



TDL GATEWAY WIRELESS MODEM INSTALLATION PROCEDURES

TDN 07103-10179

May 8, 2012

CORPORATE HEADQUARTERS:

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TDL GATEWAY MODEM

DOCUMENT UPDATES

October 5, 2011 Original

May 8, 2012 Section 6, added step to ensure DHCP enabled in ATM

The TDL Gateway (WM) is a wireless communications device providing high speed TCP/IP data transfer. The device is applicable to the following ATMs:

X2 - RL1600, RL2000, RL5000, FT5000, RT2000 (with 10.4" display only)

XScale - RL5000

Traverse

PARTS IN KIT 06200-00179

09110-01221	TDL Gateway Modem	1 ea
01270-00010	Antenna	1 ea
09120-07060	USB Communication cable X2 ONLY	1 ea
02051-00069	Double sided tape 1" x 1" square	4 ea

The following parts are to be used on an XScale ATM only. Do not use on X2. Omit the USB cable used on X2s, it is replaced by the Serial cable and power cable.

09120-00816 Power cable for wireless modem

09120-00313 Serial Communications cable. (green)

Assorted zip ties, 2" Grommet

This procedure describes the steps necessary to install the TDL Gateway Wireless Modem. Software update files are required.

Software Requirement

LOAD SOFTWARE BEFORE PROCEEDING

**IF YOU ARE USING TRITON CONNECT, YOU MUST ALSO
UPDATE THE TRITON CONNECT COMPUTER USING TC5.5SP1
AVAILABLE ON THE TRITON PARTNER WEBSITE**

Software has been provided on the Triton partner website.

Put the applicable software for your ATM on a USB device.

Follow the instructions on the next page to load all of the software files necessary.

Note step 4 (four) is unique to XScale ATMs (or anytime doing a full load xd file, as opposed to an update xu file).

DO NOT PLUG IN THE MODEM AND START THE ATM UNTIL ALL SOFTWARE HAS BEEN INSTALLED!

ATM must be at a minimum 2.4.0 with service packs and SSL certificates loaded

Software Installation:

- Check *Management > Terminal Status > Configuration Summary > Program Version*.
- If “Program Version” is earlier than 2.4.0, the application will need to be upgraded using the following instructions, must be completed before proceeding:
 1. With USB flash drive inserted, go to *Management > Terminal Status > Save Parameters To External Storage*. Press ENTER to continue.
 2. Go to *Management > System Parameters > Software Update* and select load file:
 3. System will restart and install software.
 4. *For XScale only, or any full load (xd)*, also do the following:
 - After system boots, login to Management Functions and select “us.tsf” when prompted for country option. Press ENTER to accept verification screen.
 - Select “Restore Parameters from External Storage” and select file saved in step 1. Press ENTER to accept verification screen.
 - Review optional screen and optional screen button settings in *Management > Terminal Status > Configuration Summary* to confirm everything is correct.

Service Pack Installation:

Repeat steps 2 & 3 to load the applicable Service Pack. Service Packs are required.

Software to Update to 2.4.0 (if Unit is already 2.4.0 proceed to the service packs)

- **xd20xcsf2.4.0.tlf** - X1 (XScale)
Inside web site file: **2_4_0 US XScale 10_4 color.exe**
- **xu30xcsf2.4.0.tfv** - (X2 8” or 10.4” display)
Inside web site file: **2_4_0 US X2 8 and 10.4.exe**
- **xu30dcsf2.4.0.tfv** - (X2 5.7” display)
Inside web site file: **2_4_0 US X2 5_7.exe**
- **Traverse** - No update required

Service Packs to load

- **xu20xcmn2.4.0sp4a.tlf** - X1 (XScale) US Update (must install on US 2.4.0)
Inside web site zip file: **XScale_2.4.0_TDL Gateway Modem.exe**
- **xu30xcmn2.4.0sp4a.tfv** - X2 US Update (must install on US 2.4.0)
Inside web site zip file: **X2_2.4.0_TDL Gateway Modem.exe**
- **xu30xcmn3.0.0sp3.tfv** - Traverse US Update (must install on US 3.0.0)
Inside web site zip file: **X2_3.0.0_TDL Gateway Modem.exe**

SSL Certificate Load Files *(if more than 1 are listed, install both load files):*

SSL files are required to allow the ATM to communicate with your host/processor more securely. Some files are loaded in the updates you just performed. Use the chart below to determine the additional files required for your ATM.

•Go to *Management > System Parameters > Software Update* and select load file(s) from table below to enable SSL for the specified processor, if this has not been installed previously.

- System will restart and install software.
- After system restarts, go to *Management > System Parameters > Restart Terminal* again.

NOTE: This second proper restart is required to marry the SSL certificate to the ATM. Failure to perform this second restart may cause the SSL certificate to be lost if an improper shut down occurs.

<u>Processor</u>	<u>XScale Load File(s)</u>	<u>X2 Load File(s)</u>
Metavante	xu20tsck2.0.0.tlf xt20tcmv1.0.0.tlf	xu30tsck2.0.0.tfv xt30tcmv1.0.0.tfv
Digital Network Solutions	xu20tsck2.0.0.tlf xt20tcdn1.0.0.tlf	xu30tsck2.0.0.tfv xt30tcdn1.0.0.tfv
First Data	xt20cavs1.0.0.tlf	xt30cavs1.0.0.tfv
Switch Commerce Elan South Cardtronics / EzCorp	xt20caeq1.0.0.tlf	None
Cash Depot	xt20cagd1.0.0.tlf	xt30cagd1.0.0.tfv
Atlanta Cash Solutions	xt20cagt1.0.0.tlf	xt30cagt1.0.0.tfv
ACFN	None	None
RBS World Pay	None	None
CDS	None	None

- Go to *Management > System Parameters > Shut Down Terminal* to shut down. Turn off power when prompted.

Go to the section for your ATM to continue the hardware installation, and last section to configure the ATM.

IMPORTANT NOTES:

Use of any antenna, other than that supplied by Triton, WILL void the RF certification and warranty.

The antenna must be positioned such that there is at least 8 inches (20cm) separation from any person.

Refer to the FCC Certification on the next page.

FCC CERTIFICATION

TCB

GRANT OF EQUIPMENT
AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

Nemko Canada Inc.
303 River Road
Ottawa, Ontario, K1V 1H2
Canada

Date of Grant: 03/10/2011

Application Dated: 03/09/2011

Telit Communications S.p.A.
Viale Stazione di Prosecco 5/b
Trieste, 34010
Italy

Attention: Brian Tucker , Global VP, Quality

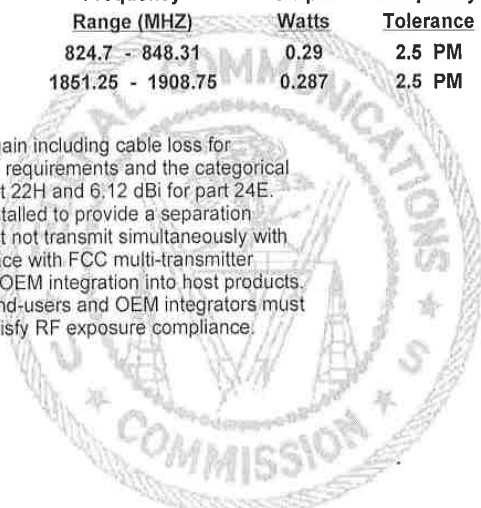
NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: RI7CC864-DUAL
Name of Grantee: Telit Communications S.p.A.
Equipment Class: PCS Licensed Transmitter
Notes: DUAL BAND CDMA/GPS module
Modular Type: Single Modular

Grant Notes	FCC Rule Parts	Frequency	Output	Frequency	Emission
		Range (MHZ)	Watts	Tolerance	Designator
	22H	824.7 - 848.31	0.29	2.5 PM	1M25F9W
	24E	1851.25 - 1908.75	0.287	2.5 PM	1M25F9W

Power listed is conducted. The maximum antenna gain including cable loss for compliance with radiated power limits, RF exposure requirements and the categorical exclusion requirements of 2.1091 is 5.12 dBi for part 22H and 6.12 dBi for part 24E. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not transmit simultaneously with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. This device is allowed only for OEM integration into host products. Consumer or end-user installation is not allowed. End-users and OEM integrators must be provided with specific information required to satisfy RF exposure compliance.



SECTION 1 TRAVERSE

NOTE:

After the software files are loaded, proceed with the modem installation.

1. Power down the ATM (*Management Functions > System Parameters > Shut Down*) Open the upper cabinet.
2. Install the TDL Gateway inside the cabinet. The USB Communications cable and double side tape will be used. Power is provide through the USB cable.

3. **WM:**

The WM is mounted with double sided tape between the printer and power supply.



