THOMSON

ViBE

1RU and 5RU platforms

1RU Chassis Front panel

User Manual

Release 4.2

46072085LB01
March 2011

CE

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User documentation

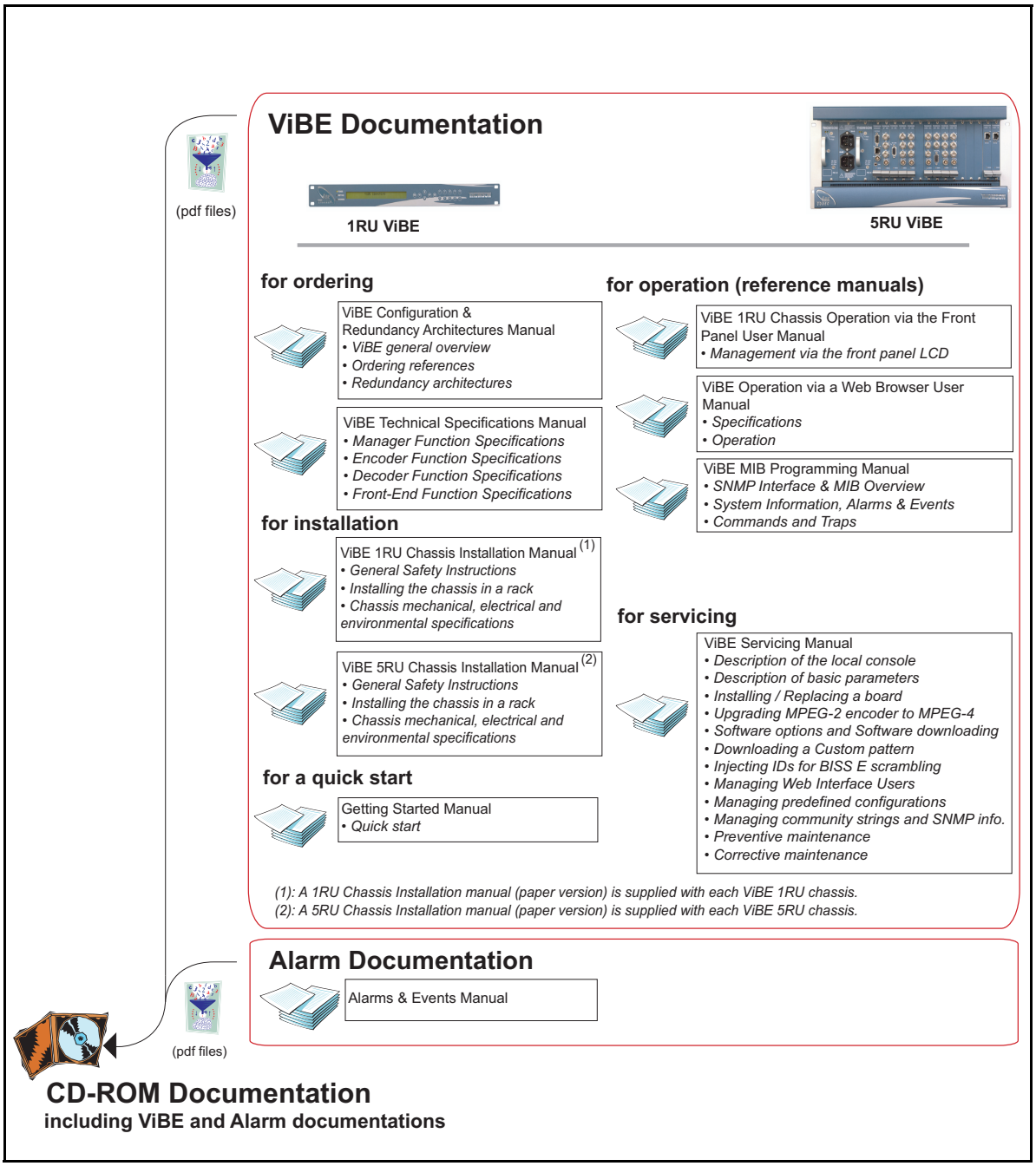
DOCUMENTATION ORGANISATION AND MANUAL CONTENTS

XMS + MCC + ViBE documentation is contained on the CD-ROM shipped together with the ViBE software CD-ROM.

A printed version of the ViBE 1RU Installation manual or ViBE 5RU Installation manual is supplied with each ViBE chassis as these manuals contain essential safety precautions which must be read before operating the device.

The rest of documentation is also available in printed version at an extra cost (see section "Printed Manuals").

DOCUMENTATION CD-ROM



PRINTED MANUALS (OPTION)

As an option, the electronic manuals (PDF format) found on the Documentation CD-ROM are also available in paper version.

ViBE User manuals	
Sales references	**Manual type and comment**
N6000M0JAV  **Optional ENGLISH Paper version**	Manuals for ViBE, English paper version, including: • : 1 ViBE 1RU Chassis Installation manual; • : 1 ViBE 5RU Chassis Installation manual; • : 1 ViBE Configuration manual; • : 1 ViBE Technical Specification manual; • : 1 ViBE Getting started manual; • : 1 ViBE 1RU Operation from the front panel User manual; • : 1 ViBE Operation via a Web browser User manual; • : 1 ViBE MIB Programming manual; • : 1 ViBE Servicing manual. • : 1 Alarms & Events manual.

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PURPOSE OF THIS MANUAL

This manual describes operation via the 1RU chassis front panel. For more information on device operation, please see the *XMS 3500 User Manual* if operation is performed via the XMS 3500 Management system, or the *Web Interface User Manual* if operation is performed via a Web Browser.

Notes:

- Chassis rack installation is described in the *Chassis Installation guide*.
- Chassis and board start-up is described in the *Getting started guide*.
- Advanced technical operations (installing a board, installing a software option, etc.) are described in the *Servicing manual*.

WHAT IS NEW IN RELEASE 4.2?

Release 4.2 features are identical to release 4.1 features.

Contents

1 - FRONT PANEL DESCRIPTION AND OVERVIEW

1.1 - Foreword

The aim of the front panel is not to replace the Management system but to provide a basic control/command interface for the main settings.

Device operation via its front panel is limited to:

- changing basic settings (IP settings, etc.);
- displaying device codes and board and chassis serial numbers;
- displaying installed functions and boards;
- displaying the installed firmware;
- displaying raised alarms;
- recalling predefined function (partial configuration) or chassis (overall configuration) configurations. These configurations can be defined via the Web Interface or via the XMS 3500 and the Local Console. For more information, see the *Web Interface User Manual* or the *XMS 3500 User Manual* and *Servicing guide*.
- rebooting the device.

