the DSL 8546 Card Firmware Release 2.03.15 to support the Hotwire 5546 RTU.

### ■ RTU Selection

*Configuration → RTU → Selection (A-H-A)*

Three fields have been added to this screen. The new fields only appear on the RTU Selection screen when the RTU Type selected is 5546.

- **CAP Rev.** – CAP Version. This field is read-only.
- **Reset RTU** – Yes/No. When you enter **Yes** to reset the RTU, a selftest is initiated. This field is read-only.
- **RTU Selftest Results** – Pass/Fail. The results display after a selftest is completed. This field is read-only.

SNMP trap support has been added for the 5546 RTU Pass/Fail selftest results. Refer to *Additional SNMP Trap* on page 3.

The screenshot shows a terminal window titled "RTU Selection" with a "<no name>" header and "R:" on the right. The main content area displays the following information:

```
Port #: 4
RTU Type:      5546
System Name:   <noname>
System Contact: <nobody>
System Location: <nowhere>
System Circuit ID: <none>
Model Num:
Serial Num:
Firmware Rev:
Hardware Rev:
CAP Rev:

                WARNING:
Entering 'Yes' in the 'Reset RTU' field will temporarily disrupt the data
path on the specified DSL port while the SN resets.

Reset RTU?:
RTU Selftest Results:
```

At the bottom of the screen, there is an input prompt: "Input System Circuit ID: Hotwire 8800: DSL04: 8546: \_ \_ R U D D X X".

### ■ Login History

*Monitoring → RTU → Information (B-A-B)*

One field has been added to this screen:

- **Time** – Time the user logged into the system. This field is read-only.

#### **NOTE:**

This field has also been added to the MCC Login History screen.

■ **RTU Information**

*Monitoring → RTU → Information (B-F-A)*

Six fields have been added to this screen. The new fields only appear on the DSL 8546 Card RTU Information screen when the RTU Type selected is 5546. The DTE fields display the Hotwire 5546 RTU serial interface status.

- **CAP Rev.** – CAP Version. This field is read-only.
- **DTE State** – In Service/Out of Service. Data Terminal Equipment (DTE) state of the 5546 RTU.
- **DTE Config** – V.35/EIA530. DTE electrical interface of the 5546 RTU.
- **DTE Timer** – Internal/External. Transmit timing source. Internal synchronous clock is generated by the DCE. External timing source is obtained from the DTE.
- **DTE Strobe** – Falling Edge/Rising Edge. DTE data strobe type of the 5546 RTU.
- **DTE Loopback** – On/Off. DTE local loopback status of the 5546 RTU.

RTU Information	<no name>	R:
Port #: 4		
RTU Type:	5546	
System Name:	<noname>	
System Contact:	<nobody>	
System Location:	<nowhere>	
System Circuit ID:	<none>	
Model Num:		DTE State:
Serial Num:		DTE Config:
Firmware Rev:		DTE Timer:
Hardware Rev:		DTE Strobe:
CAP Rev:		DTE Loopback:
DSL Port #:		
Hotwire 8800: DSL04: 8546: _ _ R U D D X X		

## Additional SNMP Trap

The following SNMP trap has been added to the DSL 8546 Card Firmware Release 2.03.15 for the 5546 RTU.

Trap	Severity	Comment	Trap	MIB
xdsIRtuSelfTestFail	Warning	The 5546 RTU connected to the DSL port has a selftest failure indicated by ifIndex.	# 16	xdsl

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## Line Rates

The following line rates apply to the DSL 8546 Card Firmware Release 2.03.15:

- The 768 kbps line rate is now available in rate adaptive mode; it is not available in fixed mode.
- The 90.66 kbps upstream line rate is not available when a 136 kbps downstream line rate has been selected.
- If a 90.66 kbps upstream line rate is selected with a 136 kbps downstream line rate (except for 640 kbps), the DSL card will automatically set the upstream line rate to 272 kbps.

## Maximum Line Rate

The Hotwire 5546 RTU is designed to operate with branch routers that typically do not support throughput rates greater than 2 Mbps. Although the 8546 DSL Card user interface allows setting the downstream line rate up to 7.168 Mbps, the performance cannot be guaranteed above 2.56 Mbps.

## Ordering Information

Contact your sales or service representative to order product documentation about the Hotwire system.

Paradyne documents are also available on the World Wide Web at:

<http://www.paradyne.com>

Select *Service & Support* → *Technical Manuals*

## Document Feedback

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