



Navigating the User Interface

This chapter covers these topics:

[Using the configuration menus](#)

[About MAX passwords](#)

[Special display characters and keys](#)

Using the configuration menus

You can access the MAX configuration menus in a VT100 emulation window from a computer connected to the Control port, or from a Palmtop Controller, as described in [Starting up the MAX](#). When you see the configuration menus, you have established a Console session.

You can also establish a Console session from any Telnet workstation by opening a Telnet session with the MAX. From a Telnet session you can perform all of the configuration, diagnostic, management, and other functions that could be performed from a computer connected to the MAX Control port. See [About MAX passwords](#) for related information.

You can also use the Rem Mgmt command to enable a caller at the far end of an AIM or MPP call to access the MAX configuration menus.

The main edit menu

The configuration interface consist the Main Edit Menu and eight status windows. The left part of the screen is the Main Edit Menu, which is used to configure the MAX. The items listed in the Main Edit Menu differ depending on the system configuration. The Empty items represent expansion slots that do not contain a card. See [Understanding menu numbers](#) for related information.

```

|----- MAX EDIT -----|-----|-----| | |
|Main Edit Menu          | |10-100 1234567890 | |10-200 1234567890 |
| 00-000 System         | | L1/LA nnnnnnnnnn | | L2/RA ..... |
| 10-000 Net/T1         | | 12345678901234 | | 12345678901234 |
| 20-000 Net/T1         | | nnnnnnnnnnnnnn | | ..... |
| 30-000 LAN Modem      | |-----|-----|
| 40-000 Host/BRI       | |90-100 Sessions   | |00-200 15:10:34 |
| 50-000 Host/Dual      | |> 1 Active        | |>M31 Line Ch   |
| 60-000 Empty          | | o slc-lab-236    | | LAN session up |
| 70-000 Empty          | |                  | | slc-lab-236   |
| 80-000 V.34 Modem     | |-----|-----|
|>90-000 Ethernet      | |90-300 WAN Stat   | |90-400 Ether Stat |
| A0-000 Ether Data     | |>Rx Pkt: 184318^  | |>Rx Pkt: 3486092 |
| B0-000 Reserved      | | Tx Pkt: 159232  | | Tx Pkt: 10056   |
|                       | | CRC: 0v         | | Col: 3530      |
|                       | |-----|-----|
|                       | |00-100 Sys Option | |Main Status Menu |
|                       | |>Security Prof: 1 ^| |>00-000 System   ^|
|                       | | Software +5.0A0+ | | 10-000 Net/T1   |
|                       | | S/I: 5210003    v| | 20-000 Net/T1   v|
Press Ctrl-n to move cursor to the next menu item. Press return to select it.
Press Tab to move to another window --- thick border indicates active window.

```

Figure 4-1. MAX 6000 series configuration menus

Note: For an overview of how the MAX menus and profiles are organized, see the *MAX Reference Guide*.

Making a menu or status window active

You can interact with only one display at a time. The active display has a thick double line border on the left, right, and top sides. In [Figure 4-1](#), the 10-100 status display is active (near the top-middle of the screen).

If you press the Tab key, the thick double lines move to 00-200, the next screen to the right. If you continue pressing the Tab key, you activate each window from left to right and down, until you reach the last display in the lower right-hand corner. Back-Tab or Ctrl-O moves you in the opposite direction.

Opening menus and profiles

The Main Edit Menu contains a list of menus, each of which can contain profiles and submenus. In the menu that is currently open, the cursor character (>) points to one item in the menu. To move the cursor down, press Ctrl-N (next) or the down-arrow key. To move it up, press Ctrl-P (previous) or the up-arrow key. (Some VT100 emulators do not support the use of arrow keys.) For a complete list of key combinations used to navigate the interface, see [Table 4-1](#).

```

Main Edit Menu

    00-000 System

    >10-000 Net/T1

    20-000 Net/T1

    30-000 Empty

```

```
40-000 Empty
50-000 V.34 Modem
60-000 V.34 Modem
70-000 Net/T1
80-000 V.34 Modem
90-000 Ethernet
A0-000 Ether Data
b0-000 Serial WAN
```