TDL GATEWAY MODEM

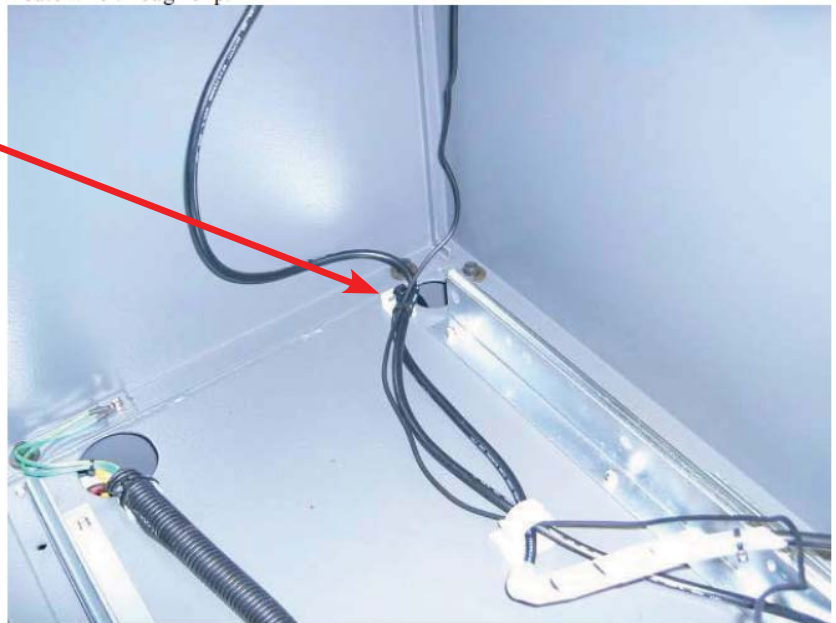
4. ANTENNA:

Determine the location to install the antenna. Remember, the antenna location will directly affect the signal strength, both transmit and receive, of the TDL Gateway. The recommended location is on top of the cabinet. When routing the antenna cable to the WM Gateway, ensure the cable does not interfere with the opening and closing of the upper cabinet, or the operation of the printer or printer paper roll. Refer to the Notes on page 5 of the introduction for antenna clearance.

Mount the antenna to the outside of the cabinet as shown. The antenna cable is routed through the hole in the top of the cabinet.



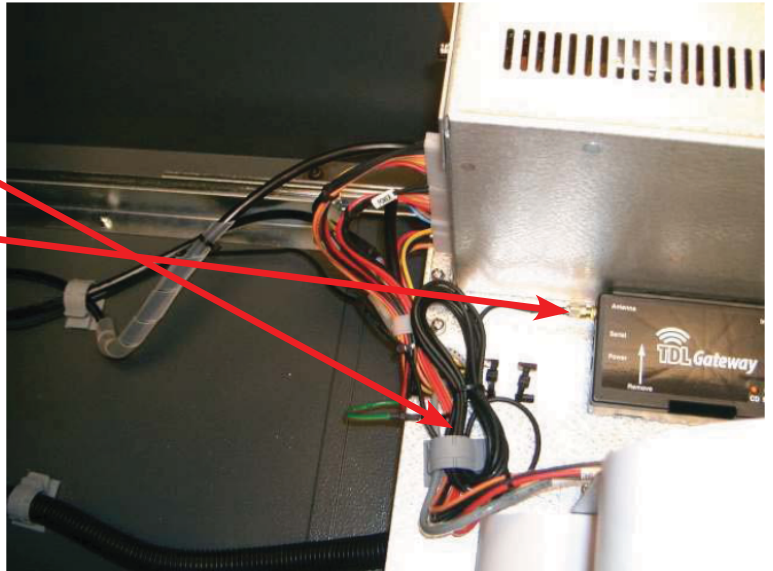
Zip tie the coax cable to the mount at the rear of the cabinet.



Zip tie the coax cable to the cable bundle on the tray.



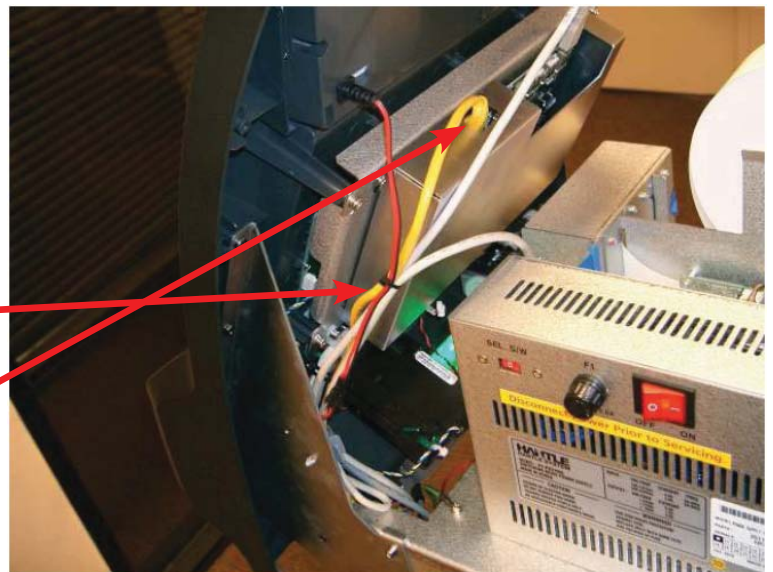
Bundle the excess antenna coax cable and place under the clip on the tray. Screw the antenna cable connector onto the TDL.



5. COMMUNICATIONS:

X2 - route the USB cable from the WM. to the Main Board and connect. Ensure the cable does not interfere with the opening and closing of the upper cabinet. Zip tie USB cable to the LED backlight power cable.

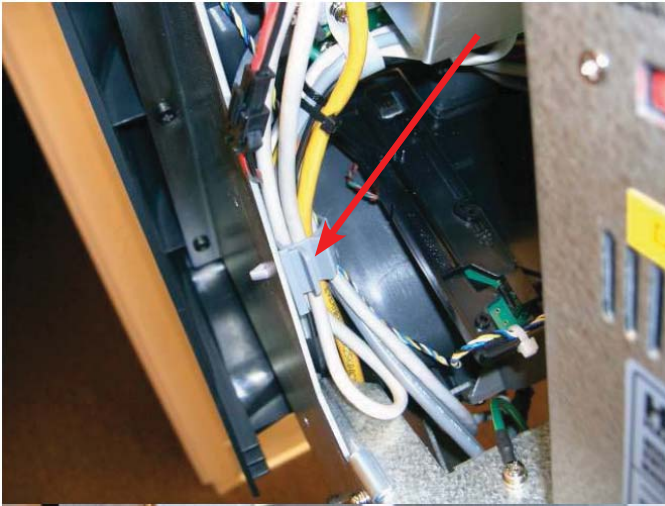
UNPLUG THE YELLOW ETHERNET CABLE FROM THE MAIN BOARD!



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Route the USB cable under the clamp.

Ensure there is enough slack to allow the front panel to open and tilt down.



6. POWER:

X2 - The TDL Gateway power is provide by the USB cable.

7. Start the ATM and close the upper cabinet. The POST will not find the new modem. Refer to the Software Configuration section at the end of this document.

8. If a weak signal is encountered, and does not improve, it may be necessary to obtain the booster amplifier. The amplifier installs between the TDL Gateway and the antenna, and requires AC power. Contact Triton Technical Support for further details.

SECTION 2 RL2300 RL1600 (X2)

NOTE:

After the software files are loaded, proceed with the modem installation.

1. Power down the ATM (*Management Functions > System Parameters > Shut Down*) Open the upper cabinet.
2. Install the TDL Gateway inside the cabinet. The USB Communications cable will be used. Power is provide through the USB cable.

3. **WM:**

The WM is mounted on the right side (RL1600) , or on the roof of the cabinet (RL2300), on the studs provided



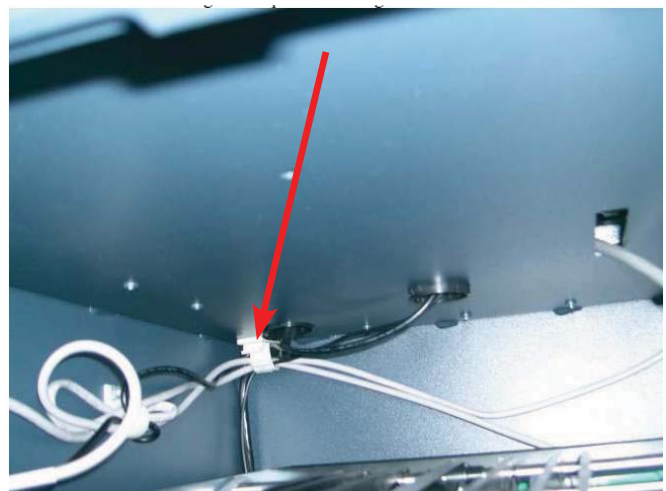
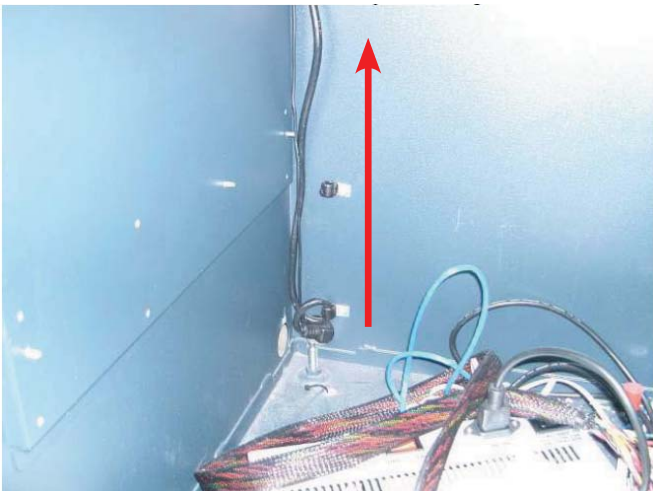
4. ANTENNA:

Determine the location to install the antenna. Remember, the antenna location will directly affect the signal strength, both transmit and receive, of the TDL Gateway. The recommended location is on top of the cabinet. When routing the antenna cable to the WM Gateway, ensure the cable does not interfere with the opening and closing of the upper cabinet, or the operation of the printer or printer paper roll. Refer to the Notes on page 5 of the introduction for antenna clearance.

