Tome 3

Operating manual

System management- Operation administration- Installer data
M6501 IP PBX / M6540 IP PBX / NeXspan C-S-L

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CONNEXITY

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1. ABOUT THIS DOCUMENT

1.1 PURPOSE OF THIS DOCUMENT

This document describes the MMCs of the PBX from software release 3.2, with the exception of the MMCs relating to data transmission which are dealt with in a separate manual.

1.2 TARGET AUDIENCE OF THIS DOCUMENT

This document is intended for installation technicians who configure the PBX and implement the telephone features introduced by this software release.

1.3 SCOPE OF THIS DOCUMENT

This document applies to M6501 IP PBX, M6501L IP PBX, M6501R IP PBX, M6504 IP PBX, M6540 IP PBX, NeXspan C-S-L running software release 3.2 or later.

1.4 CONTENTS OF THIS DOCUMENT

This document describes all the means available to the operator for management of the M6501 IP PBX, M6501L IP PBX, M6501R IP PBX, M6504 IP PBX, M6540 IP PBX and NeXspan C-S-L from an operating terminal.

The set of Man Machine Commands (MMCs) described in this manual enable you to operate and manage M6501 IP PBX, M6501L IP PBX, M6501R IP PBX, M6504 IP PBX, M6540 IP PBX and NeXspan C-S-L.

This manual is composed of chapters ordered according to the tree structure of the MMCs as presented on the screen of the operating console.

1.5 TERMINOLOGY

1.5.1 TERMS AND EXPRESSIONS

Not applicable.

1.5.2 ABBREVIATIONS

F1 PBX range comprising M6501 L/R IP PBX

F2 PBX range comprising M6504 IP PBX, M6504 L IP PBX, M6540 IP PBX

F 5 Software application (Call Manager)

F6 PBX range comprising NeXspan C (XC), NeXspan S (XS) and NeXspan L (XL)

1.6 REFERENCE DOCUMENTS

The information contained in this manual refers to the following documents:

- M6501L/R IP PBX — Installation manual
- M6504 — Installation manual
- M6504L IP PBX — Installation manual
- M6540 IP PBX — Installation manual
- NeXspan range (XL/XS/XC) — Installation and Maintenance Manual
- Telephone sets manual

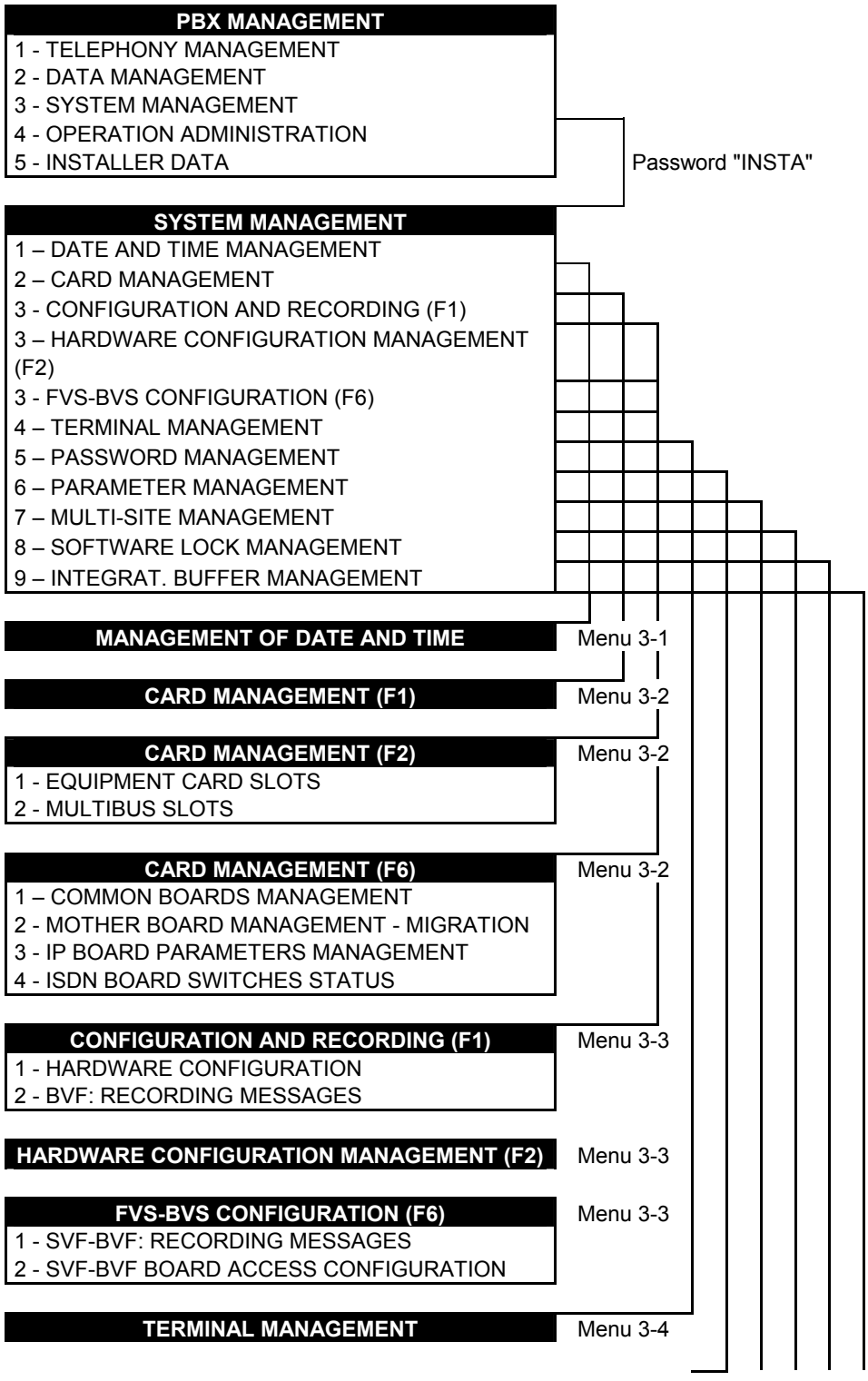
1.7 REMINDER CONCERNING THE LAW ON INFORMATION TECHNOLOGY

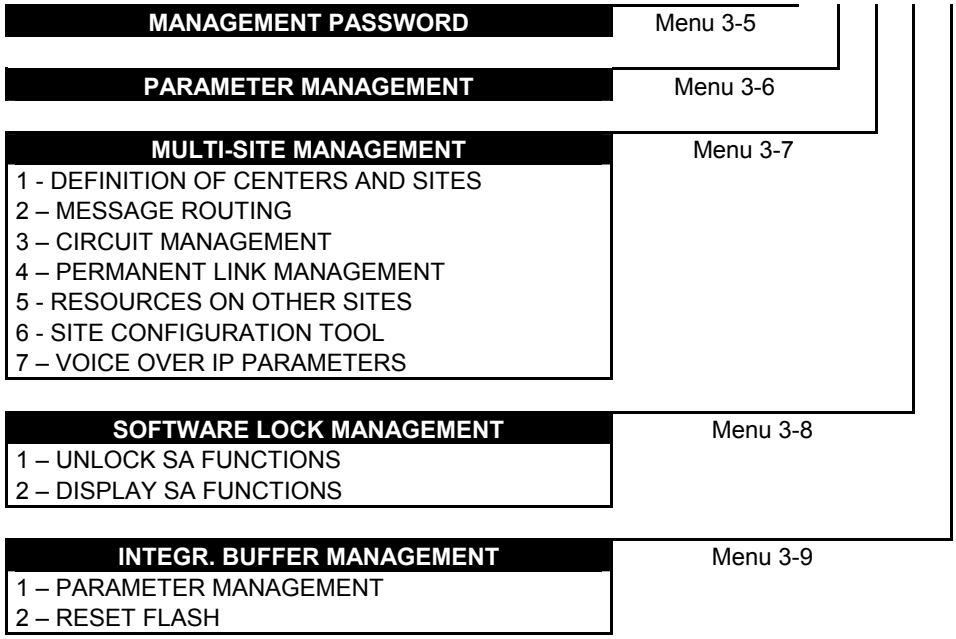
The user is reminded that commissioning PBXs in the workplace must comply with the recommendations of the IT law in force.

The user's attention is also drawn to any clauses applicable in laws relating to the confidentiality of calls transmitted by means of telecommunications.