1.2 - Description and overview

The chassis front panel features an LCD screen, a 16-key keypad (0 to 9, ESC, OK and 4 arrow keys), and a set of three LEDs providing a visual indication of overall device operation.

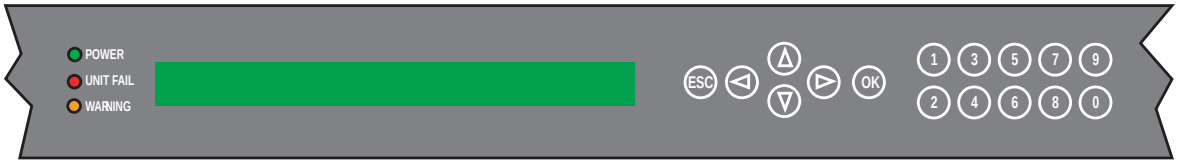

Figure 1: 1RU chassis front panel

- **LEDs**

The LEDs display the overall device state.

They indicate the following:

LED	Colour	Description
POWER	green	Device on
UNIT FAIL	red	At least one major alarm has been raised
WARNING	orange	At least one minor alarm has been raised

Table 1: Meaning of LEDs on 1RU chassis front panel

- **Keypad**

The keypad features 16 keys:

- Six function keys used to display and select a menu or a setting.

Key	Functions
→	Move the cursor right.
←	Move the cursor left.
↑	Move the cursor up.
↓	Move the cursor down.
OK	Access the main menu, a sub-menu or confirm a setting value.
ESC	Back to the menu above.

Table 2: Role of 1RU chassis front panel keys 1/2

- 10 numerical keys:

Keys	Functions
0 to 9	Edit setting values.

Table 3: Role of 1RU chassis front panel keys 2/2

➢ **LCD**

The LCD screen is an alphanumeric display featuring two lines each with forty characters.

Symbols to guide operation, or markers, help to locate and/or select displayed items:

Symbol	Indication
/	Wheeling symbol, in the top left of the welcome screen indicating that the Manager board is operational.
> <	Text preselection marker which can then be confirmed by pressing the ***OK*** key on the keypad. Move using the four arrow keys.
∧	Fixed marker to the right of the screen indicating that the list displayed extends upwards.
∨	Fixed marker to the right of the screen indicating that the list displayed extends downwards.

Table 4: Meaning of 1RU chassis front panel LCD symbols

1.3 - Adjusting LCD screen contrast

For optimum readability of texts displayed on the LCD screen, it may be necessary to adjust the contrast according to the lighting conditions:

- To increase screen contrast, press the ***ESC*** and ↑ keys together.

- To reduce screen contrast, press the ***ESC*** and ↓ keys together.

2 - SCREEN DESCRIPTION

2.1 - Screen menu tree

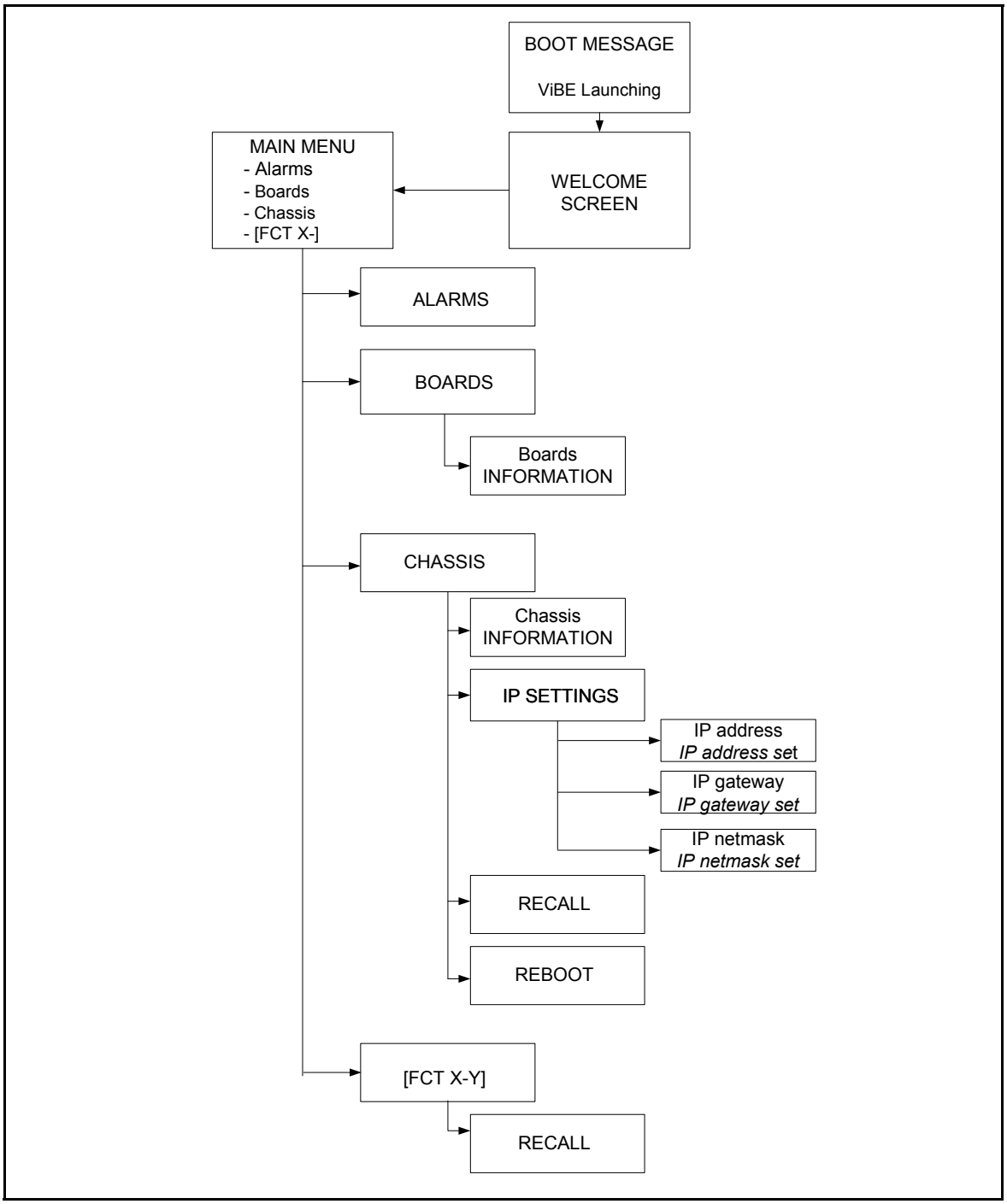

Figure 2: Menu tree of screens displayed on the 1RU chassis front panel

2.2 - Summary of screen functions

List summarising the functions which can be accessed via the screens:

Screens	Function	Function description
Device booting screen	Indicates that the device is starting up.	*page 8*
Welcome screen	Indicates device name, IP address and operation mode.	*page 8*
MAIN MENU screen	Displays available sub-menus and functions installed in the chassis.	*page 9*
ALARMS screen	Displays alarms raised on the device.	*page 11*
BOARD screen	Displays boards installed in the chassis.	*page 12*
• BOARD INFORMATION screen	Displays board status according to the topology declared in the chassis and board manufacturer information.	*page 9*
CHASSIS screen	Displays available sub-menus.	*page 15*
• INFO screen (chassis)	Displays chassis manufacturer information.	*page 16*
• IP SETTINGS screen	Displays device IP settings.	*page 17*
• IP ADDRESS screen	Used to edit device IP address.	*page 18*
• IP GATEWAY screen	Used to edit device IP gateway address.	*page 19*
• IP NETMASK screen	Used to edit device IP netmask.	*page 20*
• RECALL screen (chassis)	Used to recall a predefined overall chassis configuration.	*page 22*
• REBOOT screen	Used to reboot all device boards.	*page 24*
[X - Y] function screen	Displays available sub-menu.	*page 25*
• RECALL screen (function)	Used to recall a predefined function configuration.	*page 26*

Table 5: Functions accessible via the 1RU chassis front panel screens

2.3 - Device booting screen

When the device is switched on, the firmware is loaded into the different device modules. The following message is displayed while the Manager board is starting up:

Figure 3: Booting screen - 1RU chassis LCD

Once the board is operational, the welcome screen is displayed:

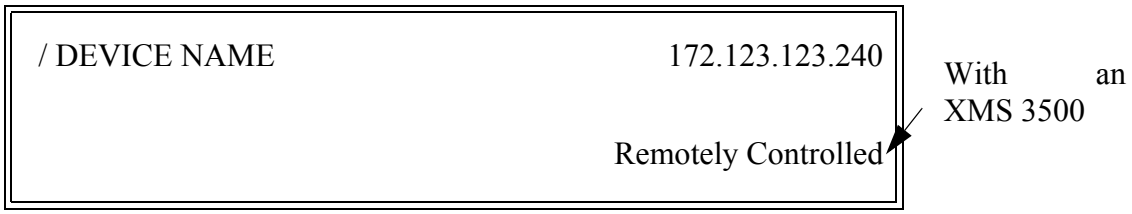

Figure 4: Welcome screen - 1RU chassis LCD

The welcome screen is described in section *Welcome screen, page 8*.

2.4 - Welcome screen

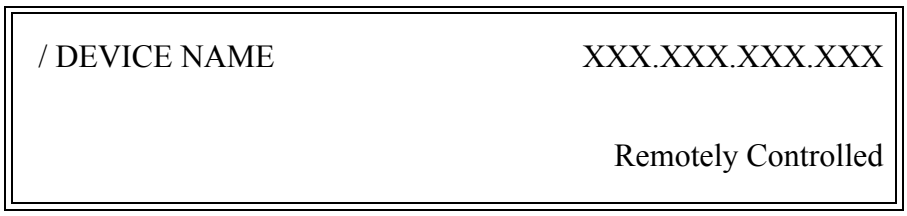

Figure 5: Welcome screen - 1RU chassis LCD

- ***Meaning of fields:***

/ Wheeling symbol indicating that the Manager board is operational.

DEVICE NAME Chassis name (20 characters maximum). The name is allocated by the Operator via the Management system.

XXX.XXX.XXX.XXX Chassis IP address.

Remotely Controlled

Indicates that the device is being operated via an XMS 3500 Management system (***REMOTE*** mode). If the device is being operated via the front panel or the Web Interface, no message is displayed.

2.5 - MAIN MENU screen

To display the *MAIN MENU* screen:

- from the Welcome screen, press the ***OK*** key;
- from a sub-menu, press the ***ESC*** key once or more depending on the sub-menu displayed.

The following screen is displayed:

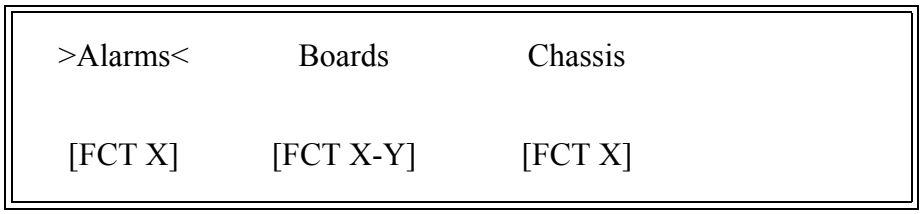

Figure 6: MAIN MENU screen - 1RU chassis LCD

To select a sub-menu, use the ← or → keys and confirm with the ***OK*** key.

- ***Available sub-menus:***

Alarms	to display alarms raised on the chassis.
Boards	to get information about board reference numbers, serial numbers and version numbers.
Chassis	to get information about the chassis reference number, serial number and version number.

- ***Sub-menus which can be accessed according to chassis boards:***

The sub-menu headings ***[FCT X-Y]*** are made up of the type of function (***FCT***) installed in the chassis followed by the chassis function board slot numbers ***X*** and ***Y***. The ***X*** value indicates the slot of the first function board and the ***Y*** value indicates the slot of the last function board. If the function features only one board, only the ***Y*** value will be displayed. The ***FCT*** function type has the following possible values:

FCT	Function type
MAN	Manager (not displayed in the *MAIN MENU screen*)
ENC	Encoder
DEC	Decoder
PDH	PDH Front End
ASI	ASI Front End
HBT	IP Front End

Table 6: FCT and function type - 1RU chassis LCD

Example

[ENC 2-4] indicates an Encoder function whose first board is in slot 2 and whose last board is in slot 4.

The ***[FCT X-Y]*** sub-menus are used to recall a predefined configuration for the function.

2.6 - ALARMS screen

The *Alarms* screen is used to view alarms raised on the chassis. To display this screen, go to the *MAIN MENU* screen, select ***Alarms*** using the arrow keys and press ***OK***.