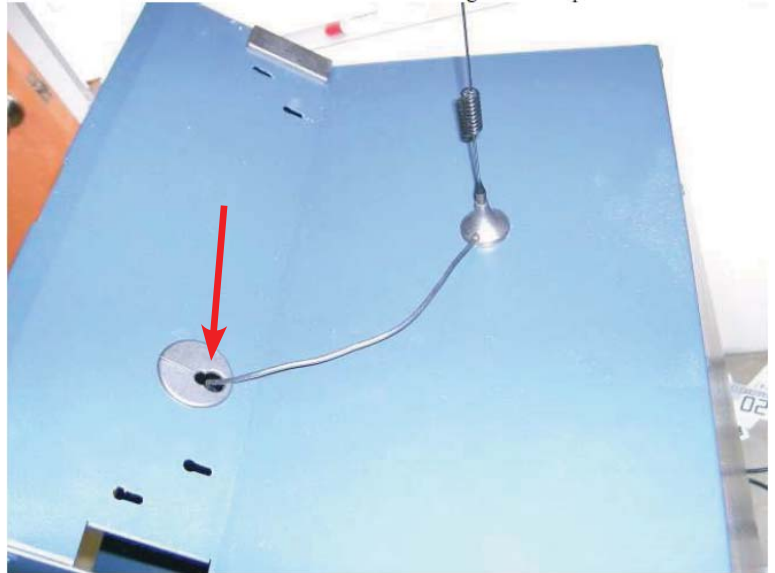
Mid Topper - Mount the antenna to the outside of the cabinet as shown. The antenna cable is routed through the hole in the bottom of the cabinet.



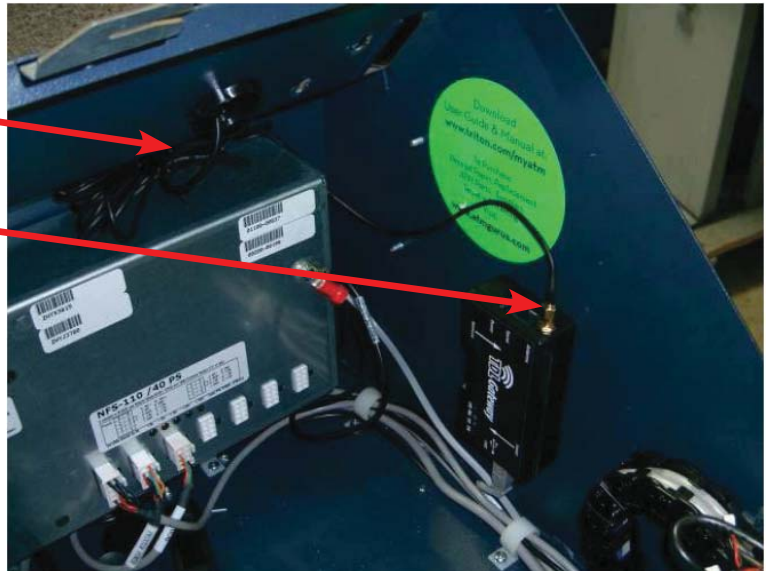
Route the cable up to the ceiling of the cabinet and through the clip.



High Topper or no Topper -
Route the antenna cable
through the hole in the top.



Bundle the excess antenna
coax cable and place on top
of the power supply..
Screw the antenna cable con-
nector onto the WM.



5. COMMUNICATIONS:

X2 - route the USB cable
from the WM. to the Main
Board and connect. Ensure
the cable does not interfere
with the opening and clos-
ing of the upper cabinet. If
there was a cable used for
the Telephone modem, it
can be used again.

6. **POWER:**

X2 - The TDL Gateway power is provide by the USB cable.

7. Start the ATM and close the upper cabinet. The POST will not find the new modem. Refer to the Software Configuration section at the end of this document.
8. If a weak signal is encountered, and does not improve, it may be necessary to obtain the booster amplifier. The amplifier installs between the TDL Gateway and the antenna, and requires AC power. Contact Triton Technical Support for further details.

SECTION 3 RL5300 (X2)

NOTE:

After the software files are loaded, proceed with the modem installation.

1. Power down the ATM (*Management Functions > System Parameters > Shut Down*) Open the upper cabinet.
2. Install the TDL Gateway inside the cabinet. The USB Communications cable will be used. Power is provide through the USB cable.

3. **WM:**
The WM is mounted on the control panel, on the studs provided.



TDL GATEWAY MODEM

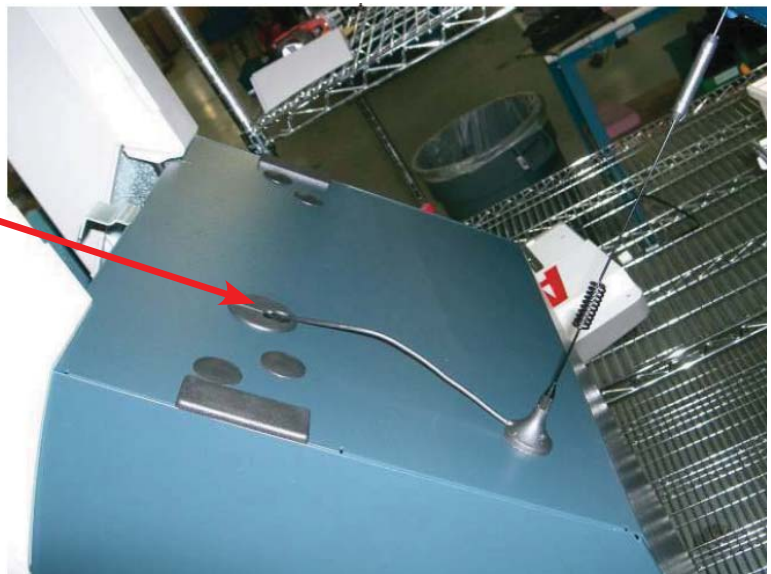
4. ANTENNA:

Determine the location to install the antenna. Remember, the antenna location will directly affect the signal strength, both transmit and receive, of the TDL Gateway. The recommended location is on top of the cabinet. When routing the antenna cable to the WM Gateway, ensure the cable does not interfere with the opening and closing of the upper cabinet, or the operation of the printer or printer paper roll. Refer to the Notes on page 5 of the introduction for antenna clearance.

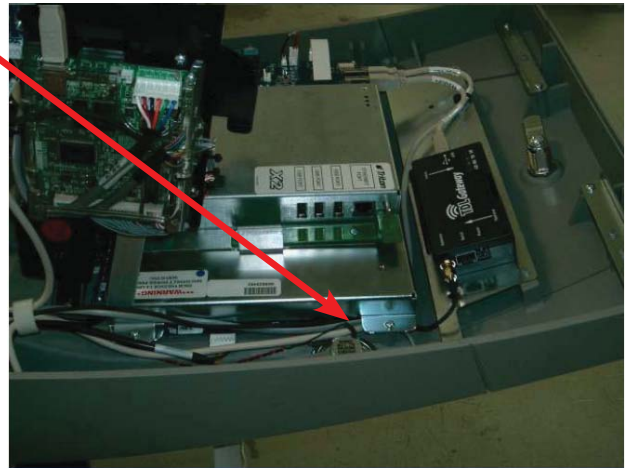
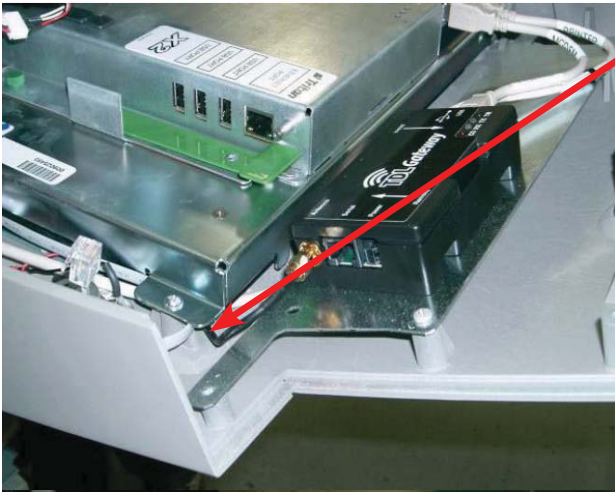
Mid Topper - Mount the antenna to the outside of the cabinet as shown. Remove the mid-topper sign and route the cable under the tab and down through the hole, Reinstall the mid-topper. Ensure the topper does not pinch or cause fraying of the cable.



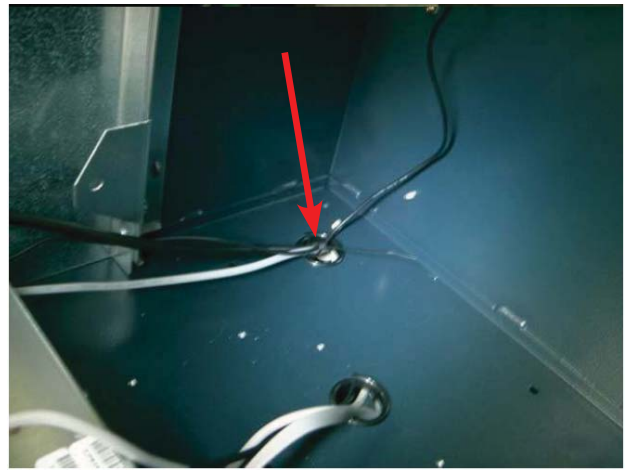
High Topper or no Topper -
Route the antenna cable
through the hole in the top.
Install grommet.



Connect the antenna cable to the WM. Route the cable under the LCD boss.



Continue routing through the two clips on the control panel and to the rear of the cabinet. Zip tie the coax cable to the wire bundle at the back left corner.



Bundle excess cable. Zip tie with captive mount. Insert into the hole in the corner. Ensure there is enough slack to allow the front panel to open.