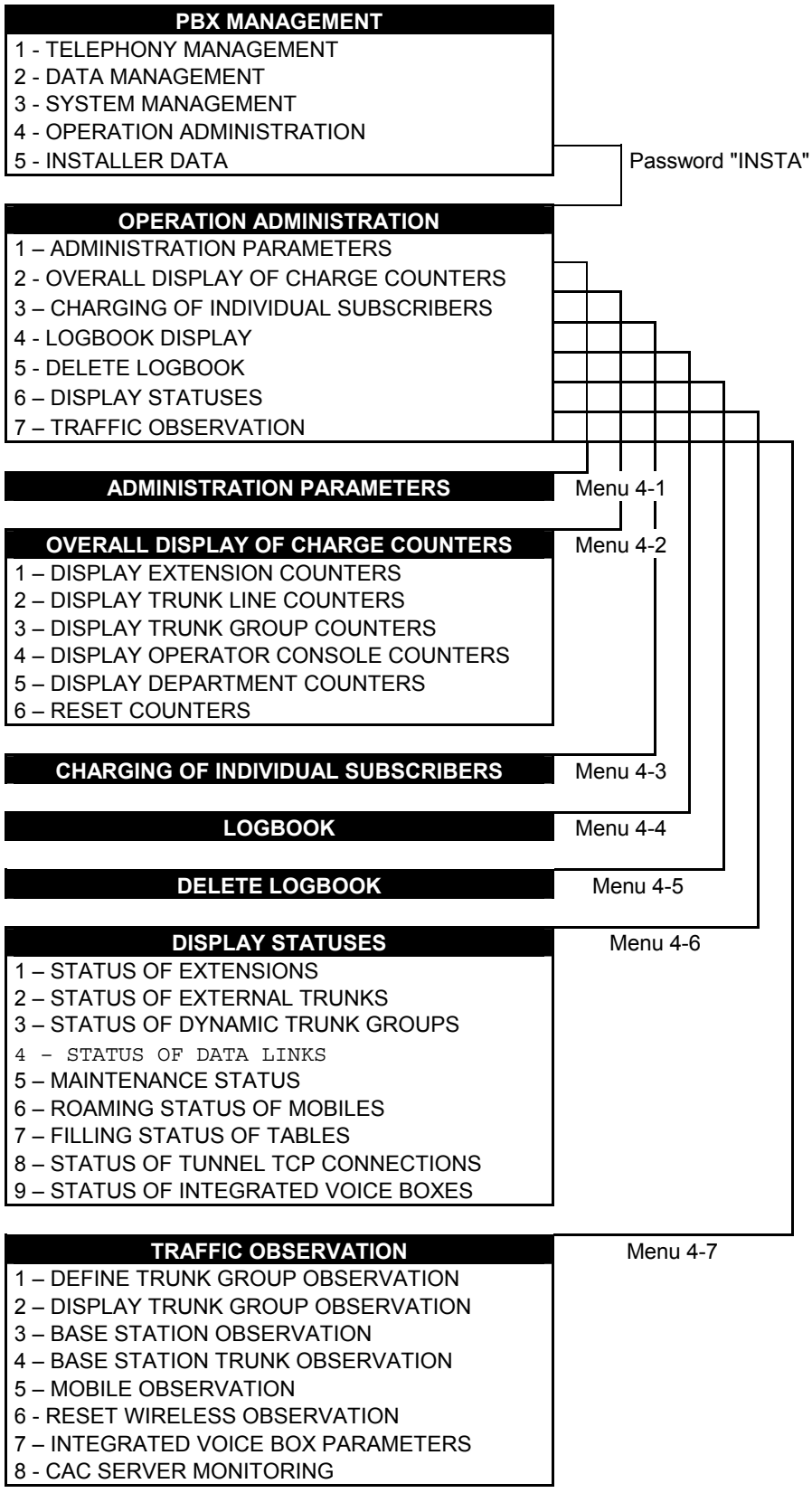
2. MENUS

2.1 SYSTEM MANAGEMENT MENU

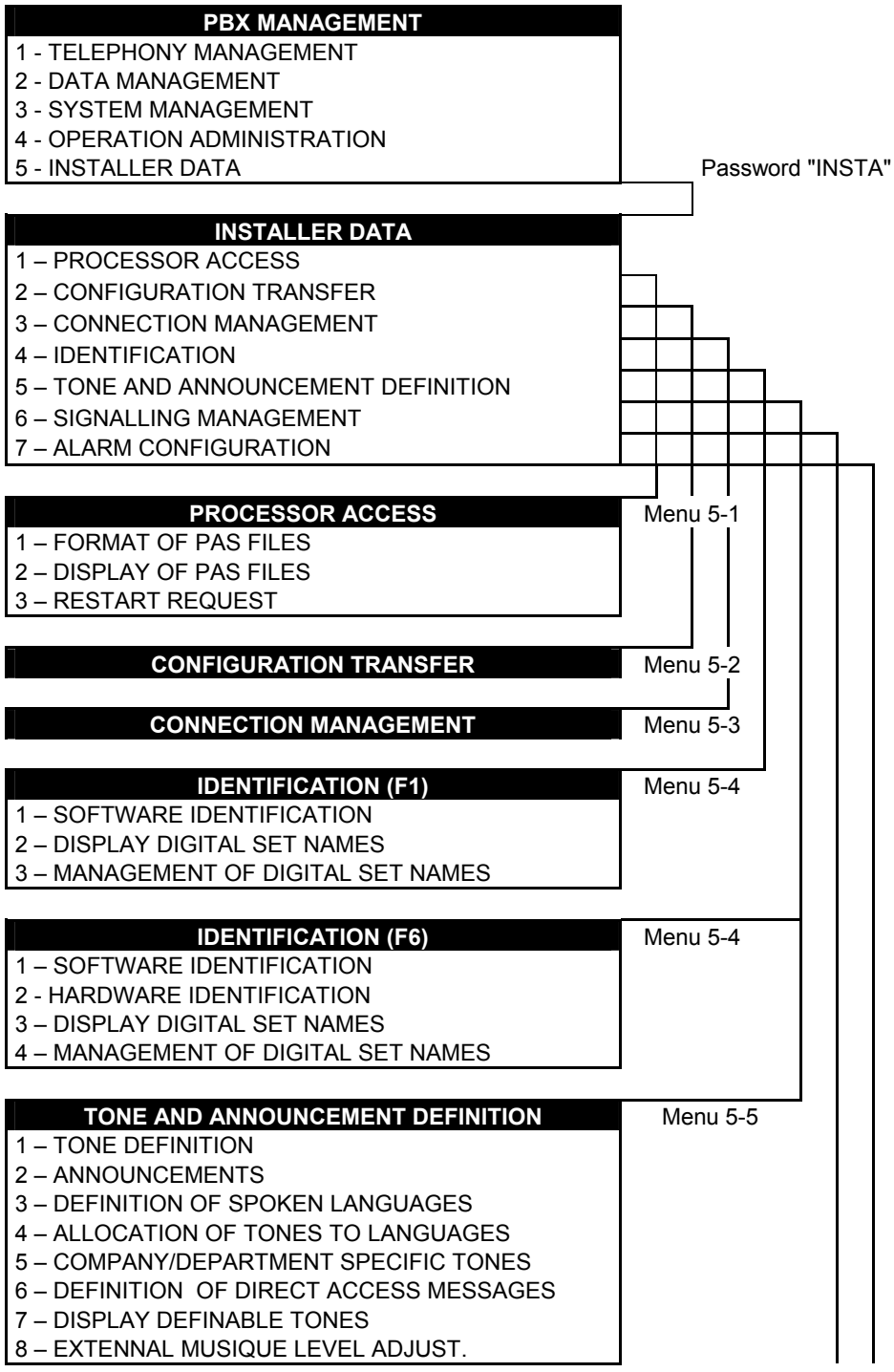


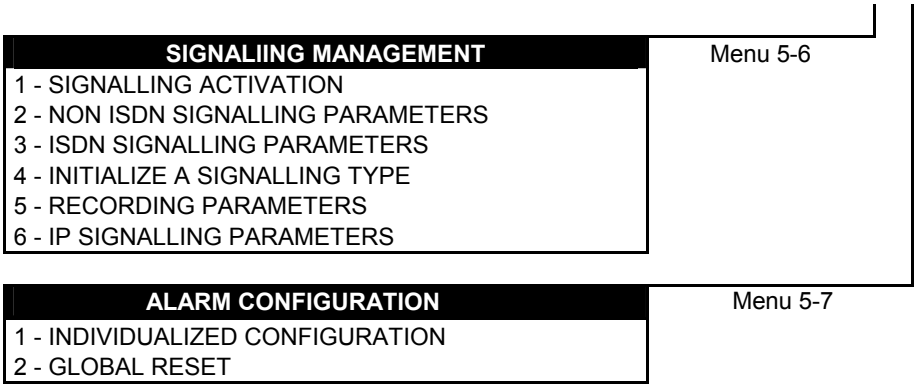


2.2 OPERATION ADMINISTRATION MENU



2.3 INSTALLER DATA MENU





2.4 DATA MANAGEMENT (MENU 2)

Since the data management functions are of great importance, they are not described in this manual, and are dealt with in a separate manual (reference PS8720ENJAA01).

3. SYSTEM MANAGEMENT (MENU 3)

```
SYSTEM MANAGEMENT

        1   DATE AND TIME MANAGEMENT
        2   CARD MANAGEMENT
        3   CONFIGURATION AND RECORDING
        4   TERMINAL MANAGEMENT
        5   MANAGEMENT PASSWORD
        6   PARAMETER MANAGEMENT
        7   MULTI-SITE MANAGEMENT
        8   SOFTWARE LOCK MANAGEMENT
        9   INTEGR. BUFFER MANAGEMENT

        ENTER YOUR CHOICE                    .

        ---------------------------------------------
```

Figure 1: Menu 3 (System management - F1)

```
SYSTEM MANAGEMENT

        1 DATE AND TIME MANAGEMENT
        2 CARD MANAGEMENT
        3.SVF-BVF CONFIGURATION
        4 TERMINAL MANAGEMENT
        5 PASSWORD MANAGEMENT
        6 PARAMETER MANAGEMENT
        7 MULTI-SITE MANAGEMENT
        8 SOFTWARE LOCK MANAGEMENT
        9 INTEGRAT. BUFFER MANAGEMENT

        ENTER YOUR CHOICE                    .

        ---------------------------------------
```

Figure 2: Menu 3 (System management - F6)

☞ For the Call Manager (F5): Menu 3 (System management) levels 3 (Configuration and recording),
4 (Terminal management), and
9 (Integr. buffer management) are not available.

3.1 DATE AND TIME MANAGEMENT (MENU 3-1)

☞ For the Call Manager (F5): Menu 3-1 (Date and time management).

3.1.1 DATE AND TIME DEFINITION

```
MANAGEMENT OF DATE AND TIME

     PRESENT TIME AND DATE
     - TIME (format hh mm ss)            15 51 46
     - DATE  (format dd mm yyyy)       30 06 2003

     NEXT PROGRAMMED TIME CHANGE               NO

     ------------------------------------------------------
```

Figure 3: Time and date management

TIME (FORMAT HH MM SS)

Enter the hour (hh), minutes (mm) and seconds (ss) using 2 digits for each value.

DATE (FORMAT DD MM YYYY)

Enter the day (dd) and month (mm), using 2 digits for each value, and the year (yyyy), using 4 digits.

NEXT PROGRAMMED TIME CHANGE

NO **YES**

This menu is used to switch to day light-saving time or to local standard time on the requested date: this avoids having to carry out these changes on the customer site on the day in question.

When you select this option, 3 other fields are displayed (see the section below).

Note: *In this release, the customer can make the change himself using the interactive menu on an attendant console or a digital set declared as a maintenance set.*

3.1.2 PROGRAMMING A CHANGE OF TIME

```
MANAGEMENT OF DATE AND TIME

     PRESENT TIME AND DATE
     - TIME (format hh mm ss)            15 53 14
     - DATE  (format dd mm yyyy)         30 06 2003

     NEXT PROGRAMMED TIME CHANGE         YES
     - on (date format dd mm)            .....
     - At (time format hh mm)            .....
     - IT WILL BE (time format hh mm)    .....

     ------------------------------------------------------
```

Figure 4: Date and time management (continued)

ON (DATE FORMAT DD MM)

Enter the date of the change: the day (dd) and month (mm), using 2 digits for each value.

AT (TIME FORMAT HH MM)

Enter the time of the change: the hour (hh) and minutes (mm), using 2 digits for each value.

IT WILL BE (TIME FORMAT HH MM)

Enter the desired time for the change: the hour (hh) and minutes (mm), using 2 digits for each value.

Note: *The date and time can be updated on an attendant console or on a 520 or 640 digital set declared as a maintenance set in its extension characteristics. In menu 1-7-2 (Miscellaneous Parameters), select YES for date and time management.*

Programming on telephone sets is as follows:

FUNCT. → SERVER → MORE → SYSTEM MANAGEMENT → ACCESS → DATE and TIME.

The date and time are updated on the sets after any operation (Example: off-hook/on-hook), after passing 8 p.m. or midnight, by unplugging or plugging in the sets following an automatic reset.

3.2 CARD MANAGEMENT (MENU 3-2)

☞ For the Call Manager (F5): Menu 3-2 (Card management).

3.2.1 CARD TYPE AND STATUS

Depending on the system installed (M6501L/R IP PBX, XL, XS, XC M6504/M6540 IP PBX), a screen which displays the various cards installed on the PBX appears: the card type and status are displayed.

> **Note:** *Menu 3-2 (Card management) proposes 4 sub-menus for the X range. To declare a card in an XL/XS/XC, select menu 3-2-1 (see section 3-2-5) .*

TYPE

This field indicates the type of card in the specified location when the PBX is powered on or on TOTAL RESET.

STATUS

This field indicates the card status:

IN SERVICE:	Card being used in the PBX.
DISABLED:	Card disabled because of a change being made.
NOT EQUIP.:	Card absent from the system or used by an MMC to replace one card with another of a different type (for example, replacing an analogue card with a digital card).
FAULTY:	Card previously in service and has been removed from the system.
NET ALARM:	LSB status for NETWORK cards (in particular PTx/PVI) which indicates network disconnection (IP, ISDN, etc.).

3.2.2 PROCEDURE FOR INSTALLING A CARD

Warning:

- Before disabling a card, all the equipment interfaces on that card must first be disabled.
- A card which supports an attendant console, a night console trunk group declared in a trunk group cannot be changed to the status NOT EQUIP. This equipment must be deleted beforehand.
- If no network link is connected to the PTx card, no TCP gateway link can be enabled.

IMPORTANT: *Always switch off your device before installing or uninstalling a card, unless it is an LA16X or LN16X card in an XL cabinet (F6).*

3.2.2.1 F1/F2

1. Set all the equipment interfaces on the card out of service (DISABLED).
2. Delete all the directory numbers assigned to the equipment interfaces on the card in menu 1-1-1 (Extension characteristics).
3. Change the status of the carte from **In service** to **Not equip.**
4. Power off the PBX (Switch on the face plate of the power supply module) in the main cabinet or the expansion cabinet.
5. Remove the card from the PBX.
6. Insert the new card.
7. Power on the PBX (Switch on the face plate of the power supply module) in the main cabinet or the expansion cabinet.
8. Select the card type and validate the status **In service** (wait until the download is complete).
9. If you are installing a subscriber card, redefine the directory numbers in menu 1-1-1 (Extensions characteristics).

Note: *Changing the status of the card from **In service** to **Not equip.** destroys all the links previously created. For a PT2 card to keep the links created when changing from x channels to y channels, change the status of the card from In service to Disabled (instead of Not equip.).*

3.2.2.2 F6

Replacing an "old generation" card with an "old generation" card:

1. Set all the equipment interfaces on the card out of service (DISABLED).
2. Delete all the directory numbers assigned to the equipment interfaces on the card in menu 1-1-1 (Extension characteristics).
3. Change the status of the carte from **In service** to **Not equip.**
4. Power off the PBX (the main cabinet and the expansion cabinet(s)).
5. If it is an XS, open the cabinet.

> **Note:** *For further information on installing and replacing a card in an XL, XS or XC cabinet, refer to "X-range Installation and Maintenance Guide".*

6. Remove the card from the PBX.
7. Insert the new card.
8. If it is an XS, close the cabinet.
9. Power on the PBX again (the main cabinet and the expansion cabinet(s).
10. Select the card type and validate the status **In service** (wait until the download is complete).
11. If you are installing a subscriber card, redefine the directory numbers in menu 1-1-1 (Extensions characteristics).