To open a menu, move the cursor to the menu's name and press Enter. For example, press Ctrl-N until the cursor points to 90-000 Ethernet, and press Enter. The Ethernet menu opens.

```
90-000 Ethernet
90-100 Connections
90-200 Names/Passwords
90-300 Bridge Adrs
90-400 Static Rtes
90-500 Filters
90-600 Firewalls
90-700 Frame Relay
90-800 Answer
90-900 SNMP Traps
90-A00 IPX Routes
90-B00 IPX SAP Filters
90-C00 Mod Config
```

The Ethernet menu contains submenus and profiles related to network functionality, such as bridging, routing, WAN connections, and so forth. The Mod Config Profile in this menu relates to the configuration of the Ethernet interface itself, as shown next.

```
90-B00 Mod Config
  Module Name=
  Ether options...
  WAN options...
  SNMP options...
  OSPF options...
```

```
OSPF global options...
Route Pref...
TServ options...
Bridging=No
Shared Prof=No
Telnet PW=
RIP Policy=Poison Rvrs
RIP Summary=Yes
ICMP Redirects=Accept
BOOTP Relay...
DNS...
```

Note: With the exception of parameters designated N/A (not applicable), you can edit all parameters in any profile. A profile is a group of parameters listed under a particular menu entry. N/A that means a parameter does not apply within the context of how some other parameter(s) or profile has been set.

Opening edit fields

To open an edit field for a text-based parameter (such as a password, for example), move the cursor to that parameter and press Enter. An edit field opens, delimited by brackets, as shown for the Telnet PW parameter, next.

```
90-B00 Mod Config
Module Name=
Ether options...
WAN options...
SNMP options...
OSPF options...
OSPF global options...
Route Pref...
TServ options...
Bridging=No
Shared Prof=No
Telnet PW:
[ ]
```

```
ICMP Redirects=Accept  
BOOTP Relay...  
DNS...
```

Note: See [About MAX passwords](#) for related information.

A blinking text cursor appears in the brackets, indicating that you can start typing text. If the field already contains text, it is cleared when you type a character. To modify only a few characters of existing text, use the arrow keys to position the cursor and then delete or overwrite the characters.

To close the edit field and accept the new text, press Enter.

Setting enumerated parameters

An enumerated parameter is one for which there is a set of predefined values. You modify it by simply placing the cursor beside the parameter and typing the Enter, Return, or the Right-Arrow key until the proper value appears.

Saving your changes

When you exit a profile, you are prompted to confirm that you want to save changes.

```
EXIT?  
  
>0=ESC (Don't exit)  
  
1=Exit and discard  
  
2=Exit and accept
```

You can save the profile values by choosing the Exit and Save option and pressing Enter, or by pressing 2.

Using the Palmtop Controller

If you have a standard MAX unit, or if you purchased the Palmtop Controller expansion card for the MAX 4000, you can plug in the 4-line LCD display called the Palmtop Controller to establish a Console Session.

In the Palmtop Controller, each menu displays only four lines, and each line displays a maximum of 20 characters. The Palmtop Controller screen contains a single display.

```
Main Edit Menu  
  
>00-000 System  
  
10-000 Net/...  
  
20-000 Host/...
```

The process of editing from the Palmtop Controller is nearly identical to the process of editing from the Control Monitor, except that the Right-Arrow key replaces the functions of the Enter/Return key.

That is, after you position the cursor (>) in front of a parameter, you must press the Right-Arrow key to begin to edit. In the window shown immediately below, the cursor is in front of the Name parameter:

```
21-101 Albuquerque+ O
```

```
>Name=Mark
```

```
Dial #=555-1212
```

```
Call Type=AIM
```

When you press the Right-arrow key, an edit field opens, and the current value is shown within the brackets:

```
21-101 Albuquerque+ O
```

```
Name :
```

```
[Mark]
```

See [Opening edit fields](#) for more details about how to enter text.