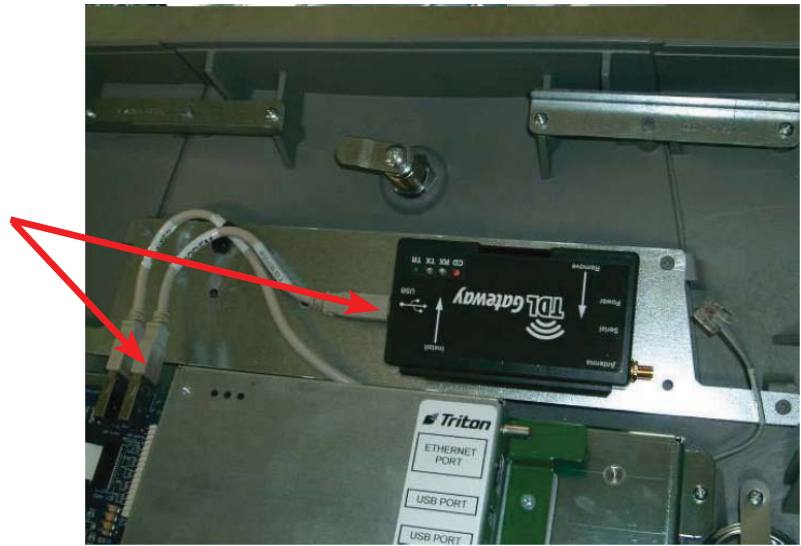
NOTE:

Ensure there is no excess cable in this area that could be pinched with the control panel on units with high top-per signs installed.



5. COMMUNICATIONS:

X2 - route the USB cable from the WM. to the Main Board and connect. Ensure the cable does not interfere with the opening and closing of the upper cabinet. If there was a cable used for the Telephone modem, it can be used again.



6. POWER:

X2 - The TDL Gateway power is provide by the USB cable.

7. Start the ATM and close the upper cabinet. The POST will not find the new modem. Refer to the Software Configuration section at the end of this document.
8. If a weak signal is encountered, and does not improve, it may be necessary to obtain the booster amplifier. The amplifier installs between the TDL Gateway and the antenna, and requires AC power. Contact Triton Technical Support for further details.

SECTION 4 FT5000 RT2000 (X2) RT2000 with 10.4” display only

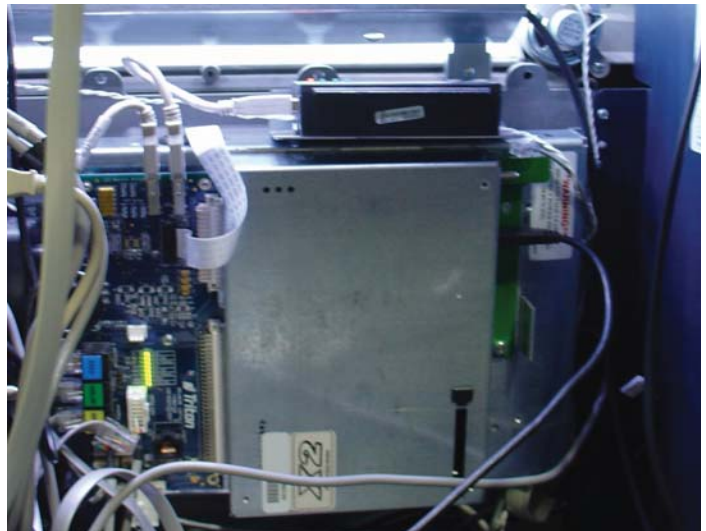
NOTE:

After the software files are loaded, proceed with the modem installation.

1. Power down the ATM (*Management Functions > System Parameters > Shut Down*) Open the upper cabinet.
2. Install the TDL Gateway inside the cabinet. The USB Communications cable will be used. Power is provide through the USB cable.

3. **WM:**

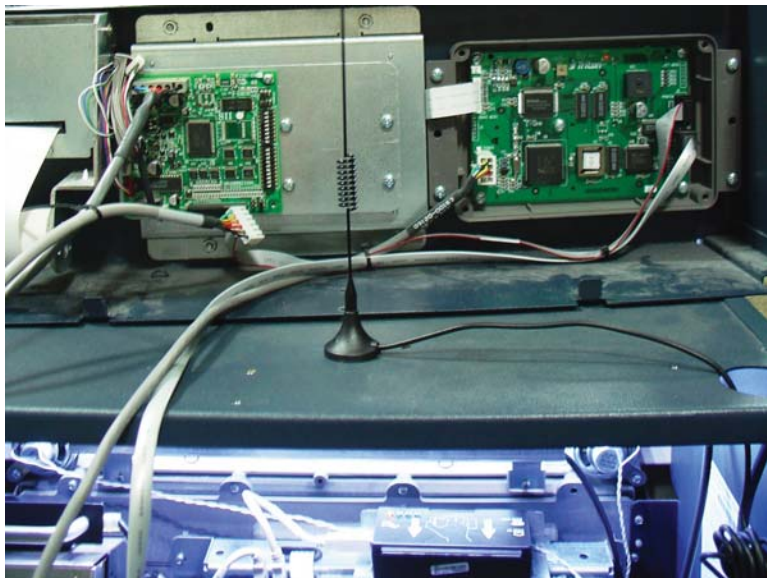
The WM is mounted on the top of the main board enclosure, in the telephone modem bracket. If the bracket is not present, the double sided tape may be used.



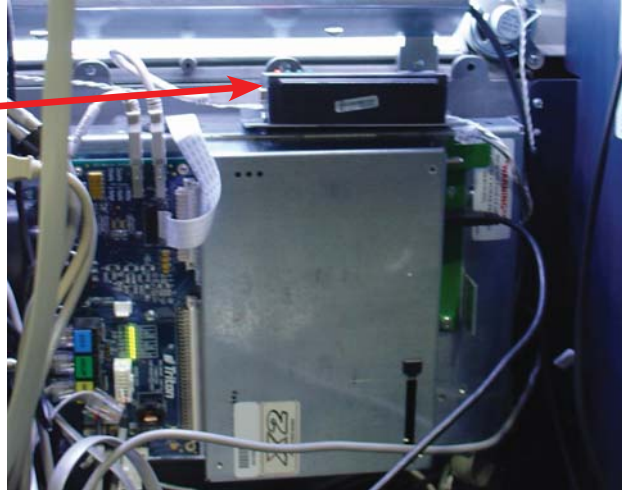
4. ANTENNA:

Determine the location to install the antenna. Remember, the antenna location will directly affect the signal strength, both transmit and receive, of the TDL Gateway. The recommended location is on top of the cabinet. When routing the antenna cable to the WM Gateway, ensure the cable does not interfere with the opening and closing of the cabinet door, or the operation of the printer or printer paper roll. Refer to the Notes on page 5 of the introduction for antenna clearance.

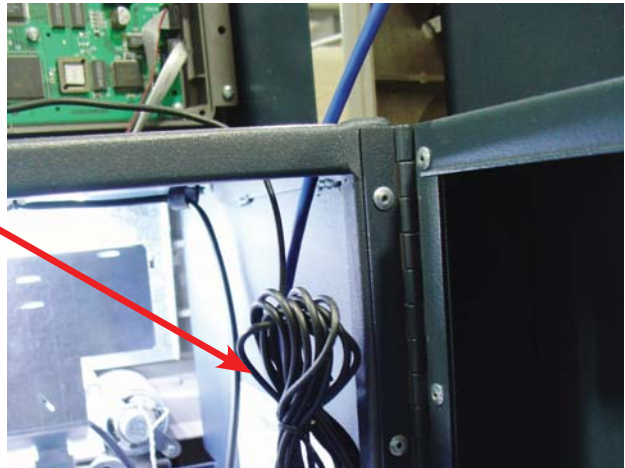
Mount the antenna to the top of the cabinet. Route the cable through the hole. The RT2000 may not have an access hole. Drill a 7/16" hole in the right corner of the cabinet, much like the FT5000 shown. Ensure you miss the mounting bracket for the Rear Service Panel. Be very careful of the metal shavings from the drilling process. Do not allow them to fall into any electrical components.



Connect the antenna cable to the WM.

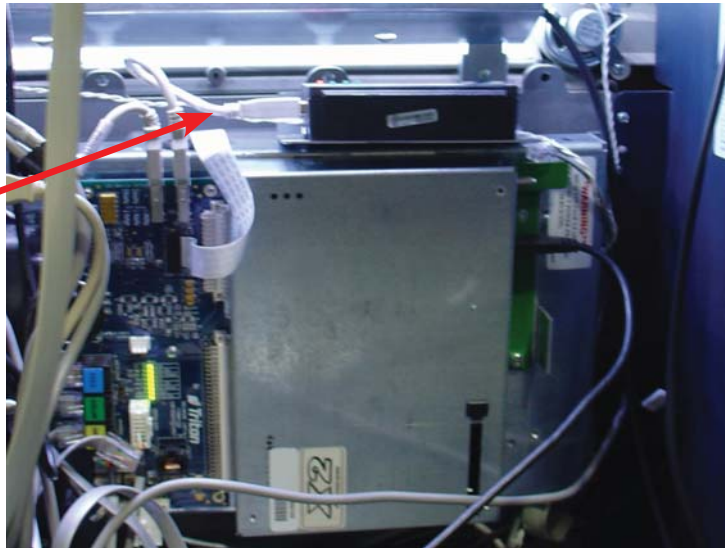


Bundle the excess cable and tie wrap.



5. COMMUNICATIONS:

X2 - route the USB cable from the WM. to the Docking Board and connect. If there was a cable used for the Telephone modem, it can be used again.



6. POWER:

X2 - The TDL Gateway power is provide by the USB cable.

7. Start the ATM. The POST will not find the new modem. Refer to the Software Configuration section at the end of this document.
8. If a weak signal is encountered, and does not improve, it may be necessary to obtain the booster amplifier. The amplifier installs between the TDL Gateway and the antenna, and requires AC power. Contact Triton Technical Support for further details.

SECTION 5 RL5100 (XScale)

NOTE:

After the software files are loaded, proceed with the modem installation.