Replacing an "old generation" card with a "new generation" card (LA16X, LN16X):

1. Change the (LA8, LN8) card status from In service to Disabled.
2. Power off the PBX (the main cabinet and the expansion cabinet(s)).
3. If it is an XS, open the cabinet.

> **Note:** *For further information on installing and replacing a card in an XL, XS or XC cabinet, refer to "X-range Installation and Maintenance Guide".*

4. Remove the card from the PBX.
5. Insert the new card.

> **Note:** *In an XL cabinet, you can hot plug or unplug an LA16X or LN16X card. For further information on an XL, XS or XC cabinet, refer to "X-range Installation and Maintenance Guide".*

6. If it is an XS, close the cabinet.
7. Power on the PBX again (the main cabinet and the expansion cabinet).
8. Select card type and confirm the status In service.
9. Define all the directory numbers for the additional equipment interfaces on the card in menu 1-1-1 (Extension characteristics).

3.2.3 M6501L/R IP PBX CARDS

The M6501L has two cabinets: the main cabinet (0) and the expansion cabinet (1).

The slot number is therefore preceded by the cabinet number.

Example: Card 0-2 (second card of type 8 MIXD EXT. in cabinet 0)

```
CARD MANAGEMENT
                    CARD 0-0  : TYPE              TO TO ISDN
                    CARD 0-1  : TYPE              LR4 4 ANAL TK.
                              :                   ..........
                    CARD 0-2  : TYPE              8 MIXD EXT
                              :                   ..........
                    CARD 0-3  : TYPE                     CA1
                              : IN SERVICE        ..........
                    CARD 0-4  : TYPE              8 DIG EXT.
                              : IN SERVICE        ..........
                    CARD 0-5  : TYPE              ..........

                    CARD 1-0  : TYPE              ..........

                    CARD 1-1  : TYPE              ..........

                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 5: Card management (M6501L/R)

```
CARD MANAGEMENT


                    CARD 1-2  : TYPE              ..........

                    CARD 1-3  : TYPE              ..........

                    CARD 1-4  : TYPE              ..........

                    CARD 1-5  : TYPE              ..........

                    CARD 1-6  : TYPE              ..........

                    CARD 1-7  : TYPE              ..........


                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 6: Card management (M6501L/R) (continued)

When the system is powered on, the cards which do not have a processor, and which are installed in the PBX, are identified and displayed automatically. The cards which have a processor, such as CA1, LS1, CP1, CS1, are signalled as being in download status.

Slot 0-7 is used for the digital extensions of the OCT4 card.

Slots 2-0 to 3-7 are used on the M6501L IP PBX (double cabinet).

If the equipment interface has LD4 or LT2 cards, these must be put in service using this menu. The LT2 card is fitted for T2 or S2 (PRI).

The LS2 or LT2 card can only be installed in slot 04 or 05 (and 00 and 01 for 4 T2). You can therefore use the LS2 card in two ways:

- ISDN:T2 Signalling - (telephone mode)
- QSIG signalling - (multi-site links)

Example:

You can use an LS2 card for ISDN:T2 in slot 5 and another LS2 card for QSIG signalling in slot 04.

CAUTION: *An LT2 or LS2 card placed in eq1 requires a TMOCT4 card.*

CARD (CABINET NUMBER – SLOT NUMBER): TYPE

•••••••••	Use the terminal space bar to select a card type.
4 AB. ANAL.	LA4 card for 4 analogue extensions.
4 AB. BOTHWAY	LM4 card for 4 mixed extensions.
4 AB. COMMON	LN4 card for 4 digital extensions.
8 AB. ANAL.	LA8 card for 8 analogue extensions.
8 AB. BOTHWAY	LM8 card for 8 mixed extensions.
8 AB. COMMON	LN8 card for 8 digital extensions.
2 ANAL TK	LR1 card with 2 analogue trunk line equipment interfaces.
4 ANAL TK	LR4 card with 4 analogue trunk line equipment interfaces.
ISDN 2S0	LS1 card, 2 S0 equipment interfaces configuration.
ISDN T0-S0	LS1 card, 1 T0 + 1 S0 equipment interface configuration.
ISDN 2T0	LS1 card, 2 T0 equipment interfaces configuration.
LD4	T0/S0 card for 2- or 4-channel radio base stations.
TIE LINE	IA1/LI1 card for 2- or 4-wire tie-line equipment interfaces.
CA1	Card for 4 V24 asynchronous links.
CS1	Card for 2 X25 asynchronous links.
CP1	Packet circuit coupler card with two equipment interfaces.
LB4	Card with 4 CT2 radio base station equipment interfaces.
LS2	LS2 card with ISDN T2 (PRI) and QSIG signalling.
LT2	Card fitted for S2, T2 (PRI), PCM or reduced.
CC1	Card with synchronous announcements.
BVF	Card with IVB and synchronous announcements.
PTx	PTx card which manages links (maximum 16) and carries out gateway functions (TCP/IP-X25) and tunnelling (X25 over IP). CAUTION: No PTx card can be enabled unless the network cable is connected.

3.2.4 M6504/M6540 CARDS

```
CARD MANAGEMENT



                    1 EQUIPMENT CARD SLOTS

                    2 MULTIBUS CARD SLOTS



                    ENTER YOUR CHOICE                    1


                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 7: Card management (M6504/M6540)

3.2.4.1 EQUIPMENT CARD SLOTS

The M6504/M6540 has two cabinets: the main cabinet (0) and the expansion cabinet (1).

The slot number is therefore preceded by the cabinet number.

Example: Card 0-2 (second card of type PCM LRN-2 in cabinet 0).

CABINET 0

Main cabinet with an FP04PD back plane (TELEPHONE + DATA).

```
"EQUIPMENT" CARD MANAGEMENT
                    CARD 0-01  : TYPE           ISDN 4TO-4SO
                               : IN SERVICE       .........
                    CARD 0-02  : TYPE             LRN-2 PCM
                               : IN SERVICE       .........
                    CARD 0-03  : TYPE            ..........

                    CARD 0-04  : TYPE        16_DIGITAL EXT.
                               : IN SERVICE       .........
                    CARD 0-05  : TYPE            ..........

                    CARD 0-06  : TYPE        8 AN/4 DIG/4 TK
                               : IN SERVICE       .........
                    CARD 0-07  : TYPE         16_ANALOG EXT.
                               : IN SERVICE       .........
                    CARD 0-08  : TYPE            ..........

                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 8: "Equipment" card management (M6504/M6540)

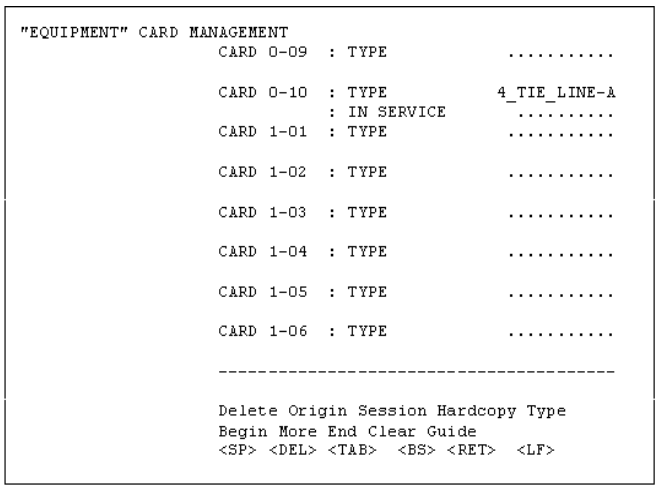


Figure 9: "Equipment" card management (M6504/M6540) (continued)

CABINET 1

Expansion cabinet with an FP04MD (TELEPHONE + DATA) or a FP04ER back plan (TELEPHONE only).

For card management in the system, the main cabinet back plane (FP04MD) is divided in two:

- EQUIPMENT side for the EQT card type. (example: LRN or LAE type cards),
- MULTIBUS side for CLX card type (*example:* ADP (T2) or ADB (T0/S0) type cards.

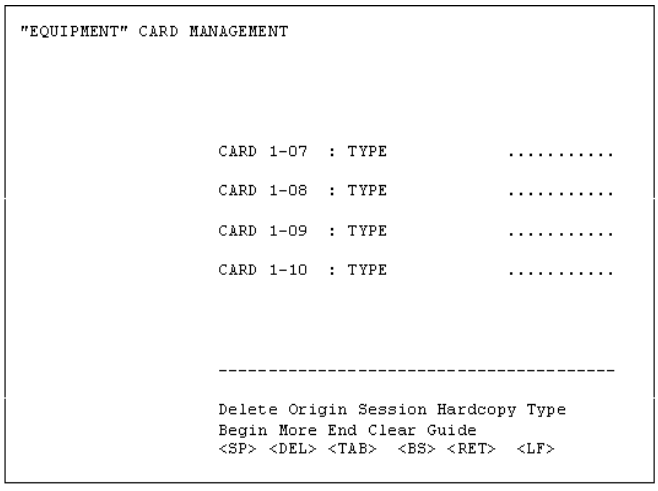


Figure 10: "Equipment" card management (M6504/M6540) (continued)

CARD TYPE ON TELEPHONE BUS SIDE

CARD X-XX: TYPE

•••••••••	Use the terminal space bar to select a card type.
LRN – 1 PCM	LRN card with 2 PCM (64 TSs), in 1 PCM (PCM0) configuration.
LRN – 2 PCM	LRN card with 2 PCM (64 TSs), in 2 PCM (PCM0-PCM1) configuration.
16 AB. ANAL.	LAB card FOR 16 Z interface analogueue extensions.
16 AB. COMMON	LAI card for 16 I interface digital extensions.
16 AB. NUM + DATA	LAN.D card with 16 digital extensions (telephone + data).
32 AB. ANAL.	LAE card for 32 Z interface analogue extensions.
32 AB. COMMON	LAJ card for 32 I interface digital extensions.
ISDN 8T0	LAS card, 8 T0 equipment interfaces configuration.
ISDN 6T0 - 2S0	LAS card, 6 T0 + 2 S0 equipment interfaces configuration.
ISDN 4T0 - 4S0	LAS card, 4 T0 +4 S0 equipment interfaces configuration.
ISDN 2T0 - 6S0	LAS card, 2 T0 +6 S0 equipment interfaces configuration.
ISDN 8S0	LAS card, 8 S0 equipment interfaces configuration.
8 AN / 4 DIG / 4 TK	LAR card with 8 analogue extensions + 4 digital extensions + 4 analogue trunk line equipment interfaces.
8 ANAL. TK.LRA/LRD	LRD or LRA card with 8 analogue trunk line equipment interfaces.
8 ANAL.TK.LRB	LRB or LRA card with 8 analogue trunk line equipment interfaces.
4 TIE LINE-A	LIA card with four 2-wire tie-line equipment interfaces.
4 TIE LINE-B	LIB card with four 2- or 4-wire tie-line equipment interfaces, and voice frequency signalling.
4 TIE LINE-C	LIC card with four 2- or 4-wire tie-line equipment interfaces, and E&M signalling.
4 TIE LINE-D	LID card, specific AVS 2000 application.
8 TIE LINE-E	LIE card with eight 2- or 4-wire tie-line equipment interfaces, and E&M signalling.
16 RADIO BASES	LAC card, used to connect 16 CT2 wireless base stations.
CONFER 1 PCM	CCB card Used to connect digital sets for the multi-conference application.
CONFER 2 PCM	CCB card where one PCM used to connect a digital tape recorder and a second PCM is used to connect digital sets for multi-conference application.
CCA 16 ANNOUNCEMENT	CCA card with spoken announcements and conference circuits.
CCS 1 PCM	CCS card with synchronised messages, in 1 PCM configuration.
CCS 2 PCM	CCS card with synchronised messages, in 2 PCM configuration.

Note: *The LRN 1 or 2 PCM field only appears for card slots 01 and 02 in the main cabinet.*

Reminder: *The LAS card is used to connect 8 BRIs (type T0 or S0) to ISDN terminals (8 interfaces, each with 2 B channels (64 kb/s) + 1 D channel (16 kb/s).*

For LAS card operation, an IFS link must be declared (+ LAS - CLF wire plugged in): see "Configuring "IFS" links".

CABINET 2

Cabinet with an FP04E back plane (TELEPHONE).