About MAX passwords

The MAX has up to nine security levels, each of which is defined in a Security Profile. When shipped from the factory, all nine levels are wide open, with no defined restrictions. To see the list of Security Profiles, open the System menu in the Main Edit Menu, and then select Security and press Enter.

```
00-300 Security
```

```
>00-301 Default
```

```
00-302
```

```
00-303
```

```
00-304
```

```
00-305
```

```
00-306
```

```
00-307
```

```
00-308
```

```
00-309 Full Access
```

Whenever the MAX is powered on, it activates the first Security Profile in this list, which is always named Default and always has no password. One of the first thing most administrators do is to reset the privileges in the Default profile to restrict what can be done by anyone accessing the MAX configuration menus. This is an important four-step process:

1. Open the Default Security Profile and set the Operations privilege to No.
2. Assign a password to the Full Access Security Profile. (Do not restrict privileges in the Full

Access Profile.)

3. Activate the Full Access Security Profile and proceed to configure the MAX.

See the *MAX Security Supplement* for full details on modifying Security Profiles and assigning passwords.



Caution: If you reset or power-cycle the MAX, it activates the new, restrictive Default profile. You will not be able to perform any configuration tasks until you activate and supply the password for the Full Access Profile, described next. The default password for the Full Access Profile is Ascend.

To activate the Full Access Security Profile, press Ctrl-D. A context-sensitive menu, called the DO menu, is displayed.

```
90-C00 Mod Config
```

```
DO...
```

```
>0=Esc
```

```
P=Password
```

```
C=Close TELNET
```

```
E=Termsrv
```

```
D=Diagnostics
```

In the DO menu, press P (or select P=Password). The list of Security Profiles will be displayed. Select Full Access and press Enter. The MAX prompts for that profile's password.

```
00-300 Security
```

```
Enter Password:
```

```
[ ]
```

```
Press > to accept
```

Type the password and press Enter to accept it. (We recommend that you modify the Full Access Profile to assign a password other than the default "Ascend" as soon as possible.)

A message states that the password was accepted and the MAX is using the new security level, or if the password you entered is incorrect, you are prompted again to enter the password.

Note: For a Console session established via Telnet, the caller must first supply the Telnet password to establish a Telnet session. Then, the Default security level is set for that session. To configure the MAX via Telnet, the caller must activate the appropriate Security Profile.

Special display characters and keys

The following characters have special meaning within the displays:

- The plus character (+) indicates that an input entry is too long to fit onto one line, and that the MAX is truncating it for display purposes.
- Ellipses (...) mean that a submenu displays the details of a menu option.

The MAX displays the submenu when you select the menu option.

The following table lists the special-purpose keys and key combinations you can use in the Control Monitor and Palmtop Controller displays.

Table 4-1. Special keys for Control Monitor and Palmtop Controller displays

Palmtop Controller	Control Monitor	Operation
>	Right-Arrow, Return, Enter, Ctrl-Z, Ctrl-F	Enumerated parameter: Select the next value. String value: Move one character to the right or enter the current input. Menu: Open the current selection.
<	Left-Arrow, Ctrl-X, Ctrl-B	Enumerated parameter: Select the previous value. String value: Move left one character or exit the current input. Menu: Close the current selection.
v	Down-Arrow, Ctrl-N	Move down to the next selection.
^	Up-Arrow, Ctrl-U, Ctrl-P	Move up to the previous selection.
N/A	Ctrl-V	Move to the next page of the list.
N/A	Tab, Ctrl-I	Move to the next window.
	Back-Tab, Ctrl-O	Move to the previous window.
TOGGLE STAT	N/A	Toggle to a status menu from the edit menu and vice versa.
Shift->	Delete	Delete the character under the cursor.
Shift-<	Backspace	Delete the character to the left of the cursor.
Shift-^	none	Overwrite the character under the cursor with a space.
DO	Ctrl-D	Open the DO menu.
N/A	Ctrl-T	Return from or go to the Simplified Menus.
N/A	Ctrl-L	Refresh the vt-100 screen.
N/A	Ctrl-C	Return from the MIF to the normal menus.
D	D	Dial the currently selected profile.

Note: You always use the Control and Shift keys in combination with other keys. This document represents key combinations as two characters separated by a hyphen, such as Shift- T, which types the capital letter T. On the Palmtop Controller, the main character associated with the key is large and white, and the Shift- character associated with the key is small and yellow.

