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Intermec



Addendum

**Trakker Antares[®]
Firmware
Version 8.02**

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This product includes cryptographic software written by Eric Young (EAY@cryptsoft.com).

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How to Use This Addendum

Read this addendum before you start using your Trakker Antares[®] terminal. This addendum contains the latest information for Trakker Antares firmware version 8.02.

The firmware on Trakker Antares terminals has been updated to provide added features and improve efficiency and ease of use. These changes are not reflected in the user's manual, but they are described here in detail.

The information in this addendum applies to the Trakker Antares 241X, 242X, 243X, 2455, 2475, and 248X terminals. For more information about using the terminals, refer to your user's manual or system manual.

Trakker Antares Manuals

Manual	Part Number
<i>Trakker Antares 241X Handheld Terminal User's Manual</i>	069538
<i>Trakker Antares 242X Handheld Terminal User's Manual</i>	064024
<i>Trakker Antares 243X Handheld Terminal User's Manual</i>	071791
<i>Trakker Antares 2455 Vehicle-Mount Terminal User's Manual</i>	067358
<i>Trakker Antares 2475 Vehicle-Mount Terminal User's Manual</i>	072383
<i>Trakker Antares 248X Stationary Terminal User's Manual</i>	066960
<i>Trakker Antares 2400 Family System Manual</i>	071389



Note: This addendum does not apply to the Trakker Antares 246X Stationary terminal. The 246X only supports firmware version 6.2X and earlier. For help using the 246X terminal, see the *Trakker Antares 246X Stationary Terminal User's Manual* (P/N 068575).

If there are any conflicts between the information in the Trakker Antares user's manual or system manual and this addendum, use the information in this addendum.

If you have an earlier version of firmware, you can download version 8.02 at no charge from the Intermec web site at www.intermec.com. If you are using firmware version 8.01 or earlier and you are not going to upgrade to firmware version 8.02, use your Trakker Antares user's manual and system manual and disregard this addendum.

File System Enhancements

Previously, on Trakker Antares terminals you could use the optional 2MB extended flash memory:

- for 802.1x TTLS security.
- to store double-byte fonts.
- as a storage drive (drive D) for files.

With firmware version 8.02, these options are no longer mutually exclusive. You can now configure the 2MB memory to use all three options at the same time.

Flash Memory Configuration Command

Terminals: All Trakker Antares terminals with the 4MB flash memory option.

Description: Configures the use of the optional 2MB extended flash memory. If you have a terminal with the 4MB flash memory option, you can use the space for 802.1x TTLS security, to store double-byte fonts, and as a storage drive (drive D). The amount of space available for drive D depends on whether you have 802.1x TTLS security or double-byte fonts loaded on your terminal. Use this table to determine how much space is available for a drive D.

Drive D Size

802.1x TTLS Security	Double-Byte Font	Maximum Size for Drive D
No	No	1893K
Yes	No	1513.5K
Yes or No	5250 Japanese	1007.5K
Yes or No	5250 Simplified Chinese	1007.5K
Yes or No	5250 Big 5 Chinese	691K
Yes or No	VT Korean	248.5K
Yes or No	5250 Korean	185K
Yes or No	VT Simplified Chinese	Not available
Yes or No	VT Big 5 Chinese	Not available
Yes or No	VT Japanese	Not available



Note: If you are using the VT Simplified Chinese, VT Big 5 Chinese, or VT Japanese fonts, there is not enough flash memory to configure a drive D.

After you configure the flash memory, you need to save the configuration in flash memory and boot the terminal for the change to take effect.

For more information about configuring 802.1x TTLS security, see “Configuring 802.1x TTLS Security” in the networking chapter of your user’s manual. For more information about double-byte fonts, see “Loading Double-Byte Fonts” in the system manual.

Syntax: *FFdata*

Acceptable values for *data* are:

- 0 Configure for no drive D
- 32 Configure flash memory for a drive D

Default: 32 (Configure flash memory for a drive D)

Menu System: Not supported

Bar Codes: To set Flash Memory Configuration:

Scan one of these bar codes to configure flash memory:

Configure Flash Memory
for no Drive D



\$+FF0

Configure Flash Memory
for a Drive D



\$+FF32

To save the changes in flash memory, scan this bar code:

Save Configuration in Flash Memory



.+1

Scan this bar code to boot the terminal and save your configuration:

Reset Firmware



-.



Note: When you boot or reset the terminal, any files in flash memory on drive D are erased.

Double-Byte Font Support

With firmware version 8.02, you can use 802.1x TTLS security and double-byte fonts at the same time.

To use double-byte fonts with 802.1x TTLS security, you need to order one of the following compatible double-byte fonts. For help ordering fonts, contact your local Intermec representative.

Double-Byte Fonts Compatible With 802.1x TTLS Security

Language	File Name
Simplified Chinese, VT	24DBCTSS.FON
Simplified Chinese, 5250	24DBCLSS.FON
Big 5 Chinese, VT	24DBTTSS.FON
Big 5 Chinese, 5250	24DBTLSS.FON
Japanese EUC (unix), VT	24DBJTSS.FON
Japanese, 5250	24DBJLSS.FON
Korean, VT	24DBKTSS.FON
Korean, 5250	24DBKLSS.FON



Note: If you are using the VT Simplified Chinese, VT Big 5 Chinese, or VT Japanese fonts, there is not enough flash memory to configure a drive D.

For more information about loading double-byte fonts on your Trakker Antares terminal, see “Loading Double-Byte Fonts” in the system manual. If you do not need 802.1x TTLS security, you can use either the original double-byte font files or the new files listed above.

Font Test Diagnostic Update

The font test diagnostic identifies which double-byte font, if any, you have loaded on your terminal. Firmware version 8.02 provides support for double-byte fonts that are compatible with 802.1x TTLS security. These fonts have different font file names than previously released double-byte fonts.