CARD TYPE ON TELEPHONE BUS SIDE

CARDS 01 TO 16: TYPE

• • • • • • • • •	Use the terminal space bar to select a card type.
16 ANALOG EXT.	LAB card with 16 Z interface analogue extensions.
16 DIGITAL EXT.	LAI card with 16 I interface digital extensions.
DIGITAL EXT.+TDD	LAN.D card with 16 I interface + data digital extensions.
ISDN 8S0	LAS card, 8 S0 equipment interfaces configuration.
8 ANAL. TK.LRA/LRD	LRD or LRA card with 8 analogue trunk line equipment interfaces.
4 TIE LINE–A	LIA card with 4 tie-line equipment interfaces and 50 Hz type or E&M signalling.
4 TIE LINE-B	LIB card with four 2- or 4-wire tie-line equipment interfaces and voice frequency signalling.
4 TIE LINE-C	LIC card with four 2- or 4-wire tie-line equipment interfaces and E&M signalling.
8 TIE LINE-E	LIE card with eight 2- or 4-wire tie-line equipment interfaces and 50 Hz, E&M or 2E&2M signalling.
8 AN / 4 DIG / 4 TK	LAR card with 8 Z interface analogue extensions, 4 I interface digital extensions, and 4 analogue trunk line equipment interfaces.

Note: *The telephone expansion cabinet 2 supports LAS 8S cards only.*

EQT positions 13 and 14 support LRD and LIX cards only.

Reminder: *The LAS card is used to connect 8 T0 BRIs to the ISDN (NUMERIS) or type S0 to ISDN terminals. 8 circuits each having 2 B channels (64 kbit/s) + 1 D channel (16 kbit/s).*

3.2.4.2 "MULTIBUS" SLOTS

The M6504/M6540 has two cabinets: the main cabinet (0) and the expansion cabinet (1).

The slot number is therefore preceded by the cabinet number.

Example: Card 0-2 (second card of type CCP in cabinet 0).

CABINET 0

Main cabinet with an FP04P back plane (TELEPHONE).

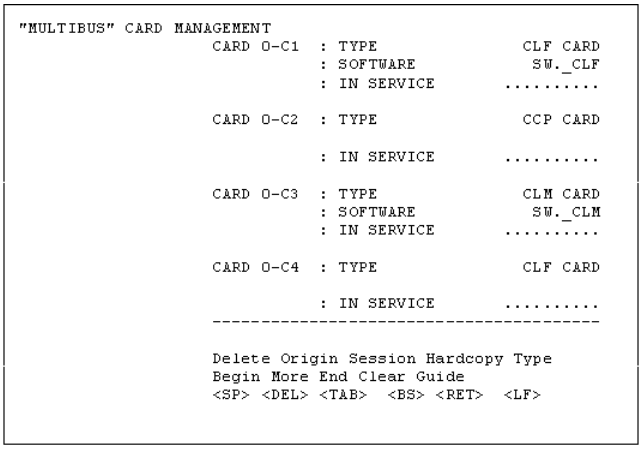


Figure 11: "Multibus" card management (M6504/6540)

CABINET 1

Expansion cabinet with an FP04PD mixed back plane (TELEPHONE + DATA).

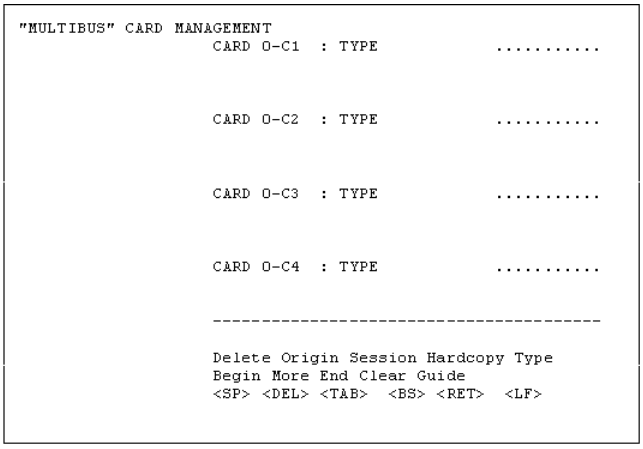


Figure 12: "Multibus" card management (M6504/6540) (continued)

CARD TYPE ON MULTIBUS SIDE

CARDS 0-C1 TO 0-C4: TYPE

• • • • • • • • •	Use the terminal space bar to select the CLx card type.
ISDN ADP T2	ADP card, in T2 configuration with 30 equipment interfaces, each with its own 64 kb/s B channel + (64 kb/s D channel).
ISDN ADP S2	ADP card, in S2 configuration with 1 equipment interfaces to which the thirty 64 kb/s channels + (64 kb/s D channel) are allocated.
ISDN ADQ T2	ADQ card with T2 interface for the public network.
ISDN ADQ S2	ADQ card with S2 interface for a terminal in the system.
ADQ1 T1	ADQ card with 1 T1 interface for the public network.
ADQ2 T1	ADQ card with 2 T1 interface for the public network.
ADQ1 PRI	ADQ card with PRI (Primary Rate Interface).
ADB 4T0-1S0	ADB card, 4 T0 + 1 S0 equipment interfaces configuration.
ADB 4T0-2S0	ADB card, 4 T0 + 2 S0 equipment interfaces configuration.
ADB 5T0	ADB card, 5 T0 equipment interfaces configuration.
ADB 5T0-1S0	ADB card, 5 T0 + 1 S0 equipment interfaces configuration.
ADB 6T0	ADB card, 6 T0 equipment interfaces configuration.
8ACCES LDS	LDSB card with 8 T0/S0 interfaces and 2/4 channel DECT base stations.
16ACCES LDS	LDSA card with 16 T0/S0 interfaces and 2- or 4 channel DECT base stations.
CLD CARD	CLD card with 16 V24 asynchronous interfaces, V28 electrical mode.
CLM CARD	CLM card with 16 V24 asynchronous interfaces, V28 electrical mode, (replaces the CLD card).
CLE CARD	CLE card with 4 asynchronous or synchronous line interfaces (HDLC, X25, SNA type), V11 electrical mode.
CLF CARD	CLF card with 4 serial asynchronous or synchronous line interfaces (HDLC, X25, SNA type), V10 electrical mode (compatible with V28).
CCP CARD	CCP card: packet circuit coupler with four 64 kb/s synchronous serial interfaces.
LAT CARD	LAT card with 4 Z interface analogue extensions + 4 I interface digital extensions + 4 asynchronous line interfaces (electrical mode) and 2 T0 equipment interfaces.
CRI CARD	CRI card which manages links (maximum 16), and carries out gateway functions (TCP/IP-X25) and tunnelling (X25 over IP).
PVI	PVI card, 1 Ethernet/IP interface and voice over IP gateway (VOIP4-8/16/32 daughter cards). CAUTION: No PVI card can be enabled unless the network cable is connected.

Note: *The CLA card is a reduced version of the CLM card, with 4 asynchronous V24 interfaces (channels: 0, 1, 14, 15). It is downloaded using the CLM field*

The **CCP** *card can only be fitted in cabinet 0.*

Reminder: *The ADB card is used to connect 6 T0 BRIs to the ISDN (NUMERIS), of which 2 interfaces can be converted to S0 for ISDN terminals. There are six interfaces, each with two 64 kb/s B channels and one 16 kb/s D channel. This card is put in service automatically.*

SOFTWARE

SW. CLD CARD	SW. CLE CARD	SW. CLM CARD	SW. CLF CARD

This field indicates the software to be downloaded according to the CLx card type selected on the Type field.

CAUTION: *There is no compatibility check between the software requested and the card to be downloaded.*

THIS FIELD MUST BE USED WITH CARE.

STATUS

OUT OF SERVICE	IN SERVICE	NOT EQUIP.	NET. ALARM

IN SERVICE	Status assigned automatically on Total Reset: this only applies to cards identified as ANALOG, DIGITAL, DIGITAL + DATA, ANALOG TK., ISDN T0 (ADB card) and ISDN T2 (ADP card). For the PCM LRN-1, PCM LRN- 2, TIE-LINE A, B, C, D, ISDN T0/S0 (LAS), T2/S2, or CLX cards, validate the status by pressing RETURN or ENVOI.
OUT OF SERVICE	This status is used to put a card temporarily out of service. The equipment interfaces connected are also put OUT OF SERVICE.
NOT EQUIP.	This status is important because it is used to replace one card with another of a different type (for example, replacing an analogue card with a digital one, etc.).
NET. ALARM	LSB status for NETWORK cards (in particular PVI) which indicates network disconnection (IP, ISDN, etc.).

PUTTING THE LAS CARD IN SERVICE

IMPORTANT: *Before putting the LAS card in service, you must first configure the IFS link (see below).*

Proceed as follows to put in service an LAS card (ISDN T0/S0):

1. Select card type.
2. Check the connection of the cable (IFS link) between the LAS card and a junction (00 to 03) on the CLF card.
3. Select the CLF card on the line: Card x-xx: Type
4. Set the CLF card **In service** and wait until the download is complete, then check the LED VC Temps réel ("Real Time") on the CLF card.
5. Go to the menu DATA MANAGEMENT to define the characteristics of the IFS link (LAS-CLF): see "Configuring "IFS" links".

3.2.4.3 CONFIGURING "IFS" LINKS

The IFS link must be configured before setting the LAS card in service (see the previous section).

When you enter your password, display menu 2-1-1-1 (Link selection).

```
LINK SELECTION



                    BY EQUIPMENT NUMBER                 0C101


                    BY DIRECTORY NUMBER               ........


                    BY GROUP                          ........


                    ----------------------------------------


                    Delete Guide Origin Session Hardcopy
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 13: Link selection

BY EQUIPMENT NUMBER

Enter a link name (CLF card) in this field, defined by the cabinet number (0 or 1), the card slot in the cabinet (C1 to C4), and the junction number (00 to 03) on the CLF card. When you validate this field, the following screen is displayed:

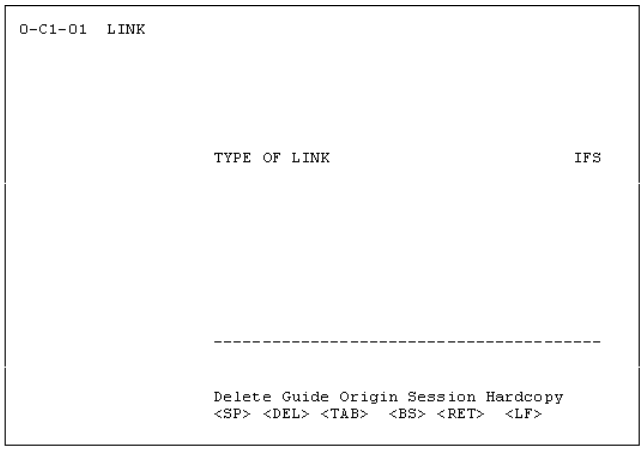


Figure 14: Link selection (continued)

LINK TYPE

In this field, select the link type **IFS**: The following screen is displayed:

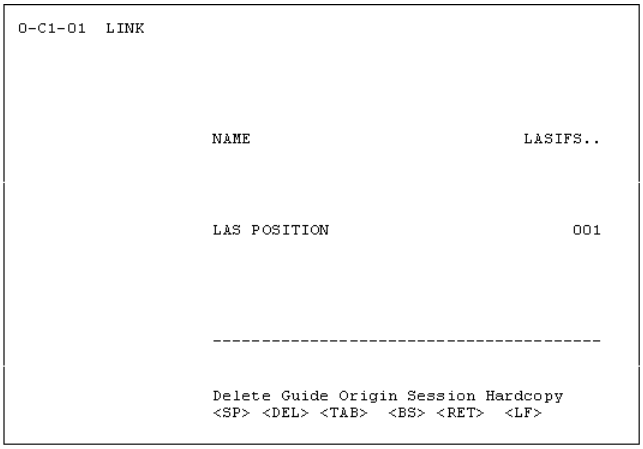


Figure 15: Link selection (continued)

NAME

Enter the name of the link: 8 characters maximum (for example: LASIFS).

LAS LOCATION (CABINET CARD)

In this field, enter the location of the LAS card (cabinet number and card slot in cabinet): the link is set service when the last parameter has been entered.

Go back to menu 3.2 (Card management) to put an ISDN T0/S0 type card in service.

3.2.5 XL/XS/XC CARDS

```
CARD MANAGEMENT

    1 COMMON BOARDS MANAGEMENT

    2 - MOTHER BOARD MANAGEMENT - MIGRATION

    3 IP BOARD PARAMETERS MANAGEMENT

    4 ISDN BOARD SWITCHES STATUS

    ENTER YOUR CHOICE                    .