Understanding menu numbers

The MAX has with four built-in T1 or E1 lines and a V.35 serial port for WAN access. It also has eight expansion slots, which can support additional bandwidth (BRI lines), AIM ports modules to support videoconferencing, or digital modems to support analog modem connections over digital lines.

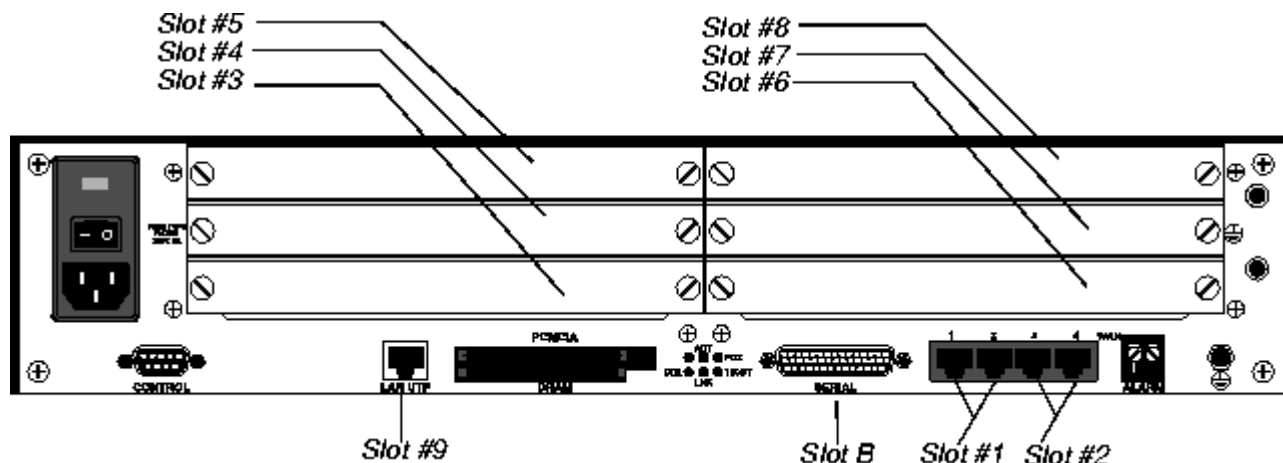


Figure 4-2. Slot and port numbering in the MAX 6000 series

The numbers in the vt100 menus relate to slot numbers in the MAX unit, which may be an actual expansion slot or *virtual* slot on the MAX unit's motherboard.

- The system itself is assigned slot number 0 (menu 00-000).

The System menu contains these profiles and submenus, which are all related to system-wide configuration and maintenance:

```

00-000 System
    00-100 Sys Config
    00-200 Sys Diag
    00-300 Security
    00-400 Destinations
    00-500 Dial Plan
    
```

- The built-in T1 or E1 lines are slot 1 and slot 2 (menu 10-000 and 20-000).

Each T1 or E1 slot contains two lines. The menus for configuring and testing the lines are organized like this:

```

10-000 Net/T1 (Net/E1)
    10-100 Line Config
    10-200 Line Diag

20-000 Net/T1 (Net/E1)
    20-100 Line Config
    20-200 Line Diag
    
```

- The six expansion slots are slots 3 through 8 (menus 30-000 through 80-000), with the numbering shown in [Figure 4-2](#).
- The Ethernet is slot 9 (menu 90-000). The Ethernet menu contains submenus and profiles

related to the local network, routing and bridging, and WAN connections.

- EtherData is slot A (menu A0-000). For the MAX with built-in Ethernet, this menu is not applicable.
- The serial WAN port is slot B (menu B0-000).

This is an example Main Edit Menu at the top level, which shows expansion modules installed in slots 3 through 8. (Note that slot A is not applicable to the MAX with built-in Ethernet.)

```
Main Edit Menu
  00-000 System
  10-000 Net/T1
  20-000 Net/T1
  30-000 Host/Dual
  40-000 Host/BRI
  50-000 Net/BRI
  60-000 BRI/LT
  70-000 V.34 Modem
  80-000 V.110
  90-000 Ethernet
  A0-000 Ether Data
  B0-000 Serial WAN
```

Now that you understand the MAX user interface, proceed to the *MAX ISP & Telecommuting Configuration Guide*.

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