1. Power down the ATM (*Management Functions > System Parameters > Shut Down*) Open the upper cabinet.
2. Install the TDL Gateway inside the cabinet. The Serial Communications cable, power cable, and double side tape will be used. Power is provide through the DC power cable.

3. **WM**

The WM is mounted with double sided tape to the back right corner.



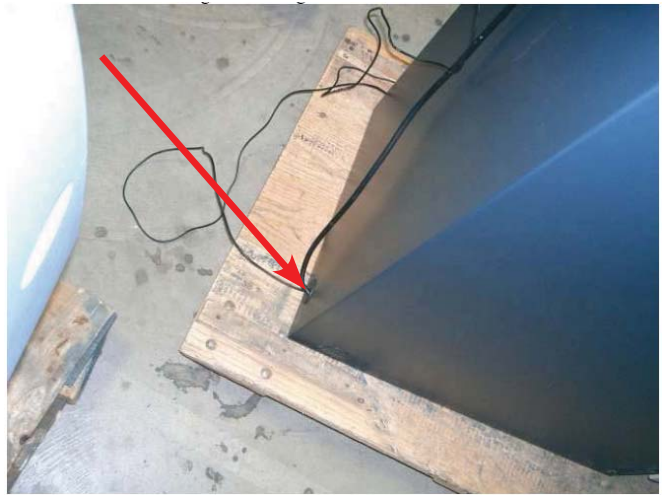
TDL GATEWAY MODEM

4. ANTENNA:

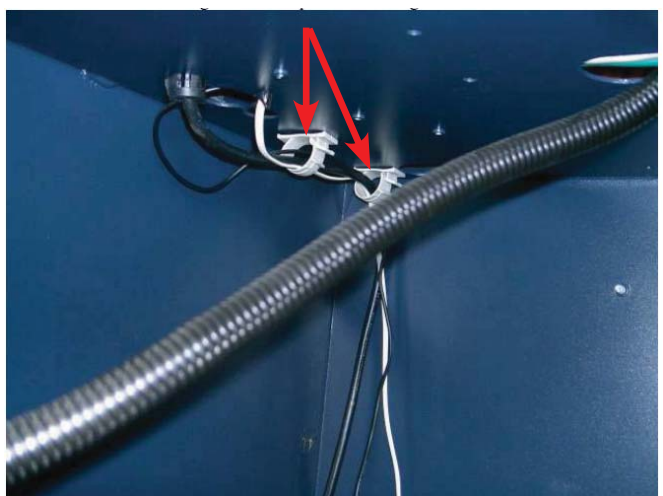
Determine the location to install the antenna. Remember, the antenna location will directly affect the signal strength, both transmit and receive, of the TDL Gateway. The recommended location is on top of the cabinet. When routing the antenna cable to the WM Gateway, ensure the cable does not interfere with the opening and closing of the upper cabinet, or the operation of the printer or printer paper roll. Refer to the Notes on page 5 of the introduction for antenna clearance.

Mid Topper - Mount the antenna to the outside of the cabinet as shown. The cable routes to the bottom of the cabinet. Route through the hole with grommet.

High topper no topper - refer to the instructions in Section two RL2300 RL1600.

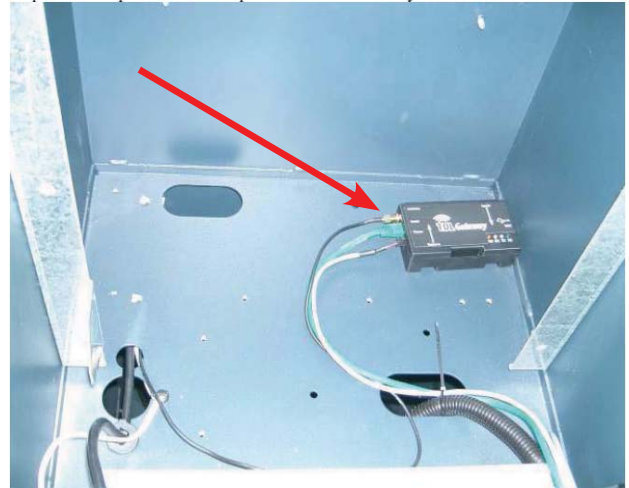


Route the cable up to the top. Route through the two clips on the ceiling.



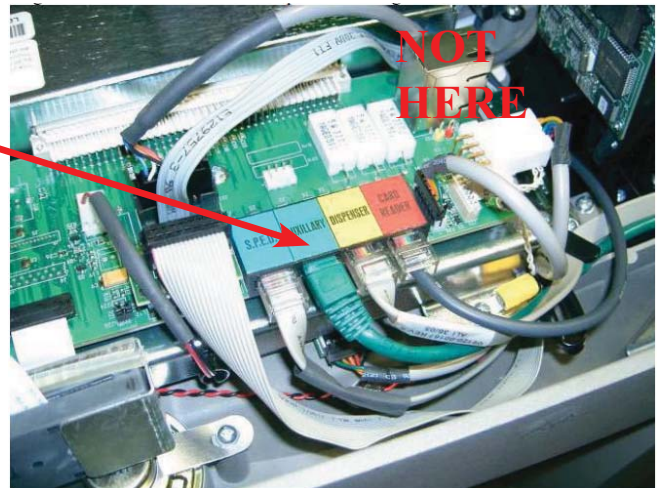
Route the cable up into the upper cabinet.

Connect the antenna cable to the WM.

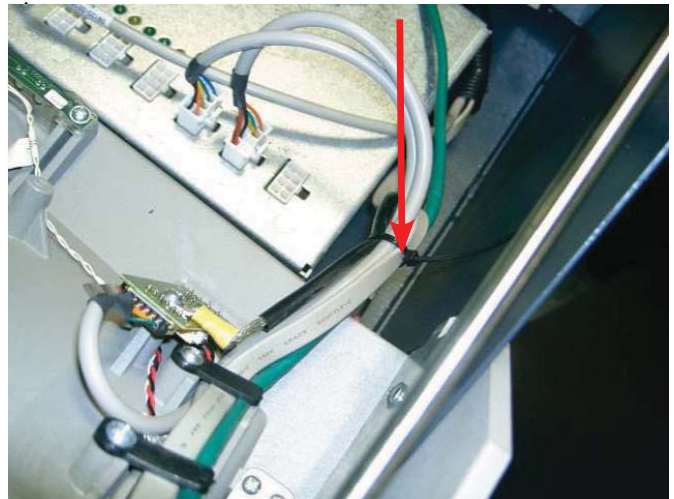
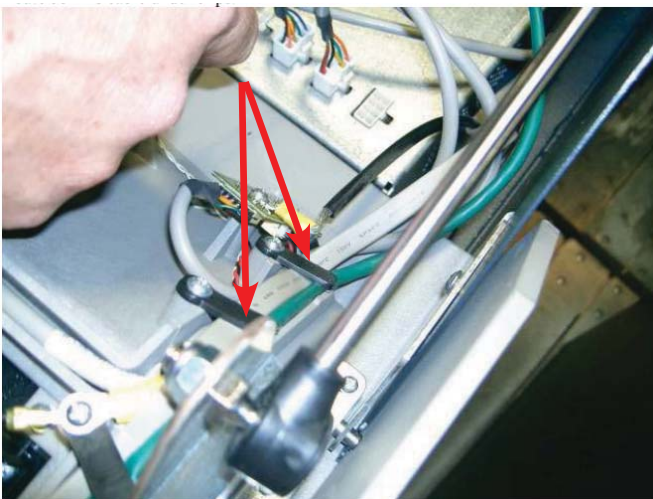


5. COMMUNICATIONS:

Connect the RS232 serial cable (Green) to the Auxiliary port on the docking board. This cable resembles an Ethernet cable, but is not. DO NOT be tempted to connect it to the Ethernet port on the docking board.

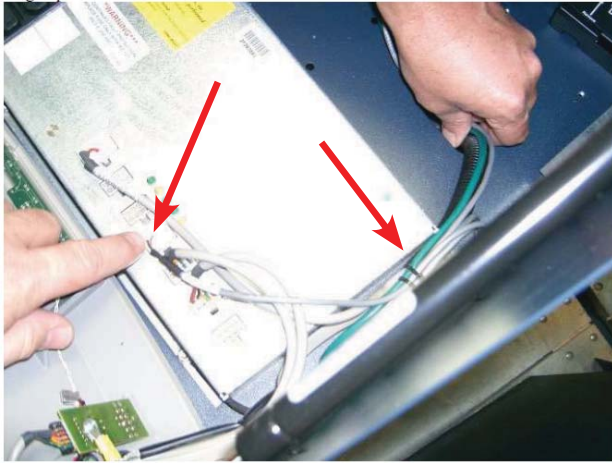


Route the comms cable under the clips. Zip tie to the cable bundle.



6. POWER:

Connect the power cable to an open connection on the power supply. Zip tie the comms and power cables to the wire bundle. Connect the comm and power cables to the WM.



Snip off excess from all zip ties. Ensure the WM is secured to the cabinet with the double sided tape.

7. Start the ATM and close the upper cabinet. The POST will not find the new modem. Refer to the Software Configuration section at the end of this document.
8. If a weak signal is encountered, and does not improve, it may be necessary to obtain the booster amplifier. The amplifier installs between the TDL Gateway and the antenna, and requires AC power. Contact Triton Technical Support for further details.

SECTION 6 CONFIGURATION

Go to *Management > Terminal Configuration > Communications*. Configure as follows:

- 8 - Communication Protocol: TCP/IP (Wireless)
- F4 - Enable SSL: Enabled
- Configure other communication settings according to host processor specifications for SSL TCP/IP. This includes 1 - the Host domain name and 2 - port number.
- Press ENTER to save changes

Go to *Management > Diagnostics > Modem Ethernet > Configure Ethernet Settings*.