    ----------------------------------------
```

Figure 16: Card management (XL, XS and XC)

Menu 3-2 (Card management) proposes the following 4 sub-menus for X range (XL, XS and XC):

- Common boards management (Menu 3-2-1)
  This menu is used to declare the cards in an XL/XS cabinet (card type and status).
- Mother board management – Migration (Menu 3-2-2)
  This menu is used to display device hardware and software configurations, and change from one device to another.
- IP board parameters management (Menu 3-2-3)
  This menu is used to modify the parameters for each PTx installed.
- ISDN board switches status (Menu 3-2-4)
  This menu shows the jumper status for each ISDN access.

3.2.5.1 COMMON BOARDS MANAGEMENT (MENU 3-2-1)

- **XL**

XL consists of one main cabinet and, if necessary, one or two expansion cabinets.

The equipment number is, therefore, preceded by the number of the cabinet in which it is located:

- 1 = main cabinet
- 2 = 1st expansion cabinet
- 3 = 2nd expansion cabinet

Example: Card 1-03 (card in slot 03 of the main cabinet)

each cabinet contains 14 slots numbered from 00 to 13, corresponding to the following physical positions:

UCT-L (RUCT-L)	
01	00
03	02
05	04
07	06
09	08
11	10
13	12

```
COMMON BOARDS MANAGEMENT


    CARD 1-00 : TYPE             LT2 ISDN T2
                : FAULTY     ..........
    CARD 1-01 : TYPE         32-CHANNEL PTx
                : IN SERVICE        ..........
    CARD 1-02 : TYPE             ...........

    CARD 1-03 : TYPE         08-CHANNEL PTx
                : NOT EQUIPPED      ..........
    CARD 1-04 : TYPE             ...........

    CARTD 1-05 : TYPE             ...........

    CARD 1-06 : TYPE        LN16X 16 DS.SUB.
                : IN SERVICE        ..........
    CARD 1-07 : TYPE       LA16X 16 ANAL.SUB
                : IN SERVICE        ..........
    ----------------------------------------
```

Figure 17: Common boards management (XL)

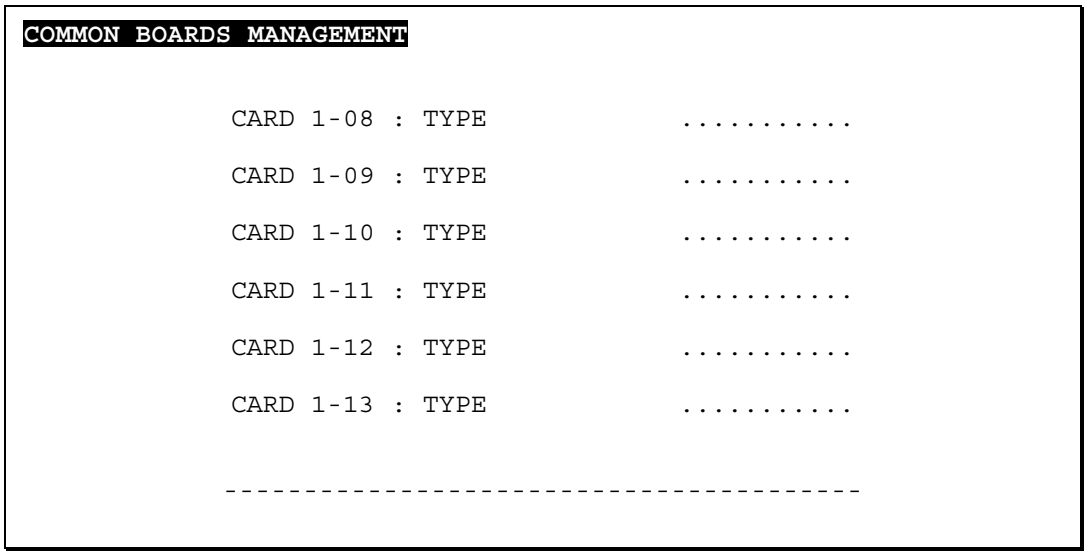


Figure 18: Common boards management (XL) (continued)

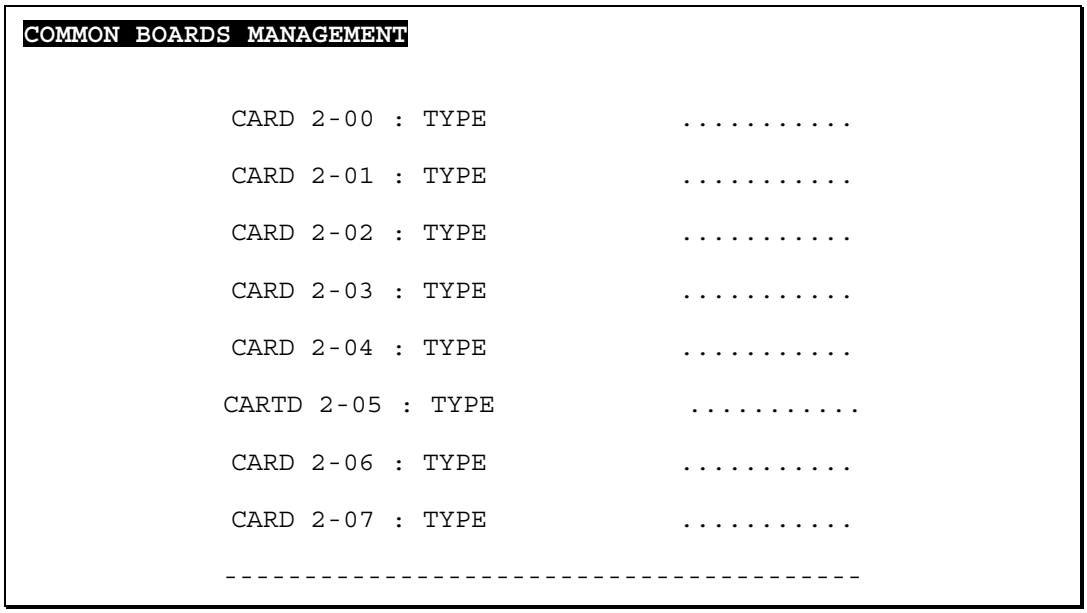


Figure 19: Common boards management (XL) (continued)

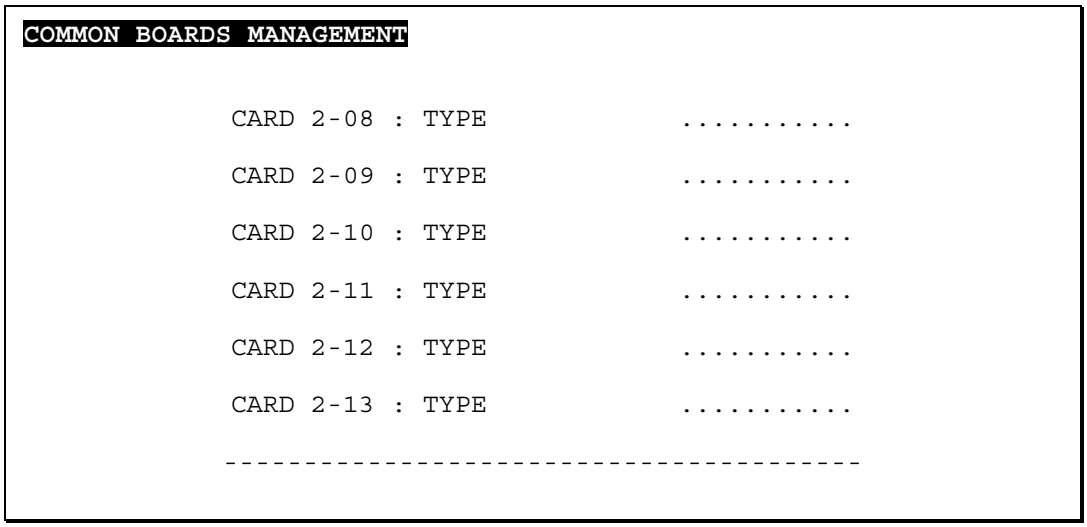


Figure 20: Common boards management (XL) (continued)

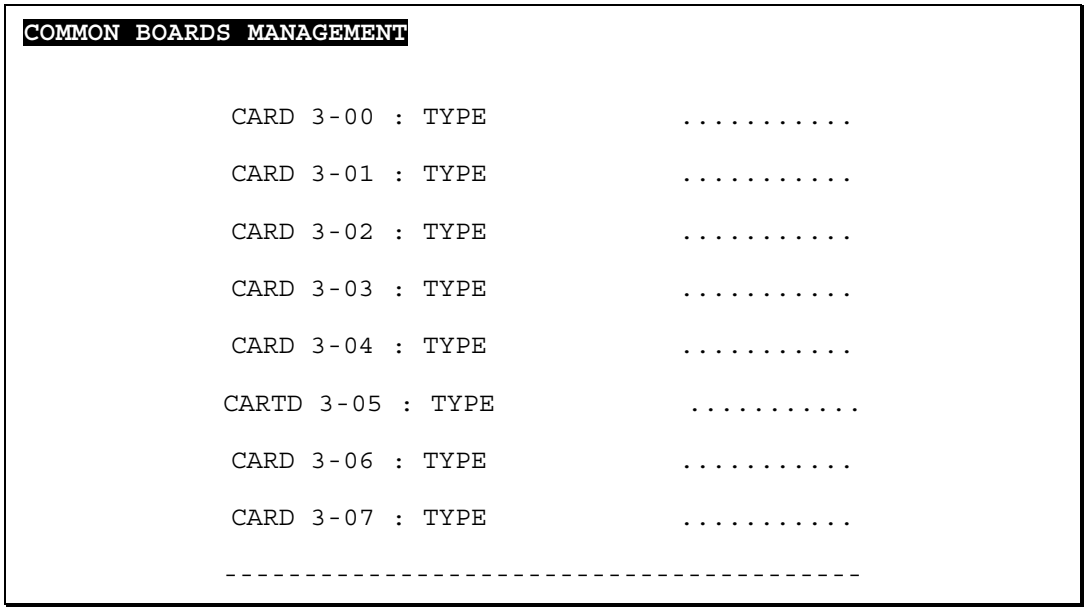


Figure 21: Common boards management (XL) (continued)

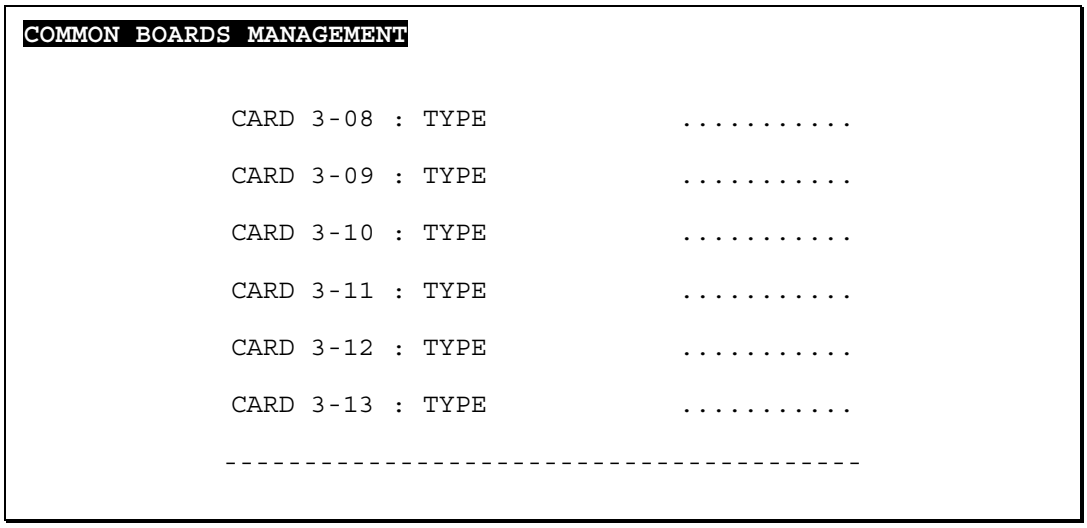


Figure 22: Common boards management (XL) (continued)

When the system is powered on, the cards which do not have a processor, and which are installed in the PBX, are identified and displayed automatically. The cards which have a processor, such as CA1, LS1, CP1, CS1, are signalled as being in download status.

- **XS**

XS consists of one main cabinet and possibly one expansion cabinet.

The equipment number is, therefore, preceded by the number of the cabinet in which it is located:

- 1 = main cabinet
- 2 = expansion cabinet

Example: Card 1-01 (card in slot 01 of the main cabinet)

Each cabinet contains 3 slots numbered from 00 to 02, corresponding to the following physical positions:

02	01	00
UCT-S (RUCT-S)		

```
COMMON BOARDS MANAGEMENT


    CARD 1-00 : TYPE                          .........