The following screen is displayed:

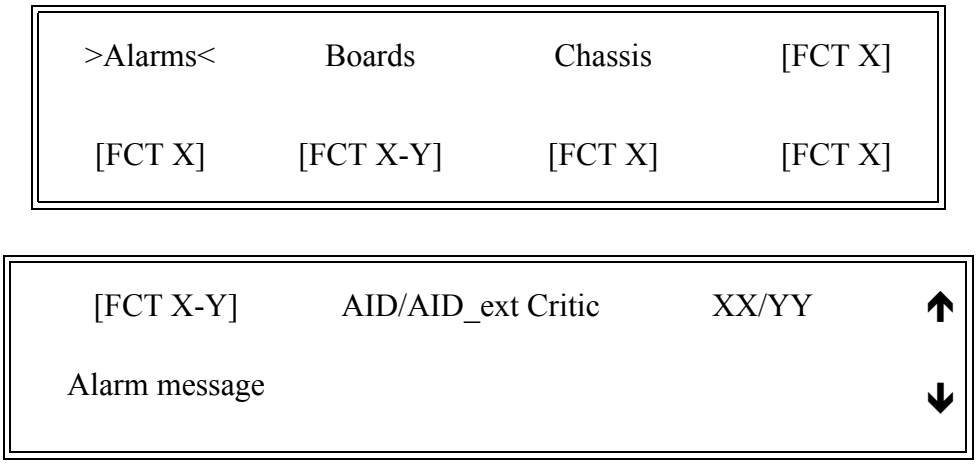

Figure 7: *ALARMS* screen - 1RU chassis LCD

- ***Meaning of fields:***

[FCT X-Y] : indicates the function name. The syntax is described in the previous section. ***[FCT X-Y]*** may display the value ***CHASSIS*** if the alarm relates to the chassis.

AID/AID_ext : indicates alarm identifiers (Alarme ID and Alarme ID Extension) used to identify the alarm to make it easier to find relevant information in the documentation.

Critic : indicates alarm severity. The alarm can be ***MAJOR*** or ***minor***.

XX/YY: ***XX*** indicates the number of the alarm in the ***YY*** list where ***YY*** represents the total number of alarms raised.

Alarm message : indicates the alarm description, which is identical to the description displayed in the Management system.

The 🡻 and 🡹 keys are used to display the next or previous alarms. The 🡸 and 🡺 keys are used to scroll through the alarm text.

Note: The list of alarms is created when the ***ALARMS*** screen is selected. To update the list of alarms, you will need to quit the ***ALARMS*** screen.

2.7 - BOARD screen

The *BOARD* screen is used to view the boards installed in the chassis. To display this screen, go to the *MAIN MENU* screen, select ***Boards*** using the arrow keys and press ***OK.***

The following screen is displayed:

```
>[MANAGER]<        [ZZ ZZZ]          [       ]

 [XX XXXX]         [YYY YYY]         [       ]
```

Figure 8: BOARD screen - 1RU chassis LCD

The different fields correspond to the boards detected in chassis slots 1 to 6 (rear panel view).

Figure 9: 1RU chassis slots - rear view

To select a board, choose the required board using the arrow keys and confirm by pressing the ***OK*** key.

2.7.1 - BOARD INFORMATION screen

The *BOARD INFORMATION* screen is used to get manufacturer information for the boards installed in the chassis. To display this screen, go to the *BOARD* screen (above), select the board using the arrow keys and press ***OK***.

The beginning of the information list is displayed:

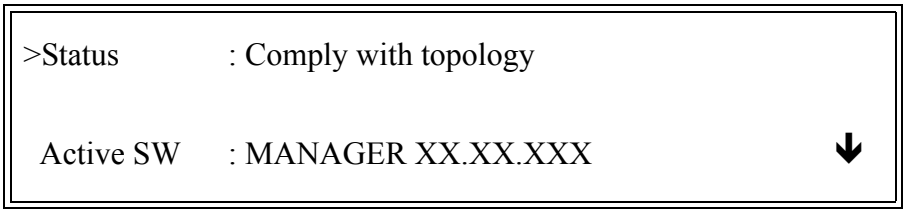

Figure 10: BOARD INFORMATION screen 1/3 - 1RU chassis LCD

Press ↓ to display the next part of the list:

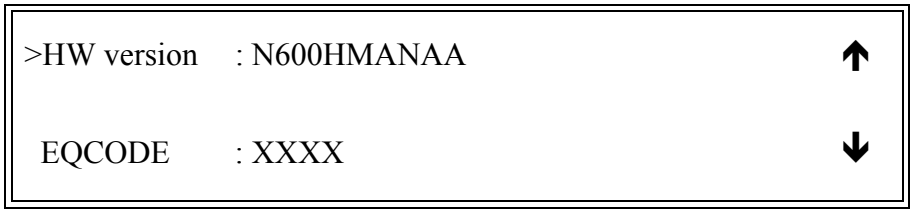

Figure 11: BOARD INFORMATION screen 2/3 - 1RU chassis LCD

Press ↓ to display the end of the list:

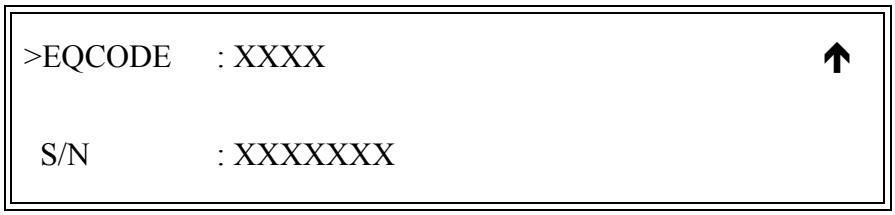

Figure 12: BOARD INFORMATION screen 3/3 - 1RU chassis LCD

➢ ***Meaning of fields:***

Status : indicates whether the board installed in the slot corresponds to the board declared in the chassis topology. Boards are declared via the XMS 3500 Management system {**Equipment Installation**} application or the Web Interface.
The following statuses may be displayed:
Comply with topology: the board installed corresponds to the one declared (also indicates that no board has been installed and none has been detected).
Board type mismatch: the board installed does not correspond to the one declared.
Board missing: a board has been declared but there is no board in the slot.
Board not declared: there is a board in the slot but it has not been declared.

Active SW : indicates the software release enabled on the board. This information is available for the Manager board and Main boards if their ***Status*** is ***Comply with topology***.

HW version : indicates the board version number. This information is available for all boards.

EQCODE : indicates the board code. The code is used to order a software option for the board from Thomson. This information is available for the Manager board and

Main boards. For further information about ordering and installing software options, see the *Servicing manual*.

S/N : indicates the board serial number. This information is available for all boards.

2.8 - CHASSIS screen

To display this screen, go to the *MAIN MENU* screen, select ***Chassis*** using the arrow keys and press ***OK***.