- Enable DHCP: Enabled (check mark, may already be there).
- Press ENTER to save settings

Go to *Management > System Parameters > Restart Terminal* to apply settings.

Triton Connect (TC): If you are using Triton Connect, you must have an SSL certificate in your TC PC, a Domain name for the TC PC, and the TC software must be upgraded to TC5.5.6.

ATM TC configuration:

Go to *Management > Terminal Configuration > More Options > Triton Connect*.

Configure as follows:

- F4 (bottom left screen key): Select TCP/IP
- 1 - Host Address: This is the domain name of your TC computer
- 2 - Host IP Port: 9324 (This is different than normal TCP/IP which is 9323)
Ensure you designate this port in your TC application set up as well.
- 3 - Alarm IP Address: This will probably be the same as above.
- 4 - Alarm IP Port: 9324
- 5 - Max Retries: 1
- 6 - Redial Delay: 5
- 7 - Enable Triton Connect: Enabled
- Enable Scheduled Journal Calls: Disabled (optional)
- Call At Number of Journal Records: 0(optional)
- Call At Low Cash Threshold: 0(optional)
- (F3) Access Code: 123456 (This is an example, yours should be different.
Ensure the same code is entered into the TC data, EPROM Access Code, for this terminal.)
- Press ENTER to save changes

VERIFICATION:

- To verify that the configuration is complete and the modem can reach the network, perform the following steps:
 - Go to *Management > Diagnostics > TCP/IP Wireless*
 - Verify the “Wireless IP Address” field displays a valid TCP/IP address
 - If no address is displayed, check the Error Code displayed and contact tech support, 1.800.259.6672

ERROR CODES:

608 Phonebook entry is unavailable reinstall driver update file.

619 Port disconnected.

633 Modem disconnected, modem off or in use

666 Device not ready; device or modem is not functioning

679 No signal strength; antennae disconnected.

- To check the signal strength at the location:
 - Go to *Management > Diagnostics > TCP/IP Wireless*
 - Select “Disconnect” to disconnect from the network
 - Select “Signal Strength” to verify the signal. The minimum acceptable signal is 7 (seven), and that may be marginal. Moving the antenna may increase efficiency. Push “Signal Strength” again to see new level.
 - Select “Connect” to reconnect to the network. The IP address should reappear.

If a weak signal is encountered, and does not improve, it may be necessary to obtain the booster amplifier. The amplifier installs between the TDL Gateway and the antenna, and requires AC power. It increases both the Transmit and Receive signals. Contact Triton Technical Support for further details. 1.800.259.6672

- To test communications to the host/processor:
 - Go to *Management > Diagnostics > Modem/Ethernet > Test*
 - Press F8 key (bottom right screen key) to display virtual keyboard
 - Enter the host name (from *Terminal Configuration > Communications > Host Address*)
 - Press ENTER to test connection to host

Return the ATM to service and perform a balance inquiry or withdrawal to verify operation.

The release notes for the software service packs listed in the front of this instruction are attached. Please read them carefully.

Triton Systems of Delaware, LLC



X1/X2 TDL Gateway Software Release Notes

Affected products
RL1600, RL2000, RL5000, FT5000,
RT2000, Traverse

September 30, 2011

Version 1.0

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Introduction

This document describes software configuration for the TDL Gateway modem which is wireless configuration for Triton terminals.

Platforms Affected

This release is for the following families:

- RL1600, RL2000, RL5000, FT5000, RT2000 (10.4" Display) with X2 Controller
- RL5000 with X1 (XScale) Controller
- Traverse

Hardware Support

- Triton TDL Gateway Modem and antennae is required.

Software Requirements

The following load files are included with this release:

- xu20xcmn2.4.0sp4a.tlf - X1 (XScale) US Update (must install on US 2.4.0)
- xu30xcmn2.4.0sp4a.tfv - X2 US Update (must install on US 2.4.0)
- xu30xcmn3.0.0sp3.tfv – Traverse US Update (must install on US 3.0.0)

IMPORTANT: For X2 and Traverse, the software above must be installed BEFORE connecting the modem to the ATM!

Please check with your host processor if any additional SSL certificates are required to be installed to properly connect using SSL.

External Dependencies

Triton Connect 5.5 SP1 is required to connect to ATMs with the TDL Gateway modem.

Description of Changes

TDL Gateway Modem

This software adds support for the TDL Gateway modem. The following section details the configuration needed to use the modem.

On the following screen, Main Menu – Terminal Configuration – Communication, “TCP/IP (Wireless)” should be selected for Communication Protocol.

The screenshot displays the 'Main Menu/Terminal Configuration/Communication' screen. The 'Communication Protocol' dropdown menu is highlighted with a red circle and set to 'TCP/IP (Wireless)'. Other configuration options include Host Address (triton.com), Host IP Port (9971), and various checkboxes for connection and SSL settings.

RLTCP	
8/11/2011	08:54 AM
Prog	2.4.2
Screen File:	XCSF0018

Exit Management Functions

Current Terminal	0
Error:	No Errors

On the following screen, Main Menu – Terminal Configuration – Communication, “Enable SSL” should be selected.

Main Menu/ Terminal Configuration/ Communication	
1	Host Address <input type="text" value="triton.com"/> <input type="button" value="Enter"/>
2	Host IP Port <input type="text" value="9971"/> <input type="button" value="Cancel"/>
3	<input type="checkbox"/> Permanent TCP/IP Connection
4	<input type="checkbox"/> Enable Communication Header <input type="text" value="5"/>
6	<input type="checkbox"/> Use 12-Digit Sequence Number <input type="text" value="F4"/> <input checked="" type="checkbox"/> Enable SSL
7	Amount Type
8	Communication Protocol <input type="text" value="TCP/IP (Wireless)"/>
9	Communication Message <input type="text" value="Triton Standard TCP/IP"/>
0	Host Response Timeout <input type="text" value="120"/>
Reversal Communications	
F1	<input checked="" type="checkbox"/> Enable Persistent Reversals
F2	Reversal Attempts <input type="text" value="2"/>
F3	<input checked="" type="checkbox"/> Enable Reversals For Protocol Errors

RLTCP
8/11/2011 08:54 AM
Prog 2.4.2
Screen File: XCSF0018

Exit Management Functions

Current Terminal 0
Error:
No Errors

When TCP/IP (Wireless) is selected for the Communication Protocol, a menu item—“TCP/IP (Wireless)”—shows up on Main Menu – Terminal Diagnostics.

Main Menu/ Terminal Diagnostics

Select an option by pressing the appropriate number on the keypad. Press CANCEL to return to previous menu.

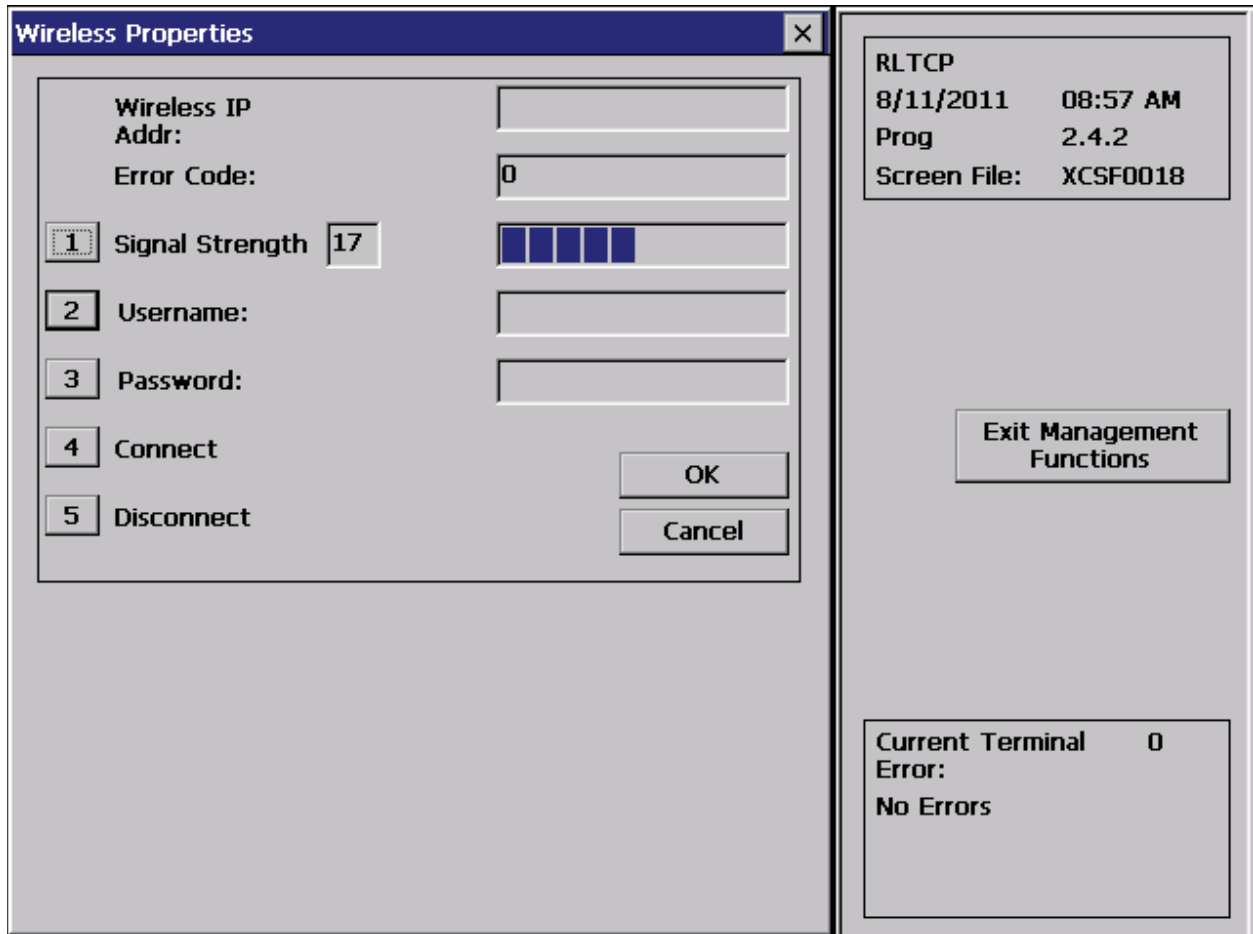
1 Terminal Status	2 Transaction Totals	3 System Diagnostics
4 Dispenser	5 Card Reader	6 Printer
7 Modem / Ethernet	8 Keypad	9 General I/O Diagnostics
0 TCP/IP (Wireless)		

RLTCP
8/11/2011 08:58 AM
Prog 2.4.2
Screen File: XCSF0018

Exit Management Functions

Current Terminal 0
Error: No Errors

On the following screen, Main Menu – Terminal Diagnostics – TCP/IP Wireless, there is an option to test the Signal Strength.