Use this table to match the font number with the double-byte font that is loaded on your terminal.

Double-Byte Font and Font Number

Font Number	Double-Byte Font	Current Font File Name	802.1x TTLS Security Font File Name
1	Simplified Chinese, VT	24DBCST.FON	24DBCTSS.FON
2	Japanese, 5250	24BCSJL.FON	24DBJLSS.FON
4	Korean, VT	24BCSKT.FON	24DBKTSS.FON
5	Korean, 5250	24BCSKL.FON	24DBKLSS.FON
8	Big 5 Chinese, VT	24BCSTT.FON	24DBTTSS.FON
9	Japanese EUC (unix), VT	24BCSJT.FON	24DBJTSS.FON
11	Big 5 Chinese, 5250	24BCSTL.FON	24DBTLSS.FON
13	Simplified Chinese, 5250	24BCSCL.FON	24DBCLSS.FON

Wavelink Avalanche Update

The Wavelink Avalanche configuration package has been renamed. The name has been changed from 24xxRCD.AVA to 24xxCFG.AVA.

802.1x LEAP Security Change

802.1x LEAP security now requires Network EAP instead of Open as an authentication type.

To enable 802.1x LEAP security on the terminal

1 Make sure that:

- your authentication server is properly configured. For help, see the documentation for your authentication server.
- your Cisco access point is properly configured for LEAP security. For help, see the documentation for your Cisco access point.
- your terminal is configured with the primary network, advanced network, and radio parameters.

2 Configure your Cisco access point to communicate with your Trakker Antares terminal using LEAP security.

- a Access the AP Radio Data Encryption screen. For help, see the documentation for your Cisco access point.

swt-shasta AP Radio Data Encryption

Cisco 350 Series AP 12.02T1

Uptime: 17 days, 19:23:40

If VLANs are *not* enabled, set Radio Data Encryption on this page. If VLANs are enabled, Radio Data Encryption is set independently for each enabled VLAN through [VLAN Setup](#).

Use of Data Encryption by Stations is: Full Encryption

Accept Authentication Type:	Open	Shared	Network-EAP
Require EAP:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Transmit With Key	Encryption Key	Key Size
WEP Key 1: <input checked="" type="radio"/>	<input type="text"/>	128 bit
WEP Key 2: <input type="radio"/>	<input type="text"/>	128 bit
WEP Key 3: <input type="radio"/>	<input type="text"/>	not set
WEP Key 4: <input type="radio"/>	<input type="text"/>	not set


Enter 40-bit WEP keys as 10 hexadecimal digits (0-9, a-f, or A-F).
Enter 128-bit WEP keys as 26 hexadecimal digits (0-9, a-f, or A-F).
This radio supports Encryption for all Data Rates.

Apply OK Cancel Restore Defaults

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Note: The AP Radio Data Encryption screen for your Cisco access point may look different than the one shown here.

- b Check the **Network-EAP** check box for **Accept Authentication Type**.
 - c Click **OK**.
- 3 On your Trakker Antares terminal, set the User Name and Password parameters.
- a Scan this bar code to access the TRAKKER Antares 2400 Menu System:
 TRAKKER Antares 2400 Menu System

 ..
 The Main Menu appears.
 - b Choose **Configuration Menu > Communications Menu > Radio**.
 - c Use the arrow keys to scroll to the LEAP screen and set the **User Name** and **Password** parameters.
- If you just want to make sure that your terminal can be authenticated, you can use the default values of “anonymous” and “anonymous.” However, Intermec recommends that you set your permanent user name and password to unique values. For help, see Chapter 6, “Configuration Command Reference,” in the 2400 Family system manual.
- 4 Exit the menu system and save all changes.
 - 5 When the terminal is authenticated, it emits a low beep and then a high beep. The application that was running on the terminal, if any, resumes.
 If authentication fails, the terminal emits a high beep and then a low beep. The terminal waits 60 seconds and restarts the authentication process.

Time Zone Configuration Command

Terminals: 241X, 242X, 243X, 2455, 2475, and 248X.

Description: The Time Zone configuration command sets the time zone on Trakker Antares terminals. With firmware version 8.02, you can now set the time zone using positive or negative values from -14 to +14 in increments of 15 minutes from 0, which represents Universal Time (UT).

Syntax: *DZdata*

Acceptable values for data are:

+/-	+ or -	Positive or negative
<i>hh</i>	0 to 14	Hours
<i>:mm</i>	15, 30, or 45	Minutes (optional)

Menu System: Not supported

Bar Codes: To set the default time zone, scan this bar code:

Set Time Zone to Pacific Standard Time



\$+DZ-8



Note: To set the time zone to a value other than the default value, use Wavelink Avalanche.

Keypad Type Configuration Command

Terminals: 243X

Description: The keypad type is initially configured in the terminal's firmware at the Intermec factory. If you change the keypad overlay, you need to configure the keypad type to match the new keypad overlay.

Syntax: *KTdata*

where acceptable values for *data* are listed in the next table. These additional values are available for the 243X 48-key keypad.

Keypad Type Acceptable Values for Data

Value	Description
a	Programmable, 48-key, 243X
b	International, 48-key, 243X
c	TE 2000, 48-key, 243X

Keypad Table Diagnostic

The keypad table diagnostic helps Intermec service personnel to identify the number of the keypad table that you have loaded on your terminal. The hexadecimal (hex) code displayed on the screen indicates which keypad table is loaded. The following hex codes identify keypad tables for the 243X 48-key keypad.

Keypad Table Hex Code Description

Hex	Description
0x35	Programmable, 48-key, 243X
0x36	International, 48-key, 243X
0x37	TE 2000, 48-key, 243X



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