The following screen is displayed:

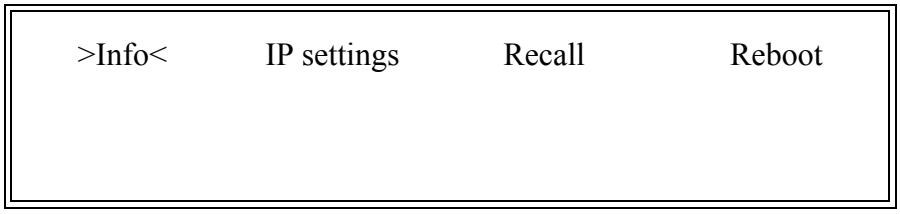

Figure 13: *BOARD* screen - 1RU chassis LCD

➢ ***Meaning of fields:***

Info used to display chassis information.

IP settings used to configure the chassis IP settings.

Recall used to recall a predefined chassis configuration. These configurations can be defined via the Web Interface or via the XMS 3500 and the Local Console. For more information, see the *Web Interface User Manual* or the *XMS 3500 User Manual* and *Servicing guide*.

Reboot used to reboot all chassis boards.

2.8.1 - INFO screen (chassis)

The *INFO* screen is used to get chassis manufacturer information. To display this screen, go to the *CHASSIS* screen, select ***Info*** using the arrow keys and press ***OK.***

The beginning of the information list is displayed:

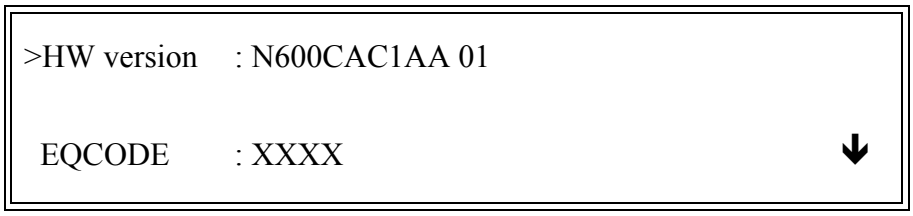

Figure 14: INFO screen 1/2 - 1RU chassis LCD

Press ↓ to display the end of the list:

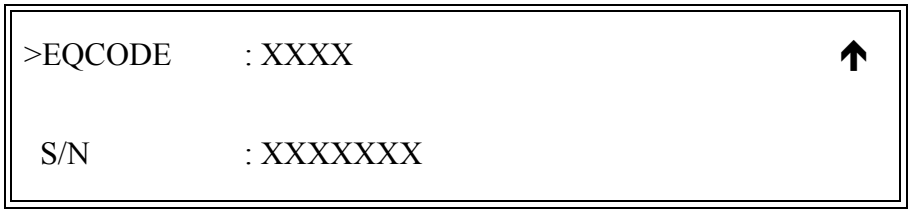

Figure 15: INFO screen 2/2 - 1RU chassis LCD

➢ ***Meaning of fields:***

HW version : indicates the chassis version number.

EQCODE : indicates the chassis code. This code is used to order a software option for the chassis from Thomson.

S/N : indicates the chassis serial number.

2.8.2 - IP SETTINGS screen

The *IP SETTINGS* screen is used to view the IP settings. To display this screen, go to the *CHASSIS* screen, select the ***IP Settings*** sub-menu using the ← ou → keys and press ***OK*.**

The beginning of the IP settings list is displayed:

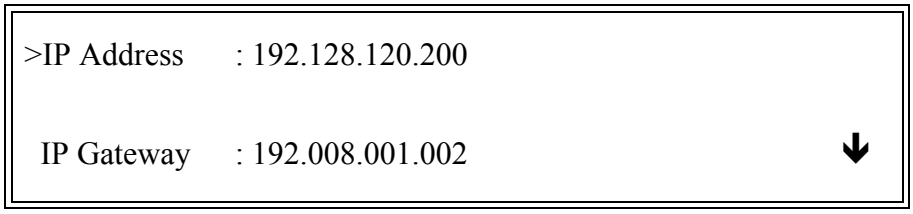

Figure 16: IP SETTINGS screen 1/2 - 1RU chassis LCD

Press ↓ to display the end of the list:

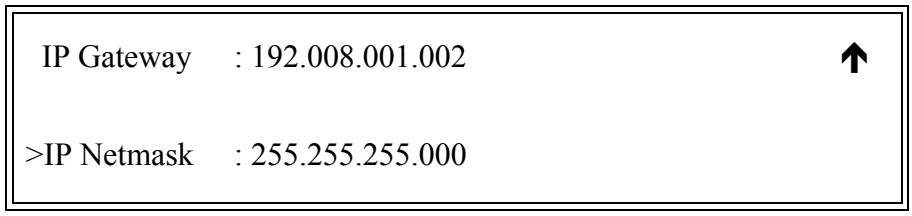

Figure 17: IP SETTINGS screen 1/2 - 1RU chassis LCD

➢ ***Meaning of fields:***

IP Address : indicates the current device IP address.

IP Gateway : indicates the current IP Gateway address. If a GATEWAY address is not used, the value must be set to 000.000.000.000.

IP Netmask : indicates the current IP Netmask address.

2.8.2.1 - IP ADDRESS screen

The *IP ADDRESS* screen is used to change the device IP address. To display this screen, go to the *IP SETTINGS* screen, select the ***IP Address*** sub-menu using the 🡻 or 🡹 keys and press ***OK*.**

The following screen is displayed:

IP Address : 192.128.120.200
New value : 192.128.120.155

Figure 18: IP ADDRESS screen 1/3 - 1RU chassis LCD

➢ ***Meaning of fields:***

IP Address : indicates the current device IP address.

New value : indicates the new IP address value.

➢ ***Procedure for changing the IP address:***

- Enter the new IP address value in the ***New value*** field using the ***0*** to ***9*** keys. You can move quickly through the digits using the 🡸 or 🡺keys.
- Confirm the new value by pressing ***OK***.
  - If the entered value is correct, the following information screen is displayed:

Info : Use reboot to apply changes
Press OK or Esc to continue

Figure 19: IP ADDRESS screen 2/3 - 1RU chassis LCD

It prompts the user to reboot the device for the new values to be acknowledged. Press ***OK*** or ***ESC*** to go back to the previous screen.

- If the entered value is incorrect, the following warning screen is displayed:

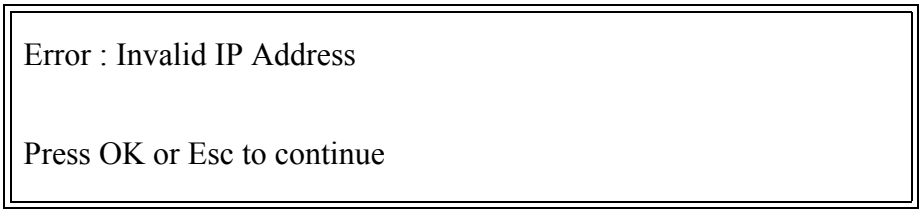

Figure 20: IP ADDRESS screen 3/3 - 1RU chassis LCD

It warns the user that the entered value contains an error. Press ***OK*** or ***ESC*** to go back to the previous screen.