Signal strength values are:

- 0: (-113) dBm or less
- 1: (-111) dBm
- 2...30: (-109) dBm..(-53) dBm / 2 dBm per step
- 31: (-51) dBm or greater
- 99: not known or not detectable

A signal strength of 7 or greater is recommended.

On the following screen, Main Menu – Terminal Diagnostics – TCP/IP Wireless, there is an option to Connect.

The image shows a software interface with two main panels. The left panel is titled "Wireless Properties" and contains several input fields and buttons. The right panel displays system information and a status box.

Wireless Properties Dialog:

- Wireless IP Addr: [Empty text box]
- Error Code: 0 [Text box]
- 1 Signal Strength: [Empty text box]
- 2 Username: [Empty text box]
- 3 Password: [Empty text box]
- 4 **Connect**: [Button, circled in red]
- 5 Disconnect: [Button]
- OK: [Button]
- Cancel: [Button]

System Information Panel:

- RLTCP
- 8/11/2011 09:02 AM
- Prog 2.4.2
- Screen File: XCSF0018

Terminal Status Panel:

- Exit Management Functions: [Button]
- Current Terminal 0
- Error: No Errors

After selecting “Connect” on Main Menu – Terminal Diagnostics – TCP/IP (Wireless), the following screen appears which displays the Wireless IP Address received from the carrier upon a successful connection.

The screenshot shows a 'Wireless Properties' dialog box with the following fields and controls:

- Wireless IP Addr:** 24.221.37.57 (circled in red)
- Error Code:** 0
- 1 Signal Strength:**
- 2 Username:**
- 3 Password:**
- 4 Connect:**
- 5 Disconnect:**

On the right side of the dialog, there is a panel with the following information:

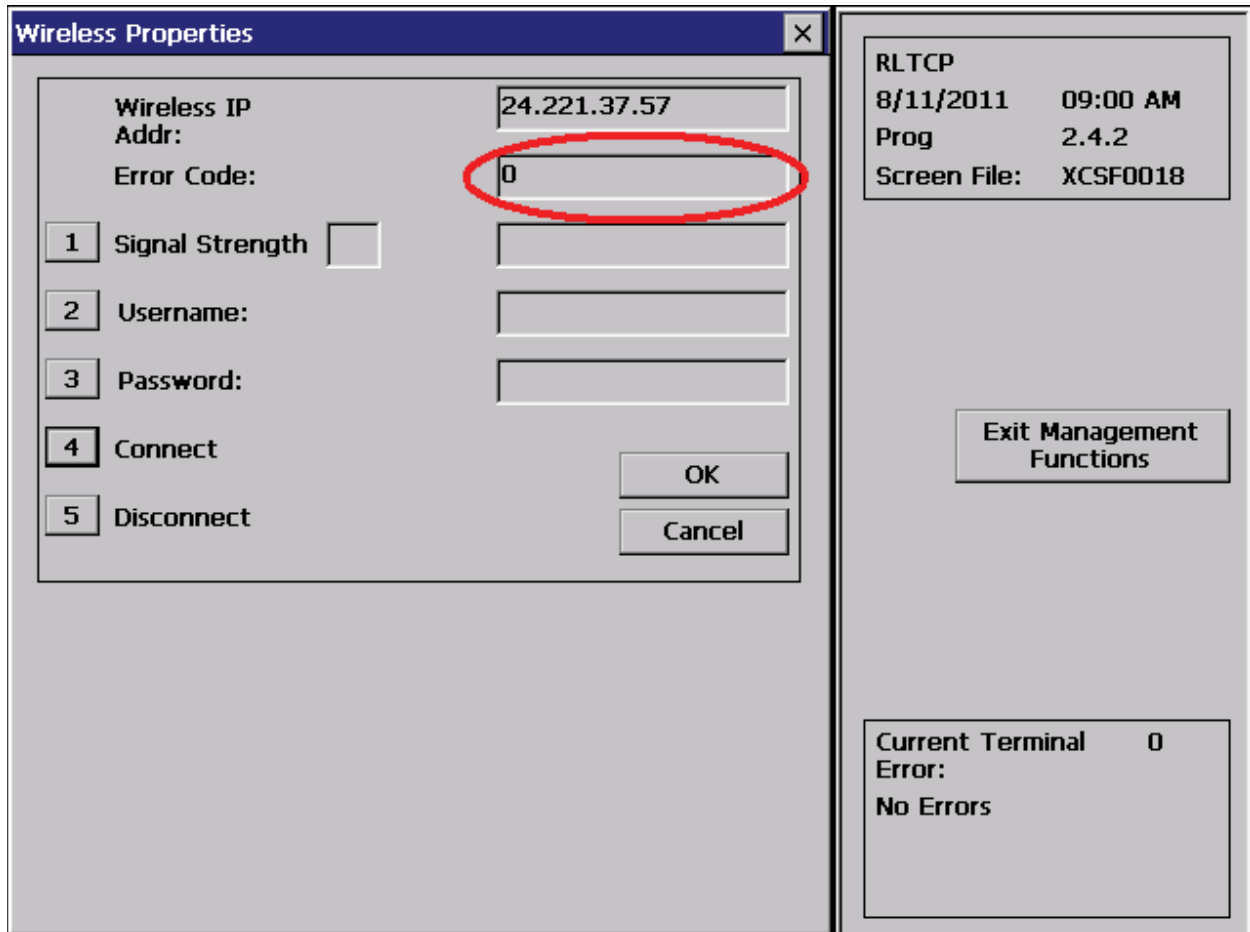
- RLTCP**
- 8/11/2011 09:00 AM**
- Prog 2.4.2**
- Screen File: XCSF0018**

Below this panel is a button labeled **Exit Management Functions**.

At the bottom right, there is a status box:

- Current Terminal 0**
- Error: No Errors**

Upon a successful connection, the Error Code field will be 0.



If the connection the wireless provider is unsuccessful, some common error codes are:

- 608 Phonebook entry is unavailable reinstall driver update file.
- 619 Port disconnected.
- 633 Modem disconnected, modem off or in use
- 666 Device not ready; device or modem is not functioning
- 679 No signal strength; antennae disconnected.

In order to debug a SSL connection issue, go to Main Menu – Terminal Diagnostics – Modem / Ethernet.

Main Menu/Terminal Diagnostics		
Select an option by pressing the appropriate number on the keypad. Press CANCEL to return to previous menu.		
1 Terminal Status	2 Transaction Totals	3 System Diagnostics
4 Dispenser	5 Card Reader	6 Printer
7 Modem / Ethernet	8 Keypad	9 General I/O Diagnostics
0 TCP/IP (Wireless)		

RLTCP	
8/11/2011	09:04 AM
Prog	2.4.2
Screen File:	XCSF0018

Exit Management Functions

Current Terminal Error:	0
No Errors	

Select "Test" on Main Menu – Terminal Diagnostics – Modem / Ethernet. This will allow you to connect and disconnect and will provide more detailed information.

Main Menu/Terminal Diagnostics/Modem / Ethernet

Select an option by pressing the appropriate number on the keypad. Press CANCEL to return to previous menu.

