



Release Notes 11.0

Craft Terminal

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New Features in Release 11.0

Release 11.0 introduces a new DMT line card. In addition, several new features and enhancements have been built into the system software that are designed to improve performance and provide increased functionality to the D50 and D50e systems.

- **DMT8a4 (D50) and eDMT8a4P (D50e) line cards.** The DMT8a4/eDMT8a4P line cards provide eight RADSL (Rate Adaptive Asymmetric DSL) lines using ANSI standard Discrete Multi-Tone (DMT) modulation technique. The cards support data rates of up to 8 Mbps downstream and 1 Mbps upstream¹. Both cards are compliant with the ANSI T1.413-1998 (Issue 2) and the DSL Forum TR-48 standard for increased loop performance. The cards support both “lite” ADSL (G.lite, corresponding to the G.992.2 ITU-T ADSL standard) and “full-rate” ADSL (G.dmt, corresponding to the G.992.1 ITU-T ADSL standard). Both “lite” and “full-rate” ADSL are spectrally compatible as defined in the E1 T1.4 Spectral Compatibility Standard Draft. The card ports are provisionable on an individual port basis. The G.hs (handshake) standard is used during the modem’s startup sequences. For the D50e eDMT8a4P card, the “P” suffix indicates the presence of a passive splitter for ADSL over POTS services.
- **ATM Interworking Function Constant (D50 only).** A new default Interworking Function (IWF) Descriptor index for ATM over DS1 connections has been created. When entered, the index automatically selects ATM over DS1 for the new connection.
- **SHDSL Pair Bonding.** Release 11.0 includes an SHDSL pair bonding feature which doubles the port bandwidth on the SHDSL8/eSHDSL8 line cards, providing a maximum of 4608 Kbps of symmetric service on a combined port pair. (The maximum data rate of a single port is 2304 Kbps.) The pair bonding feature can be enabled or disabled on demand, and requires pair bonding-compliant CPE.
- **OAM Cell Delay.** As an addition to the existing Loopback Result data, this feature indicates the time delay value for an OAM loopback cell in a successful OAM loopback test. This value is the difference between the time the cell is sent and the time it is returned. The OAM Cell Delay value is displayed in the ss:ms (seconds : milliseconds) format.
- **DMT Actual Bits per Tone.** This feature provides a graphical view of the number of bits allocated to each of the 256 tones for a selected DMT port. The graph displays a “snapshot” of the allocated bits for all 256 tones in a given instant. This feature is supported on all DMT8 line card types.
- **Trap Value.** A new trap value in Craft Terminal indicates the Attribute Fail condition. The trap with this value is generated for a specified card when one of the following situations occurs:
 1. The copyright information on the card is incorrect.
 2. The card is not supported by the system.
 3. The system could not retrieve one of the following for the card:
 - The equipment identifier.
 - The hardware configuration.
 - The hardware serial number.

¹ The DMT8a4/ eDMT8a4P line cards also support speeds up to 10.8 Mbps in 32 Kbps increments in Interleave Mode based on "S=1/2" from the ITU-T G992.1 standard, when used in conjunction with an "S=1/2"-compliant CPE.

What's New in Release 11.0

The card's shelf number and slot number are listed with the trap.

D50/D50e Craft Terminal is updated to support remote management of all required Release 11.0 features.

The **D50/D50e Administration Utilities Suite** includes the following new features in the Backup/Restore Wizard:

- Backup and restore functionality is enhanced as follows:
 - Multiple D50 or D50e systems can be backed up and restored simultaneously in a single application.
 - The simultaneous backup/restore capability is increased from 5 systems to 10 systems.
 - The IP addresses entered in previous sessions are stored using a CSV file.
 - Status and progress data is provided in a single view for all D50 or D50e systems being backed up or restored.
 - Errors, if any, are reported for all D50 or D50e systems being backed up or restored.
- The view area in the graphical user interface (GUI) is increased to accommodate the functionality enhancements.
- The *IP address input* page and the *Backup/Restore Location* page have been merged to form the new *Multiple IP input* page.
- The Command Line Interface (CLI) is enhanced as follows (supports backups only):
 - Multiple systems can be backed up simultaneously in a single application.
 - The simultaneous backup capability is increased from 5 systems to 10 systems.
 - File names can be generated automatically.
 - The wizard can be set to close automatically after the backup procedure is completed.
 - The Management Information Base (MIB) can be committed automatically.
 - User interaction is not required during normal operation after the backup procedure is initiated.

Line Interfaces

The focus in Release 11.0 is a new DMT line card.

- **DMT8a4 (D50) and eDMT8a4P (D50e) line cards.** The DMT8a4/eDMT8a4P line cards provide eight RADSL (Rate Adaptive Asymmetric DSL) lines using ANSI standard Discrete Multi-Tone (DMT) modulation technique. The cards support data rates of up to 8 Mbps downstream and 1 Mbps upstream. Both cards are compliant with the ANSI T1.413-1998 (Issue 2) and the DSL Forum TR-48 standard for increased loop performance. The cards support both "lite" ADSL (G.lite, corresponding to the G.992.2 ITU-T ADSL standard) and "full-rate" ADSL (G.dmt, corresponding to the G.992.1 ITU-T ADSL standard). Both "lite" and "full-rate" ADSL are spectrally compatible as defined in the E1 T1.4 Spectral Compatibility Standard Draft. The card ports are provisionable on an individual port basis. The G.hs (handshake) standard is used during the modem's startup sequences. For the D50e eDMT8a4P card, the "P" suffix indicates the presence of a passive splitter for ADSL over POTS services.

What's New in Release 11.0

D50/D50e Craft Terminal Software

D50/D50e Craft Terminal is an existing stand-alone application that connects to a D50 or D50e system over a serial or Ethernet connection to provide user-friendly graphical diagnostic and maintenance capabilities for the system. Craft Terminal supports the functionality of the D50 and D50e systems through its graphical interface.

D50/D50e Craft Terminal has been updated to support all Release 11.0 features. In addition, the following features have been added to the Craft Terminal:

- **Trap Value.** A new trap value in Craft Terminal indicates the Attribute Fail condition. This new trap is generated for a specified card when one of the following situations occurs:
 1. The copyright information on the card is incorrect.
 2. The card is not supported by the system.
 3. The system could not retrieve one of the following for the card:
 - The equipment identifier.
 - The hardware configuration.
 - The hardware serial number.

The card's shelf number and slot number are listed with the trap.

Craft Terminal Software Compatibility Matrix

	D50/D50e Software Releases				
	Release 11.0	Release 10.0.1	Release 10.0	Release 9.1.x	Release 9.0.x*
Craft Terminal 11.0	×	×	×	×	×

* Nokia software support policy allows for support of the current release and two releases back.

Status of Limitations in Release 11.0

Copies of Release Notes for all previous Craft Terminal software releases are available via Nokia Online Services (NOLS) on the Nokia website (<http://www.online.nokia.com/>).

D50/D50e Craft Terminal

Limitations

- Resetting the local counter to “0” in the Craft Terminal GUI connection window does not reset individual card counters. These counters must be reset separately.
- If you are using a serial port connection (PPP connection) with an IP address of 192.168.0.x and an Ethernet card with the same IP address, a connection cannot be established with the D50/D50e. The Ethernet IP address must be changed on the PC before establishing the serial connection.

Release 11.0 Problem Reports

Problem Reports in Release 11.0

Problem No.:	3539
Description:	On the D50e eMLA-TX card, the ingress filters allow the user to select a VLAN ID that does not have an associated PDU, resulting in the VLAN being unable to pass bridged traffic.
Status:	Open