    CARD 1-01 : TYPE                    LN16X 16 DS.SUB
              : IN SERVICE                    .........
    CARD 1-02 : TYPE                        32-CHANNEL PTX
              : IN SERVICE                    .........

    CARD 2-00 : TYPE                          .........

    CARD 2-01 : TYPE                          .........

    CARD 2-02 : TYPE                          .........

    ------------------------------------------------
```

Figure 23: Card management (XS)

- **XC**

XC consists of one main cabinet. It cannot be fitted with expansion cards, the subscriber sockets and the T0/S0 interfaces are built into the CPU card.

Menu 3-2-1 "Common boards management" is, therefore, empty.

CARD (CABINET NUMBER – SLOT NUMBER): TYPE

•••••••••	Use the terminal space bar to select a card type.
LN8 8DG.EXT.	LN8 card for 8 digital extensions.
LN16X 16DS.SUB.	LN16 card for 16 digital extensions.
LM8 8MIXD. EXT.	LM8 card for 4 digital extensions and 4 analogue extensions.
LA8 8ANAL.EXT.	LA8 card for 8 analogue extensions.
LA16X 16ANAL.SUB	LA16X card for 16 analogue extensions.
LR4 4ANAL.TK.	LR4 card with 4 analogue trunk line equipment interfaces.
LR4A 4SUPPL.LR	LR4 card with 4 analogue trunk line equipment interfaces.
TIE LINE	LI1 card for 2- or 4-wire tie-line equipment interfaces.
CA1	Card for 4 V24 asynchronous links.
CS1	Card for 2 X25 asynchronous links.
CP1	Packet circuit coupler card with two equipment interfaces.
LT2 ISDN T2 (24tS)	LT2 card in T2 configuration.
REDUCED LT2	LT2 card in reduced configuration (limited to 16TS).
S2 ISDN LT2	LT2 card in S2 configuration.
PRI ISDN LT2 (24 ts)	LT2 card in PRI ISDN configuration
PCM LT2 (32it)	LT2 card in PCM configuration
T1 PCM LT2	LT2 card in T1 PCM configuration
LD4	LD4 card for T0/S0 access, 2- or 4-channel radio base stations.
00 CHANNEL PTx	PTx card which performs gateway (TCP/IP-X25) and tunnelling (X25 tun. over IP) functions. CAUTION: No PTx card can be enabled unless the network cable is connected.
08 CHANNEL PTx	PTx card which performs gateway (TCP/IP-X25), tunnelling (X25 tun. over IP) and 8 voice over IP circuit management functions. CAUTION: No PTx card can be enabled unless the network cable is connected.

16-CHANNEL PTx	16-channel PTx card which performs gateway (TCP/IP-X25), tunnelling (X25 tun. over IP) and 16 voice over IP circuit management functions. CAUTION: No PTx card can be enabled unless the network cable is connected.
32-CHANNEL PTx	32-channel PTx card which performs gateway (TCP/IP-X25), tunnelling (X25 tun. over IP) and 32 voice over IP circuit management functions. CAUTION: No PTx card can be enabled unless the network cable is connected.

3.2.5.2 MOTHER BOARD MANAGEMENT – MIGRATION (MENU 3-2-2)

This MMC is used to display device hardware and software configurations, and change from one device to another. The hardware view corresponds to the actual platform and cannot be modified. The software view corresponds to the database content and cannot be modified. In general, the hardware and software configurations are identical. They may vary in the following cases:

- if you add or remove an XS or XL expansion cabinet
- if you carry out a back-up / restore operation (for instance XS configuration back-up and restore on an XL)
- if you change from one device to another.

- **XL**

```
MOTHER BOARD MANAGEMENT - MIGRATION


    UCT: HARDWARE VIEW            SOFTWARE VIEW
    XL CONFIGURATION                    XL


    PTX   EN 0-04: IN SERVICE        ..........
    HSCX EN 0-05 : IN SERVICE      ..........
    BVF EN 0-06 : IN SERVICE      ..........

    CLASS SERVICE TYPE                      V23
    TMS VC5409     TYPE   5409:SUBSC.+SUBSC.
           STAT: IN SERVICE        ..........
    ----------------------------------------
```

Figure 24: XL hardware and software configurations – Migration (menu 3-2-2)

UCT: HARDWARE VIEW	SOFTWARE VIEW
XL CONFIGURATION Read-only field. Used to view the device hardware configuration (one XL-cabinet, two XXL-cabinet, three XXXL-cabinet configuration).	**XL** **XXL** **XXXL** Used to view the device software configuration (one XL-cabinet, two XXL-cabinet, three XXXL-cabinet configuration). You can modify this field in order to change from one device to another (add or remove one expansion cabinet).
PTX EN 0-04: STATUS **HSCX EN 0-05: STATUS** **MEVO EN 0-06: STATUS** Read-only field which indicates the position and status of virtual cards (IN SERVICE, DISABLED, FAULTY). *A virtual card has the same functions as an expansion card but is installed on the CPU card (HSCX = CP1).*	**IN SERVICE** **DISABLED** **……...** **IN SERVICE** Used to activate the virtual card in the PBX. **DISABLED** Used to deactivate the virtual card for replacement. **.....** Used to maintain the virtual card status.

CLASS SERVICE TYPE

Note: *This line is only displayed for a configuration using both set types.*

V23 **DTMF**

CLASS service allows analogue terminals to receive the following information about the current call: Caller number (if there is no call offering restriction) and date and time of call (only available in V23 mode). Select V23 for standard European class sets and DTMF for Danish class sets.

TMS VC5409: TYPE

5409 : EXTENSION | **5409 : SUBSC. + SOCOTEL** | **5409 : SUBSC. + R2** | **……..**

Select the right TMS type.

STAT: IN SERVICE

Field which indicates the TMS status.
The following transitions are possible:

IN SERVICE **NOT EQUIP.** **DISABLED** **……..**

- **XS**

```
MOTHER BOARD MANAGEMENT - MIGRATION

     UCT: hardware view                          software view
     XXS CONFIGURATION                           XXS
     DIG.  EN 0-00: IN SERVICE                   .........
     ANAL EN 0-01: IN SERVICE                    .........
     S/T0 EN 0-02: IN SERVICE                    .........
     T0   EN 0-03 : IN SERVICE                   .........
     PTX   EN 0-04: IN SERVICE                   .........
     HSCX EN 0-05: IN SERVICE                    .........
     BVF EN 0-06: IN SERVICE      .........

     DIGITAL SET: 8                                8
     ANALOG SET: 8                                 8
     ONLY T0 ACCESS : 2                            2

     CLASS SERVICE TYPE                      V23
     TMS VC5402        TYPE                  5402 : EXTENSION
           STAT: IN SERVICE                      .........
     ------------------------------------------------------
```

Figure 25: XS hardware and software configurations – Migration (menu 3-2-2)

UCT: HARDWARE VIEW	SOFTWARE VIEW
XXS CONFIGURATION Read-only field. Used to view the device configuration (one XS-cabinet or two XXS-cabinet configuration)	**XS XXS XL XXL XXXL GX-GLOBAL** Used to view the device software configuration (one XS-cabinet or two XXS-cabinet configuration). You can modify this field in order to change from one device to another (add or remove one expansion cabinet, change from an XS cabinet to an XL cabinet). *GX-GLOBAL is a software view used for XS => XL migration and to display the position of XS on the CPU card, as well as the common positions of XL. It is thus possible to request the transfer of the extensions located on the XS CPU card to a new location on the XL. Once the extensions are transferred, we recommend that you realign the software view and the hardware view.*
NUM DIG. EN 0-00: STATUS **ANAL EN 0-01: STATUS** **S/T0 EN 0-02: STATUS** **T0 EN 0-03: STATUS** **PTX EN 0-04: STATUS** **HSCX EN 0-05: STATUS** **BVF EN 0-06: STATUS** Read-only field which indicates the position and status of virtual cards (IN SERVICE, DISABLED, FAULTY). *A virtual card has the same functions as an expansion card but is installed on the CPU card (HSCX = CP1, S/T0 and T0 = LD4).*	**IN SERVICE DISABLED ……...** **IN SERVICE** Used to activate the virtual card in the PBX. **DISABLED** Used to deactivate the virtual card for replacement. **……...** Used to maintain the virtual card status.
DIGITAL SETS: 8 Indicates the number of digital sets on the CPU card.	**8** Indicates the number of digital sets using the software.

UCT: HARDWARE VIEW	SOFTWARE VIEW
ANALOGUE SETS: 8 Indicates the number of analogue sets on the CPU card.	**8** Indicates the number of analogue sets using the software.
ACCES UNIQUEMENT T0 : 2 Indicates the number of T0 accesses on the CPU card.	**2** Indicates the number of T0 accesses using the software.

CLASS SERVICE TYPE

Note: *This line is only displayed for a configuration using both set types.*

V23 **DTMF**

CLASS service allows analogue terminals to receive the following information about the current call: Caller number (if there is no call offering restriction) and date and time of call (only available in V23 mode). Select V23 for standard European class sets and DTMF for Danish class sets.

TMS VC5402: TYPE

5402 : EXTENSION **……..**

Select the right TMS type.

STAT: IN SERVICE

Field which indicates the TMS status.

The following transitions are possible:

IN SERVICE **NOT EQUIP.** **DISABLED** **……..**

- **XC**

```
MOTHER BOARD MANAGEMENT - MIGRATION

     UCT: hardware view                          software view
     XC CONFIGURATION                                  XC
     DIG.  EN 0-00: IN SERVICE                   .........
     ANAL EN 0-01: IN SERVICE                    .........
     S/T0 EN 0-02: IN SERVICE                    .........
     T0   EN 0-03: DISABLED                .........
     PTX   EN 0-04: IN SERVICE                   .........
     HSCX EN 0-05: IN SERVICE                    .........
     BVF EN 0-06: IN SERVICE      .........

     DIGITAL SET: 4                                 4
     ANALOG SET: 4                                  4
     ONLY T0 ACCESS : 0                                   0

     CLASS SERVICE TYPE                       V23
     TMS VC5402        TYPE                   5402 : EXTENSION
           STAT: IN SERVICE                      .........
     ---------------------------------------------------
```

Figure 26: XC hardware and software configurations – Migration (menu 3-2-2)

UCT: HARDWARE VIEW	SOFTWARE VIEW
XC CONFIGURATION Read-only field. Used to view the device configuration (one XC-cabinet configuration).	**XC XS XXS XL XXL XXXL GX-GLOBAL** Used to view the device software configuration (one XC-cabinet configuration). You can modify this field in order to change from one device to another (change from an XC cabinet to an XS cabinet). *GX-GLOBAL is a software view used for XC => XS or XC => XL migration and to display the position of XC on the CPU card, as well as the common positions of XS or XL. It is thus possible to request the transfer of the extensions located on the XC CPU card to a new location on the XS or XL. Once the extensions are transferred, we recommend that you realign the software view and the hardware view.*

NUM DIG. EN 0-00: STATUS **ANAL EN 0-01: STATUS** **S/T0 EN 0-02: STATUS** **T0 EN 0-03: STATUS** **PTX EN 0-04: STATUS** **HSCX EN 0-05: STATUS** **BVF EN 0-06: STATUS** Read-only field which indicates the position and status of virtual cards (IN SERVICE, DISABLED, FAULTY). *A virtual card has the same functions as an expansion card but is installed on the CPU card (HSCX = CP1, S/T0 = LD4).*	**IN SERVICE** **DISABLED** **……....** **IN SERVICE** Used to activate the virtual card in the PBX. **DISABLED** Used to deactivate the virtual card for replacement. **……....** Used to maintain the virtual card status.
DIGITAL SETS: 4 Indicates the number of digital sets on the CPU card.	**4** Indicates the number of digital sets using the software.
ANALOGUE SETS: 4 Indicates the number of analogue sets on the CPU card.	**4** Indicates the number of analogue sets using the software.
ONLY TO ACCESS T0 : 0 Indicates the number of T0 accesses on the CPU card.	**0** Indicates the number of T0 accesses using the software.

CLASS SERVICE TYPE

Note: *This line is only displayed for a configuration using both set types.*

V23 **DTMF**

CLASS service allows analogue terminals to receive the following information about the current call: Caller number (if there is no call offering restriction) and date and time of call (only available in V23 mode). Select V23 for standard European class sets and DTMF for Danish class sets.

TMS VC5402: TYPE

5402 : EXTENSION **……..**

Select the right TMS type.

STAT: IN SERVICE

Field which indicates the TMS status.

The following transitions are possible:

IN SERVICE **NOT EQUIP.** **DISABLED** **……..**

3.2.5.3 IP BOARD PARAMETERS MANAGEMENT (MENU 3-2-3)