- Reboot the device. See section *REBOOT screen, page 24*.

2.8.2.2 - IP GATEWAY screen

To display the *IP GATEWAY* screen, go to the *IP SETTINGS* screen, select the ***IP Gateway*** sub-menu using the 🡻 or 🡹 keys and press ***OK.***

The following screen is displayed:

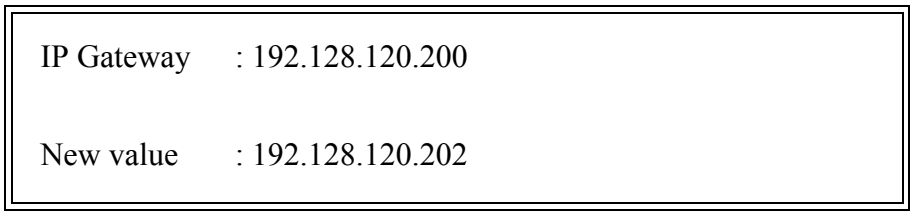

Figure 21: IP GATEWAY screen 1/3 - 1RU chassis LCD

➢ ***Meaning of fields:***

IP Gateway : indicates the current device IP Gateway address.

New value : indicates the new IP Gateway address value.

➢ ***Procedure for changing the IP Gateway address:***

- Enter the new IP Gateway address value in the ***New value*** field using the ***0*** to ***9*** keys. You can move quickly through the digits using the 🡸 or 🡺 keys.

- Confirm the new value by pressing ***OK***.
  - If the entered value is correct, the following information screen is displayed:

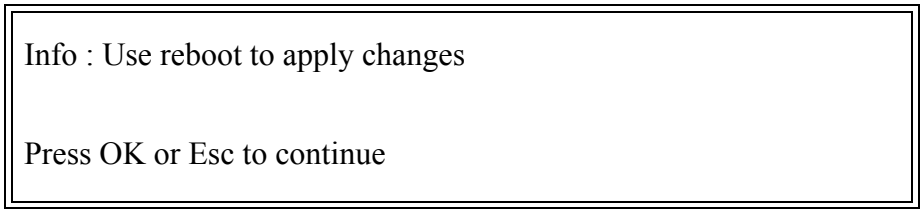

Figure 22: IP GATEWAY screen 2/3 - 1RU chassis LCD

It prompts the user to reboot the device for the new address values to be acknowledged. Press ***OK*** or ***ESC*** to go back to the previous screen.

- If the entered value is incorrect, the following warning screen is displayed:

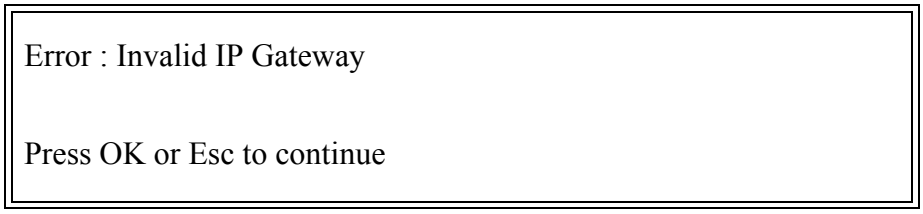

Figure 23: IP GATEWAY screen 3/3 - 1RU chassis LCD

It warns the user that the entered value contains an error. Press ***OK*** or ***ESC*** to go back to the previous screen.

- Reboot the device. See section *REBOOT screen, page 24*.

2.8.2.3 - IP NETMASK screen

To display the *IP NETMASK* screen, go to the *IP SETTINGS* screen, select the ***IP Netmask*** sub-menu using the 🡻 or 🡹 keys and press ***OK.***

The following screen is displayed:

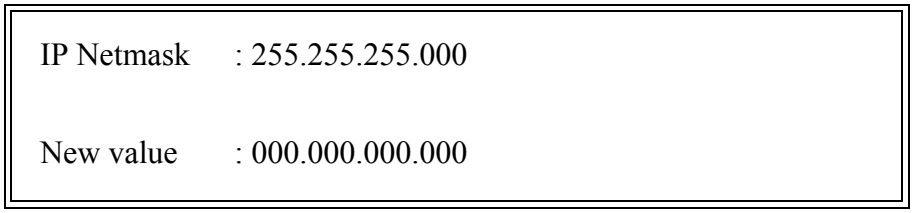

Figure 24: IP NETMASK screen 1/3 - 1RU chassis LCD

➢ ***Meaning of fields:***

IP Netmask : indicates the current device IP Netmask address. If Netmask is not used, the address must be set to ***000.000.000.000***

New value : indicates the new IP Netmask address value.

➢ ***Procedure for changing the IP Netmask address:***

- Enter the new IP Netmask address value in the ***New value*** field using the ***0*** to ***9*** keys. You can move quickly through the digits using the ← or →keys.
- Confirm the new value by pressing ***OK***.
  - If the entered value is correct, the following information screen is displayed:

Info : Use reboot to apply changes Press OK or Esc to continue

Figure 25: IP NETMASK screen 2/3 - 1RU chassis LCD

It prompts the user to reboot the device for the new address values to be acknowledged. Press ***OK*** or ***ESC*** to go back to the previous screen.

- If the entered value is incorrect, the following warning screen is displayed:

Error : Invalid IP Gateway Press OK or Esc to continue

Figure 26: IP NETMASK screen 3/3 - 1RU chassis LCD

It warns the user that the entered value contains an error. Press ***OK*** or ***ESC*** to go back to the previous screen.

- Reboot the device. See section *REBOOT screen, page 24*.

2.8.3 - RECALL screen (chassis)

The *RECALL* screen is used to recall an overall configuration of the chassis. These configurations can be defined via the Web Interface or via the XMS 3500 and the Local Console. For more information, see the *Web Interface User Manual* or the *XMS 3500 User Manual* and *Servicing guide*. To display the *RECALL* screen, go to the *CHASSIS* screen, select ***Recall*** using the ← or → keys and press ***OK*.**

The following screen will be displayed if configurations have been stored:

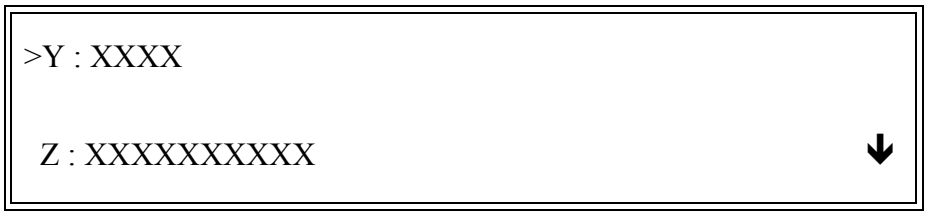

Figure 27: *RECALL* screen with stored configurations - 1RU chassis LCD

- ***Meaning of fields:***

Y : indicates the number of the overall configuration.