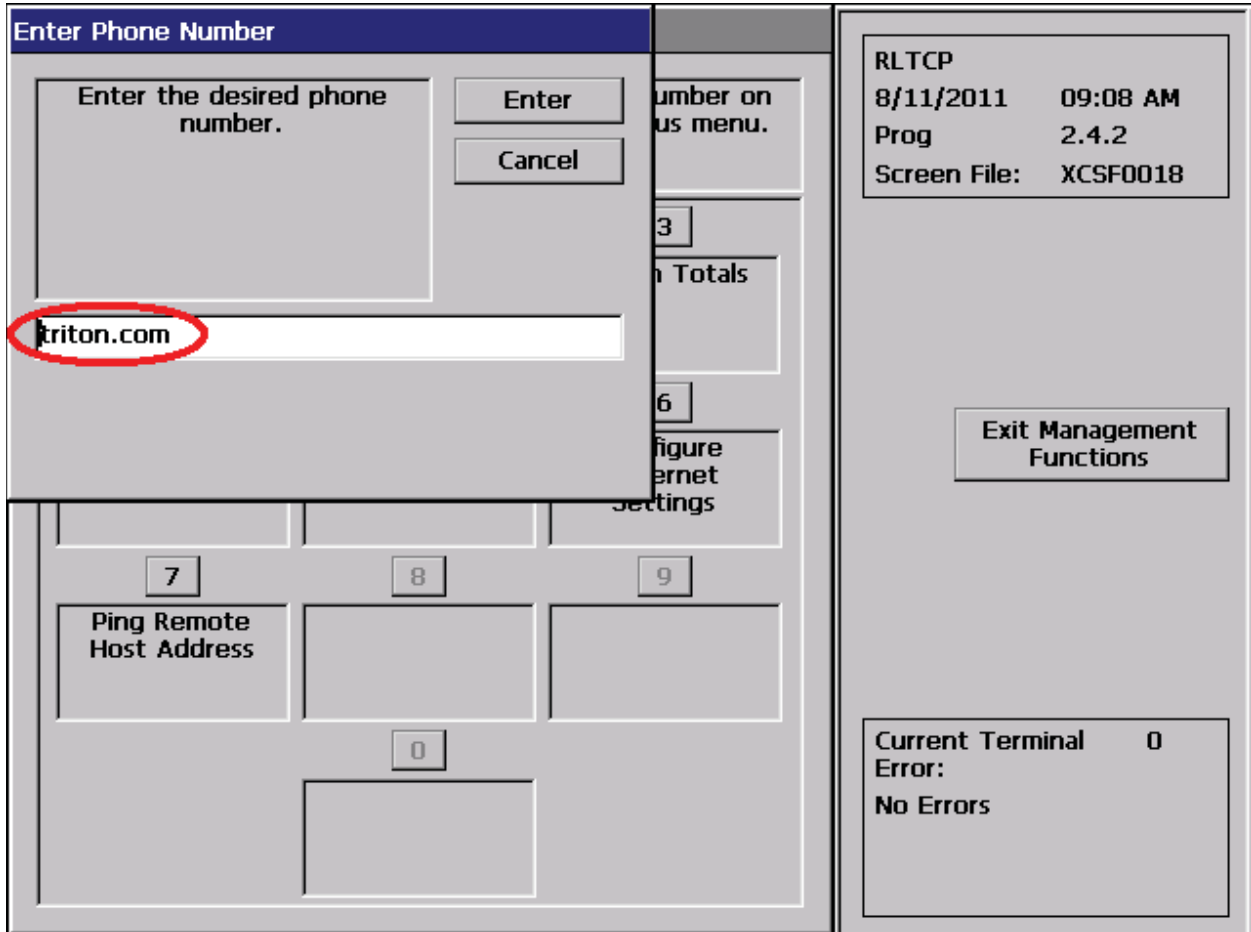
1 Device Status	2 Test	3 Modem Totals
4 Configure Modem	5 Triton Connect Settings	6 Configure Ethernet Settings
7 Ping Remote Host Address	8	9
0		

RLTCP
8/11/2011 09:06 AM
Prog 2.4.2
Screen File: XCSF0018

Exit Management Functions

Current Terminal 0
Error:
No Errors

After selecting “Test” on Main Menu – Terminal Diagnostics – Modem / Ethernet, the following screen appears which prompts for a desired phone number (domain name). Note that this operation will use the port number configured in *Terminal Configuration > Communication > Host IP Port*.



The following screen shows the results of a connection attempt. This is an example of a successful connect..

The screenshot displays a terminal window titled "Reset/Test Modem". The interface is divided into several sections:

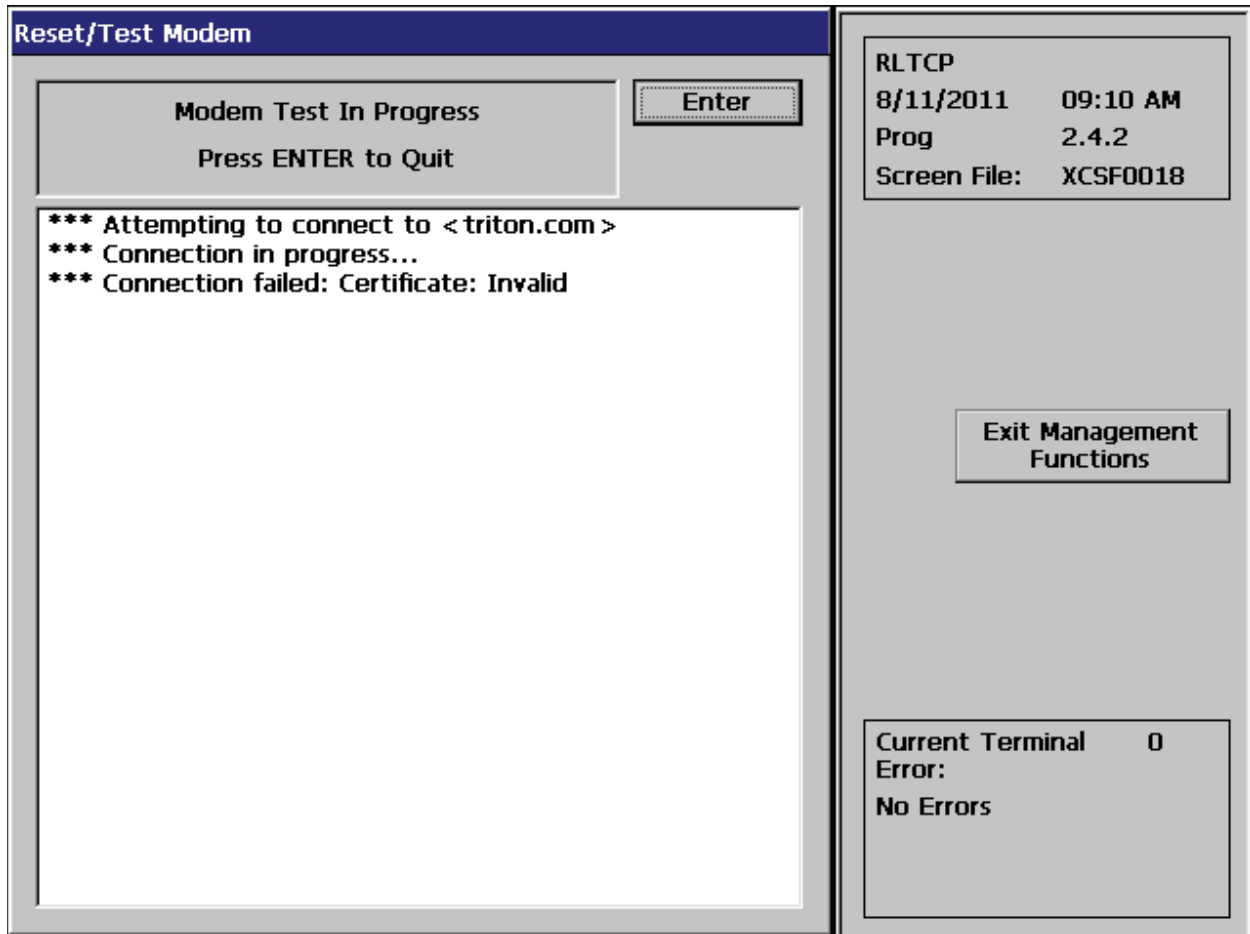
- Header:** "Reset/Test Modem" in a blue bar.
- Modem Test In Progress:** A box containing the text "Modem Test In Progress" and "Press ENTER to Quit". To the right of this box is a button labeled "Enter".
- Log Output:** A large white box containing the following text:

```
*** Attempting to connect to <triton.com >  
*** Connection in progress...  
*** Connection complete, attempting to disconnect...  
*** Disconnect complete.
```
- System Information:** A box in the top right corner containing:

```
RLTCP  
8/11/2011 09:23 AM  
Prog 2.4.2  
Screen File: XCSF0018
```
- Exit Management Functions:** A button labeled "Exit Management Functions" located in the middle right area.
- Current Terminal Error:** A box in the bottom right corner containing:

```
Current Terminal 0  
Error:  
No Errors
```

The following screen shows the results of a connection attempt. This is an example of a failure—specifically the error is Certificate invalid.



Receiving the message “Connection failed: Certificate: Invalid” may indicate one of the following:

Out of date – Check the date on the terminal, OR

The certificate being used by the host has not been signed by a valid certificate authority.

Revision History

Date	Version	Description of Change
September 29, 2011	1.0	Initial version

Software Release Notes

Triton Connect 5.5 SP1

Affected products
Triton Connect

September 30, 2011

Version 1.0

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1 Introduction

This document describes changes made to the Triton Connect 5.5 SP1 software release. This document describes changes from the 5.5 release.

2 Platforms Affected

2.1 Hardware Requirements

A new comloc will be required if upgrading from 4.x. The part number for the comloc is 05000-0005.

2.2 Software Releases

Build Version: 5.5.6

Build Date: September 28, 2011

Operating Systems: Windows 2000 and Windows XP

Installation instructions:

- Download "Triton Connect 5.5 SP1.zip" from Triton website.
- Extract to local hard disk.
- Browse to "Triton Connect 5.5 SP1/Install Files".
- Execute "Launch.exe" by double-clicking.
- Select desired component to install.

2.3 External Dependencies

None

3 Description of New/Modified Features

3.1 TDL Gateway Modem Support

This release of Triton Connect adds support for dynamic IP addresses for the TDL Gateway cellular modem. If the IP address of an ATM using a TDL Gateway modem changes, Triton Connect will be notified and the IP address it stores for the terminal will automatically be updated in the Triton Connect database.

4 Bug Fixes

4.1 Cannot reschedule call that does not contain MPTU data

If a call failed and had been written to the call error list, it could not be rescheduled unless the call contained MPTU provider data. This issue has been corrected.

4.2 Sending multiple alerts for same error status

With email alerts configured at Triton Connect, if the same error status were received multiple times with no change in status in between then the email alert would be sent multiple times as well. This has been corrected. If Triton Connect receives an error status from the terminal that causes an email alert to be generated, another email alert will not be sent for that terminal until the error status has changed.

4.3 Comloc issue causes Terminal Manager to crash

A comloc that contains corrupted data could cause the Terminal Manager to crash immediately after entering the password and pressing enter. This has been corrected by ignoring unused portions of data on the comloc.

Revision History

Date	Version	Description of Change
September 29, 2011	1.0	Initial