```
IP BOARD PARAMETERS MANAGEMENT

    EQUI   IP ADDRESS         SUB-NETWORK ADD
    ---------------------------------------
    0-04    131.129.255.53     255.255.255.224
    1-01    131.129.255.54     255.255.255.224



    SELECT THE IP BOARD                   004

    ---------------------------------------
```

Figure 27: IP board parameters management (menu 3-2-3)

This menu is used to view all the declared PTX cards (including the virtual card fitted on the UCT card corresponding to position 0-04), the IP addresses and the associated sub-network masks. The last line is used to select one of the cards in order to display and modify its characteristics.

LOC

Indicates the card's position in the cabinet.

The equipment number is preceded by the number of the cabinet in which it is located:

- 0 : position on the CPU card (PTx virtual card in 0-04)
- 1 : position in the main cabinet (XL and XS)
- 2 : position in the expansion cabinet (XXL and XXS)
- 3 : position in the second expansion cabinet (XXXL)

Example: EQUIP 0-04 (position 04 in the CPU card)
EQUIP 2-03 (position 03 in the expansion cabinet)

IP ADDRESS

Card IP address over 4 bytes. This address is displayed as decimal values separated by points.

Note: *The integrated IP port on the UCT CPU card is declared automatically (pre-defined IP address = 192.168.65.01 and sub-network mask = 255.255.255.0). This function is used to manage the PBX (after a TOTAL Reset) internally via a management tool (M7420 or M7425) connected to the Ethernet port of the UCT CPU card using a twisted cable. You can then re-configure the UCT IP address.*

SUB-NETWORK ADD

The number of the sub-network and the number of the set on the sub-network.

The sub-network address and IP address must respect the following relations:

- if the first bit of the IP address is 0 (class A), the sub-network address must be in the form: 255.xxx.xxx.xxx,
- if the first 2 bits of the IP address are 10 (class B), the sub-network address must be in the form: 255.255.xxx.xxx,
- if the first 3 bits of the IP address are 110 (class C), the sub-network address must be in the form: 255.255.255.xxx.

SELECT THE IP BOARD

Using the space bar, select in this drop-down menu the position of a card to display and modify its characteristics. Press Enter to confirm.

Note: *Position 0-04 indicates the IP address position on the CPU card.*

```
IP BOARD PARAMETRES 0-04


    IP ADDRESS                131.129.255.53.
    MASK                   255.255.255.224
    DEFAULT ROUTER             131.129.255.33.
    UDP PORT                          40000
    TCP PORTS: FIRST NUMBER          41000
               LAST NUMBER          41999
    ETHERNET ADDRESS         08-00-71-09-80-2D
    LINK TYPE           10 Mb HALF DUPLEX


    ----------------------------------------
```

Figure 28: IP card selection

The title indicates the card's position (cabinet number and position of the card in the cabinet).

IP ADDRESS

Card IP address on 4 bytes.

Example: 192.42.11.154
Example: 0.0.0.0, 255.255.255.255 and 127.0.0.1 are not valid addresses.

Note: *The decimal value of the first byte must not be greater than 223; if it is, the MMC displays the message: ‘ SYNTAX ERROR ’.*

PTX CARD SLOT :

The IP address mask which comprises the number of the sub-network and the number of the set on the sub-network.

The mask and IP address must respect the following rules:

- if the first bit of the IP address is 0 (class A), the mask must be in the form: 255.xxx.xxx.xxx,
- if the first two bits of the IP address are 10 (class B), the mask must be in the form: 255.255.xxx.xxx,
- if the first three bits of the IP address are 110 (class C), the mask must be in the form: 255.255.255.xxx.

DEFAULT ROUTER

Router address. Only the IP address is mandatory: non provided data are at 0.

UDP PORT

Port number (5 digits maximum): value between 2050 and 65000 (by default, the port is set at 40000).

TCP PORTS

- FIRST NUMBER

Port number (5 digits maximum): value between 0 and 65534 (by default, the port is set at 41000).

- LAST NUMBER

Port number (5 digits maximum): value between 0 and 65534 (by default, the port is set at 41999).

The difference between the first and last number of the port must be at least equal to 500. If this difference is not respected, the second number is automatically updated to restore this difference.

ETHERNET ADDRESS

ETHERNET or MAC address of card over 6 bytes.

This address is displayed as hexadecimal values separated by dashes. *Example:* 08-00-71-03-00-0F

If the card is not in service, the Ethernet address is replaced by: "....."

LINK TYPE

Indicates the type of IP link connected to a PTx card:

- ……. (no link present, card “not connected” or “disabled”)
- 10 Mb Half Duplex
- 10 Mb Full Duplex
- 100 Mb Half Duplex
- 100 Mb Full Duplex

3.2.5.4 ISDN BOARD SWITCHES STATUS (MENU 3-2-4)

```
ISDN BOARD SWITCHES STATUS


    EQT NO.     TYPE        DIR NUM. / FX     AUTO-SUPPLY
    ------------------------------------------------------

    0-02-00     S0          300               YES

    0-02-01     DECT        FBORNE0           YES

    0-02-02     T0          FT0-ETSI          NO

    0-02-03     T0          FT0-ETSI          NO

    ------------------------------------------------------
```

Figure 29: ISDN board switches status (menu 3-2-4)

This menu indicates the jumper status for each ISDN access of the UCT-S (XS) and UCT-C (XC) cards.

EQT NO.

Indicates the ISDN access equipment number (cabinet, card, equipment). The S/T0 subscribers on the CPU card (XS and XC) are used in positions 0-02-00 to 0-02-03.

TYPE

Indicates the ISDN subscriber type: T0 (trunk group), S0 (set), DECT (DECT base station).

DIR NUM. / FX

Indicates the associated trunk group (for network, DECT base station) or directory number (for S0 set).

AUTO-SUPPLY

Indicates whether the access is auto-supplied.

3.3 MENU (3-3)

- For the Call Manager (F5): this menu is not available.
- F2: Menu 3-3 (Hardware configuration management)
- F1: Menu 3-3 (Configuration and recording)

```
CONFIGURATION AND MESSAGE

          1 HARDWARE CONFIGURATION

          2 BVF: RECORD ANNOUNCEMENTS

          ENTER YOUR CHOICE                .
```

Figure 30: Configuration and recording (Menu 3-3) (F1)

- F6 (XL/XS/XC): Menu 3-3 (SVF-BVF configuration)

```
SVF-BVF CONFIGURATION

    1 SVF-BVF: RECORD ANNOUNCEMENTS

    2 SVF-BVF BOARD ACCESS CONFIGURATION

    GENERAL CHARACTERISTICS OF IVS IVB

    ENTER YOUR CHOICE                    .

    ----------------------------------------
```

Figure 31: SVF-BVF configuration (Menu 3-3) (F6)

3.3.1 HARDWARE CONFIGURATION (M6501 L/R IP PBX AND M6504/M6540 IP PBX) (MENU 3-3-1)

3.3.1.1 M6501L/R IP PBX

```
CONFIG. MANAGEMENT

      CLASS SERVICE TYPE    V23

      TMS BASIC:    :    TYPE          SUBSC.+SUBSC.

                    :    STATUS           IN SERVICE

      TMS TOCT:     :    TYPE          SUBSC.+SUBSC.

                    :    STATUS           IN SERVICE

      ------------------------------------------
```

Figure 32: Hardware configuration (M6501L/R IP PBX)

CLASS SERVICE TYPE

Note: *This line is only displayed for a configuration using both set types.*

V23 **DTMF**

CLASS service allows analogue terminals to receive the following information about the current call: Caller number (if there is no call offering restriction) and date and time of call (only available in V23 mode). Analogue terminals using the Class service are special terminals with a display.

V23 Selection for standard European Class sets

DTMF Selection for Danish Class sets

TMS BASIC:

TYPE

•••••• **EXTENSION** **NETWORK 1** **NETWORK 2** For OCT4B

This field cannot be modified because the standard TMS is configured as

EXTENSION For OCT4

STATUS

IN SERVICE **OUT OF SERVICE** **NOT EQUIP.**

This state is selected automatically on Total Reset. The system takes account of the TMS and downloads them.

OUT OF SERVICE Put 1 TMS out of service.

IN SERVICE Used for downloading new TMS software.

TMS TOCT:

TYPE

• • • • • • **EXTENSION** **NETWORK 1** **NETWORK 2** For OCT4

The TMS TOCT is an additional TMS for a TOCT daughter card TMOCT4 (OCT4).

For the configuration, select TMS TOCT: **EXTENSION RAM** or **NETWORK 2**.

3.3.1.2 M6504/M6540 IP PBX

Hardware description

The OCI is equipped by default with a TOCH2 card (HJ2723A), with 2 RAM TMSs and one MOCI card. These 2 TMSs can be downloaded by programming either in EXTENSION RAM code (DTMF transmitters and receivers) or in NETWORK RAM code (MF SOCOTEL transmitters and receivers).

On system start up, the 2 TMs are automatically configured EXTENSION RAM. The TMS configured as EXTENSION RAM can manage:

- 1 x 330 Hz tone generator (-8 dBmo)
- 2 x 440 Hz tone generators (-11 dBmo)
- 1 x 330/440 Hz tone generator
- 2 x 330/440 Hz tone detectors
- 2 x 4-party conferences
- 2 x DTMF transmitters
- 2 x DTMF receivers

The TMS configured as NETWORK RAM 2 can manage:

- 1 x 330 Hz tone generator (-8 dBmo)
- 1 x 440 Hz tone generator (-11 dBmo)
- 1 x 330/440 Hz tone detector
- 2 x 4-party conferences
- 2 MF SOCOTEL transmitters
- 2 MF SOCOTEL receivers
- 2 x R2 code receivers
- 2 x R2 code transmitters

The TMS configured as NETWORK RAM can manage:

- 1 x 330 Hz tone generator (-8 dBmo)
- 1 x 440 Hz tone generator (-11 dBmo)
- 2 x 330/440 Hz tone detectors
- 2 x 4-party conferences
- 4 MF SOCOTEL transmitters
- 4 x MF SOCOTEL receivers

A second TOCH2 card can be fitted to the OCI card (optional).

```
HARDWARE CONFIG.


                    TMS TOCH1 DSP2  : TYPE       EXTENSION RAM
                                    : STATE         IN SERVICE
                    TMS TOCH1 DSP3  : TYPE       EXTENSION RAM
                                    : STATE         IN SERVICE
                    TMS TOCH2 DSP4  : TYPE       EXTENSION RAM
                                    : STATE         IN SERVICE
                    TMS TOCH2 DSP5  : TYPE       EXTENSION RAM
                                    : STATE         IN SERVICE

                    LRN SYNC FOR 1ST PCM ONLY              NO

                    EXTENSION CABINET              DATA + TEL


                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 33: Hardware configuration (M6504/M6540)

For each TMS TOCH1 (DSP2 and DSP3), TMS TOCH2 (DSP4 and DSP5), you must select the DSP type and state.

TYPE

•••••• **EXTENSION RAM** **NETWORK RAM** **NETWORK RAM 2**

For the DSP2, do not modify the default field **EXTENSION RAM**.

STATUS

IN SERVICE **OUT OF SERVICE** **NOT EQUIP.**

IN SERVICE Takes into account the TSMs and downloads them.

OUT OF SERVICE Put 1 TMS out of service.

NOT EQUIP. Used for downloading new TMS software.

LRN SYNC FOR 1 ST PCM ONLY

NO **YES**

Set YES for a public operator PCM and a PRIVATE PCM.

EXTENSION CABINET

ABSENT | **DATA + TEL.** | **TELEPHONE**

On system start up, this field is configured automatically according to the type of expansion cabinet.

The composition of the data + telephone expansion cabinet is identical to that of the basic cabinet.

The telephone expansion cabinet has 14 slots for telephone cards.

3.3.2 RECORD ANNOUNCEMENTS

- ☞ F1: Menus 3-3-2 and 5-5-2-8 (BVF: Recording messages)
- ☞ F6 (XL/XS/XC): Menus 3-3-1 and 5-5-2-5 (SVF-BVF: Recording messages)

```
RECORD ANNOUNCEMENTS

          PHYSICAL SLOT OF SOURCE                    …

          BOARD PHYSICAL EQUIPMENT                   …
          CATALOGUE NUM/GUIDE                        …
          - LABEL                                    ……..
          - DURATION IN SEC.                         …

          RECORDING PARAMETERS
          - CATALOGUE-MIXED GUIDE                    …
          - RECORDING LEVEL                          …
          - ATTENUATE MUSIC BY VOICE                 YES
          start recording                            YES
```

Figure 34: Record announcements

This menu is used to record customised announcements using a digital or analogue set, and to replace the pre-configured announcements on the card with new announcements.