Note: function configurations (which are not overall configurations) are not displayed.

XXXX : indicates the name of configuration as defined on creation.

If no configurations have been stored in the chassis, the following screen will be displayed:

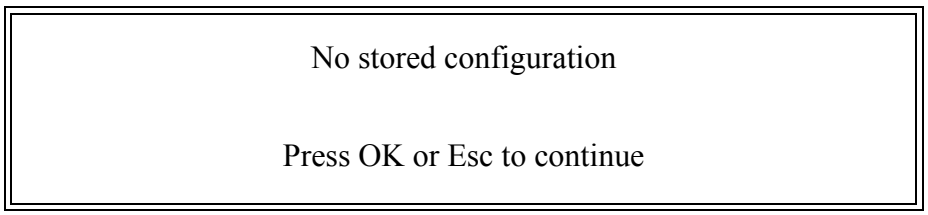

Figure 28: *RECALL* screen without stored configuration - 1RU chassis LCD

Press ***OK*** or ***ESC*** to go back to the previous screen.

➢ ***Procedure for recalling an overall configuration:***

- Select the configuration in the RECALL screen using the ↓ or ↑ keys.
- Confirm the selection by pressing ***OK***.
  - The following screen is displayed:

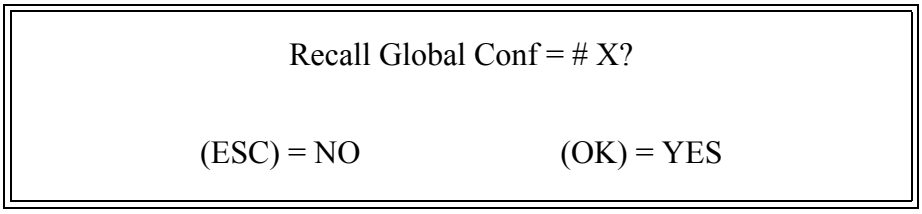

Figure 29: *RECALL* screen - selecting and confirming the configuration - 1RU chassis LCD

X indicates the number of the overall configuration.

- Press ***ESC*** to go back to the previous screen. Press ***OK*** to display the following information screen:

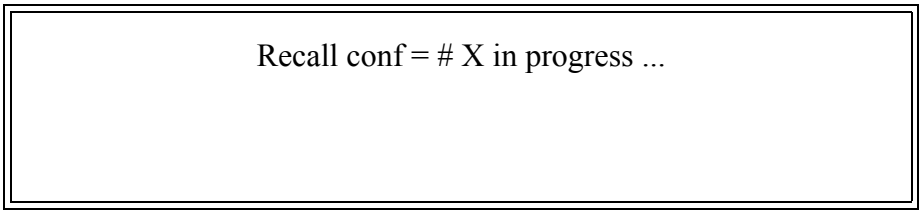

Figure 30: *RECALL* screen - recalling a configuration in progress - 1RU chassis LCD

Recall Conf XX in progress indicates that the configuration is in the process of being recalled.

- At the end of the operation:

- If the configuration has been successfully recalled, the following screen will be displayed:

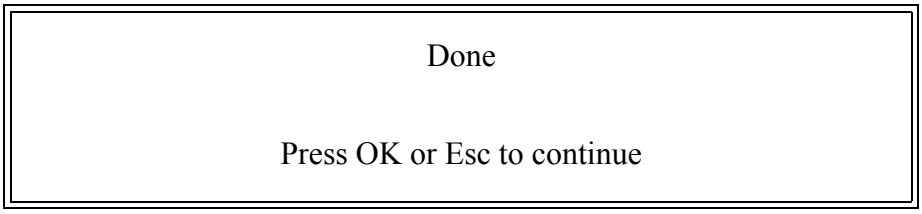

Figure 31: *RECALL* screen - recall successful - 1RU chassis LCD

Press ***OK*** or ***ESC*** to go back to the previous screen.

- If the configuration has not been successfully recalled, the following screen will be displayed:

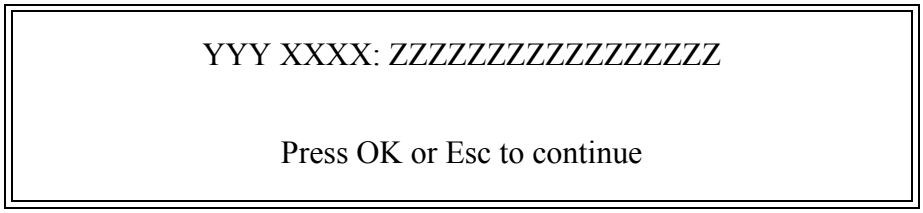

Figure 32: *RECALL* screen - recall unsuccessful - 1RU chassis LCD

- ***Meaning of fields:***

YYY : indicates ***Err*** or ***Warn***.

XXXX : indicates an error code.

ZZZZ : indicates an error message.

2.8.4 - REBOOT screen

The *Reboot* screen is used to reboot all device boards. To display this screen, go to the *CHASSIS* screen, select ***Reboot*** using the arrow keys and press ***OK.***

The following screen is displayed:

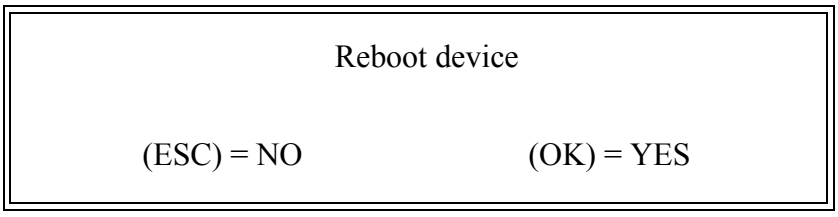

Figure 33: REBOOT screen 1/2 - 1RU chassis LCD

➢ ***Procedure for rebooting the device:***

Press ***OK*** to reboot all the boards in the chassis. If you do not wish to reboot the device, press ***ESC*** to quit this screen.
The following screen is displayed while the device reboots:

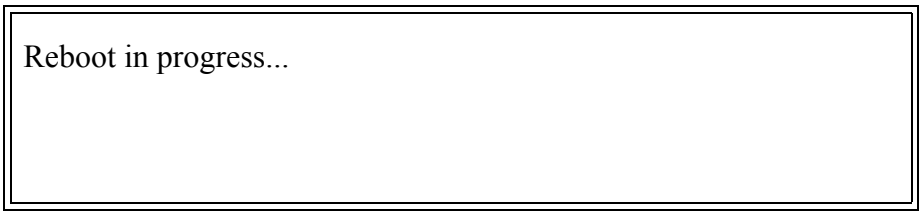

Figure 34: REBOOT screen 2/2 - 1RU chassis LCD

It is then replaced by the welcome screen described on *page 8*.

2.9 - [X - Y] function screen

To display the *[X - Y]* function screen, go to the *MAIN MENU* screen, select the function using the arrow keys and press ***OK***.

The following screen is displayed:

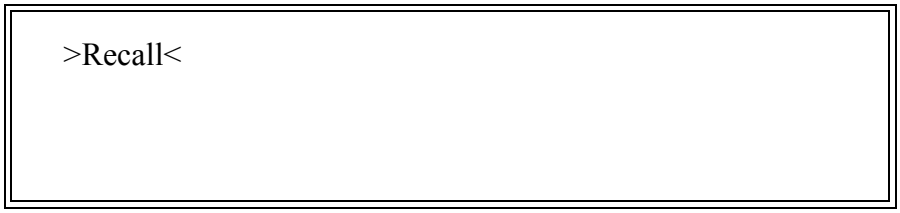

Figure 35: *{X - Y}* function creen - 1RU chassis LCD

Le seul choix proposé dans cette version permet :

Recall used to recall a predefined function configuration. The configuration needs to be defined beforehand using the Web Interface. To define a configuration, see the *Web Interface User Manual*.

2.9.1 - RECALL screen (function)

The *RECALL* screen is used to recall a function configuration. These configurations are predefined via the Web Interface or via the XMS 3500 and the Local Console. Three Encoder function configurations are predefined on chassis shipment, see the section below. To define configurations, see the *Web Interface User Manual* or the *XMS 3500 User Manual* and *Servicing guide*. To display the *RECALL* screen, press ***OK***.

The following screen will be displayed if configurations have been stored:

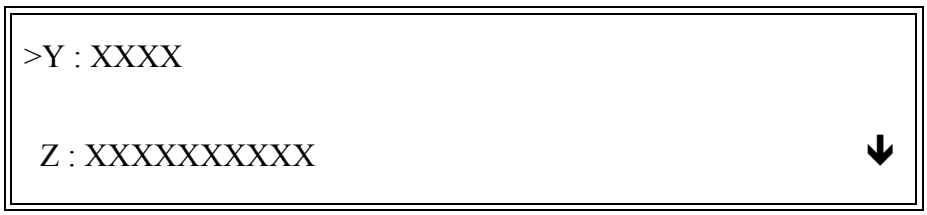

Figure 36: *RECALL* screen with stored configurations - 1RU chassis LCD

➢ ***Meaning of fields:***

Y : indicates the function configuration number.

Note: Overall (chassis) configurations are not displayed.

XXXX : indicates the configuration name as defined on creation.

If no configurations have been stored, the following screen will be displayed:

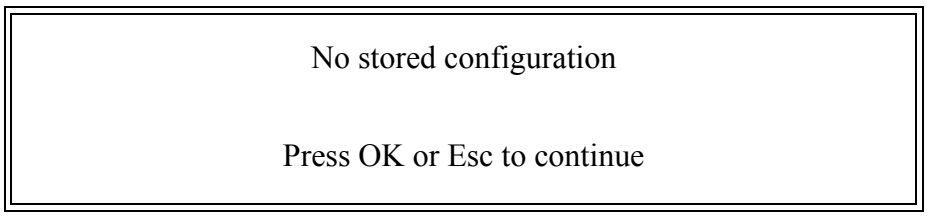

Figure 37: *RECALL* screen without stored configuration - 1RU chassis LCD

Press ***OK*** or ***ESC*** to go back to the previous screen.

➢ ***Procedure for recalling a function configuration:***

The procedure is the same as the one used to recall an overall configuration. See section *RECALL screen (chassis), page 22*.

2.9.2 - Predefined Encoder function configurations

Three Encoder configurations have been predefined in compliance with WBU-ISOG profiles. An Encoder featuring an SP ENC board can use one of the three configurations. An Encoder featuring a DP ENC board can use the *WBU-LBR* configuration.

	XMS File Name	WBU-LBR.mcf	WBU-HBR.mcf	WBU-MBR.mcf
	Web Browser File Name	WBU-LBR	WBU-HBR	WBU-MBR.mcf
Encoder	**Output Rate**	**8.448 Mb/s**	**21.502 Mb/s**	**11.666 Mb/s**
	Signaling Mode	DVB	DVB	DVB
	Generate TSDT	Yes	Yes	Yes
	Packet Size	188	188	188
	Station Name	WBU-profile	WBU-profile	WBU-profile
	TSDT repetition rate	10 s	10 s	10 s
Service	**Service ID**	256	256	256
	PMT PID	128	128	128
	PCR PID	256	256	256
	Type	TV Service	TV Service	TV Service
	Name	TV	TV	TV
	Provider Name	None	None	None
	Scrambling	No	No	No

Table 7 : Predefined configuration parameters

Video	**Profile**	**4:2:0 MP@ML**	**4:2:2@ML**	**4:2:2@ML**
	PID	256	256	256
	Bitrate	**7.3 Mb/s**	**19.8 Mb/s**	**9.0 Mb/s**
	Coding	Normal Delay	Normal Delay	Normal Delay
	Source	SDI	SDI	SDI
	Resolution	720x576	720x576	720x576
	GOP	12	12	12
	Aspect Ratio	4:3	4:3	4:3
Audio 1 & 2	**Input**	Digital	Digital	Digital
	PID audio 1	4112	4112	4112
	PID audio 2	4128	4128	4128
	Bit Rate	**256 kb/s**	**384 kb/s**	**384 kb/s**
	Mode	Stereo	Stereo	Stereo
	Coding	MPEG-1 Layer 2	MPEG-1 Layer 2	MPEG-1 Layer 2

Table 7 : Predefined configuration parameters

3 - APPENDIX

3.1 - Return your comments

All comments help us to improve our publications.

Do not hesitate to contact us:

Thomson Grass Valley
Integration and Networking Solutions
Département Marketing
Service Documentation
Rue du Clos-Courtel
35517 CESSON-SEVIGNE - FRANCE

Please give the manual reference.

Reader name:
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