Updating messages (also called announcements):

- ♦ requires the utility MCTOOLS Messages, on a CSS type card (F2)
- ♦ requires the utility MCTOOLS Messages, on a CC1 type card (F1)
- ♦ requires the utility M7420 Music Manager on a UTC card (F6).

For messages written in Flash PROM, a list showing the location and length of each message is displayed. Synchronised messages are broadcast from the beginning. This menu can therefore be used to listen to the different message on the card without having to temporarily define a definable tone.

Note: *Accessing this menu puts the set out of service: it is therefore not recommended to access this menu unnecessarily.*

PHYSICAL SLOT OF SOURCE

Enter the equipment number of the set from which the announcement will be recorded (four digits for F1 and five digits for F6).

BOARD PHYSICAL EQUIPMENT

Enter the equipment number of the card containing the pre-configured announcements (4 digits for F1 and 006 for F6).

> **Note:** *For F6, the voice mail system's virtual card on the UCT card contains pre-configured annoncements. Its equipment number is 006.*

CATALOGUE NUM/GUIDE

Enter the catalogue number (if different from 0) and the announcement number (value between 1 and 255).

When the bothway connection is made with the first time interval allocated to the message function, you can listen to the selected message.

> **Note:** *To view the number of an announcement, display the announcement list.*

LABEL

When the announcement number is validated, enter the message name.

DURATION IN SEC.

When the announcement number is validated, enter the message duration.

RECORDING PARAMETERS

CATALOGUE-MIXED GUIDE

Enter the catalogue number (if different from 0) and the number of the announcement to be mixed (value between 1 and 255).

This field is only filled in if mixing is requested. Therefore, the announcement which will be combined with another announcement must logically be a background melody on which another message is to be superimposed.

RECORDING LEVEL

Enter the recording level (value between 1 and 255).

ATTENUATE MUSIC BY VOICE

NO **YES**

Select YES to lower the music level when someone speaks: this parameter is also known as fading.

START RECORDING

NO **YES**

Select YES to start recording the message. During the operation, the message "Work In Progress" is displayed. When the card detects the end of the operation, the recording stops and the message is played back.

After playback, you can make further recordings with different recording and sound levels.

3.3.3 SVF-BVF BOARD ACCESS CONFIGURATION (F6) (MENU 3-3-2)

```
SVF-BVF BOARD ACCESS CONFIGURATION

            0-06-00 DIR. IN SERVICE       ..........
            0-06-01 IVS. DISABLED                  ..........
                   SCRIPT GROUP               0

                         USED BY           IN GROUP
            SCRIPT 0 74050                          .
            SCRIPT 1                                .
            SCRIPT 2                                .
            SCRIPT 3                                .
            SCRIPT 4                                .
            SCRIPT 5                                .
            SCRIPT 6                                .
            SCRIPT 7                                .
            SCRIPT 8                                .
            SCRIPT 9                                .
            SCRIPT 11                                .
            ----------------------------------------
```

Figure 35: SVF-BVF board access configuration (F6) (Menu 3-3-2)

This MMC is used to ENABLE / DISABLE IVS accesses. It is also possible to assign script groups to the IVS accesses and to divide the scripts into different groups.

0-06-xx: STATUS

Indicates the position and status of the physical access on cards which support spoken announcements (0-06-00) and voice prompts (0-06-01).

You can proceed as follows:

IN SERVICE	DISABLED
IN SERVICE	Physical access being used in the PBX.
DISABLED	Physical access disabled.

SCRIPT GROUPS

A script group is a set of scripts present on a card. Assign a script group to the physical accesses.

> **Note:** *By default, the number of group "0" is assigned to the physical accesses.*

SCRIPTX USED BY IN GROUP

Indicates for each script, the logical subscriber(s) used and the group to which it/they belongs.

> **Note:** *To assign or modify the script group numbers, you need to DISABLE the IVS accesses.*

3.3.4 GENERAL CHARACTERISTICS OF IVS IVB (F6) (MENU 3-3-3)

```
DISPLAY IVS GENERAL CHARACTERISTICS

            BVF BOARD SLOT: 0-06
            ------------------------------------------
            - FLASH SIZE (MEGABYTES)         15...
            - FIRMWARE VERSION        NEF31034 104
            - RECORDING LAW                  A LAW
            - COUNTRY CODE                              XF
            - COUNTRY INDEX                             0
            - ECHO CANCELLATION DEPTH (MS)   0

            ------------------------------------------
```

Figure 36 : Displaying IVS general characteristics (F6) (Menu 3-3-3)

This MMC is used to display the hardware information of the BVF board's interactive voice response server.

FLASH SIZE

Size of the flash memory in megabytes.

FIRMWARE VERSION

16 alphanumeric characters max.

RECORDING LAW

A law or MU law.

COUNTRY CODE

2-character value indicating the country's code (XF for France, GE for Germany, GB for Great Britain, etc.).

COUNTRY INDEX

Not used.

ECHO CANCELLATION DEPTH (MS)

Value associated to the DTMF detector and expressed in milliseconds.

3.4 TERMINAL MANAGEMENT (MENU 3-4)

☞ For the Call Manager (F5): this menu is not available.

3.4.1 TERMINAL CONNECTION

3.4.1.1 M6501L/R IP PBX WITH OCT4 CARD

The OCT4 card offers the following connection possibilities:

- a CONSOLE in VT100 emulation connected to the J10 connector of the OCT4 card
- or a PC in VT100 Emulation with communication software (*example:* CROSSTALK, HYPERTERMINAL, PROCOM+, BBTH, etc.) connected to the J10 connector of the OCT4 card to carry out configuration programming, backup or restore
- a printer connected to the J2 connector of the OCT4 card

To connect a Minitel terminal (French Videotex terminal) directly, use an analogue subscriber line by calling from the modem (79 or 799).

3.4.1.2 M6504/M6540 IP PBX

The terminals are connected to the IOCK card via the multi-purpose connector on the distribution frame (see M6504/M6540 installation manual).

3.4.1.3 XL/XS/XC

The UCT card offers the following connection possibilities:

- a CONSOLE in VT100 emulation connected to the J6A connector of the UCT card
- or a PC in VT100 Emulation with communication software (*example:* CROSSTALK, HYPERTERMINAL, PROCOM+, BBTH, etc.) connected to the J9B connector of the UCT card to program, back up or restore the configuration
- a printer connected to the J6B connector of the UCT card.

To connect a Minitel terminal (French Videotex terminal) directly, use an analogue subscriber line by calling from the modem (799). For further information on terminal connection, refer to the Maintenance and Installation Manual.

3.4.2 M6501L/R IP PBX (OCT4), M6504/M6540 IP PBX AND XL/XS/XC

```
TERMINAL MANAGEMENT

            CONSOLE:
            - SPEED                                          NO
            - DONGLE ON SERIAL PORT                         YES
            - REMOTE OPER. ACCESS, VIRTUAL PAD              YES
            - COMPACT_FORMAT HANDLING ACCESS       VT100 OR PC
            - ACCESS MODE                            RHM VT100
            - ACTIVE SERVICE AT INIT.

            MODEM:
            - REMOTE OPER. ACCESS, VIRTUAL PAD               NO
            - ACCESS MODE                                VT100

            PRINTER:                                   V24.9600
            - SPEED                                          40
            - FLOW CONTROL WAIT IN SECONDS
            ---------------------------------------------
```

```
TERMINAL MANAGEMENT

            VIRTUAL PAD CONNECTION REMAINS                   NO


            ---------------------------------------------
```

Figure 37: Terminal management

This Terminal Management menu is used to define the connection and access mode between the PBX and its peripherals devices (console, modem, printer).

CONSOLE

THROUGHPUT

V24.300 **V24.1200** **V24.2400** **V24.4800** **V24.9600** **V24.19200**

V24.38400 **V24.57600** **V24.115200**

Select a transmission speed.

> **Note:** *By default, the PBX is configured to operate at a transmission speed of 9600 bauds. However, this speed can be changed to synchronise the link with the terminal connected (see the installation manual).*

DONGLE ON SERIAL PORT

NO **YES**

Select YES to declare a demonstration dongle.

REMOTE OPER. ACCESS, VIRTUAL PAD

NO **YES**

Select YES for remote access to the console.

The QUIT command (Escape + Q, then Y to confirm) is displayed on screen:

- 10 operation VT100 ↔ (11 Minitel terminal operation)
- 30 remote operation VT100 ↔ (31 remote Minitel terminal operation) is used to call the remote site (multi-site operation) to carry out remote operation via the MMC server
- 40 remote server VT100 ↔ (41 remote server Minitel = used to call certain PBX internal servers (AFISER, SRVRHM, KITAXE, MUFACT, SRVANN) .

Note: *The operation of VT100, Minitel, or Windows depends on the choice made in ACCESS MODE.*

COMPACT FORMAT HANDLING ACCESS

NO **YES**

This line is specific to the Management Centre.

ACCESS MODE

VT100 **VT100 or PC** **MINITEL or VT100** **MINITEL or PC or VT100**

This field is used to define the console access mode.

ACTIVE SERVICE AT INIT.

VT100 MMC **----------**

Selecting "--------" connects the Management Centre to the PBX as soon as the latter initialises.

MODEM

REMOTE OPER. ACCESS, VIRTUAL PAD

NO **YES**

Select YES for remote access to the modem.

ACCESS MODE

MINITEL **MINITEL or VT100** **MINITEL or PC or VT100** **VT100**

This field defines the remote access mode.

PRINTER

RATE

V24.1200 **V24.2400** **V24.4800** **V24.9600**

Transmission speed selection for the printer.

FLOW CONTROL WAIT IN SECONDS

Wait duration is seconds, set by default at 40 seconds (maximum 99 seconds).

The wait duration must be selected according to the printer connected and its management type. Some printers only reply with code "XON" (character transmission restart) after a total dump of their internal buffers. In this case, transmission is suspended for 20 or 30 seconds or more. Other printers authorise transmission restart as soon as there is memory space available.

The message "printer unavailable" only appears at the end of the wait period. If a value is too small, the printout is aborted, and the diagnostic message is displayed (incorrectly). It is therefore advisable to adjust this parameter according to the configuration encountered.

VIRTUAL PAD CONNECTION REMAINS

NO **YES**

Select YES to maintain a virtual-PAD in "inactive" status: this PAD is disconnected at the end of non-use timeout.

3.5 PASSWORD MANAGEMENT (MENU 3-5)

☞ For the Call Manager (F5): Menu 3-3 (Password management).

3.5.1 M6501L/R IP PBX, M6504/M6540 IP PBX, XL, XS, XC

```
PASSWORD MANAGEMENT
                    MANAGEMENT PASSWORD
                    READ-PROTECTED WRITE-PROTECTED     DONNE
                    - LAST ACCESS ON 01-01-80 AT 00:00
                    READ-PROTECTED WRITE NOT PROTECTED DONNE
                    READ-PROTECTED WRITE FORBIDDEN     DONNE
                    READ NORMAL. WRITE NORMAL.         DONNE
                    READ NORMAL. WRITE FORBIDDEN       DONNE

                    ADMINISTRATION PASSWORD
                    READ: CHARGE COUNTER + LOG RESET   SUIVI
                    - LAST ACCESS ON 01-01-80 AT 00:00
                    READ: CHARGE COUNTER RESET         SUIVI
                    READ: CLEAR FORBIDDEN              SUIVI
                    INSTALLER PASSWORD                 INSTA
                    - LAST ACCESS ON 01-01-80 AT 00:00
                    PASSWORD RECORD. MOBILE            12345
                    ---------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 38: Menu 3-5 (Password management F1/F2/F6)

This screen is used to define passwords to protect operation: access to management (telephony, data , system) and operation administration.

The system has 4 passwords which are used to access the defined menus:

- **DONNE** > Password for telephony management (menu 1), data management (menu 2), and system management (menu 3).
- **SUIVI** > Password for operation administration (menu 4).
- **INSTA** > Password only for PBX installers (menu 5).
- **12345** > Password for mobile phone management.

This configuration operation is strongly recommended to guard against other users modifying your programming options using the password INSTA.

Note: *If you accidentally lose or forget your password, contact your technical assistance department.*

On TOTAL RESET of the system, the password is reset as INSTA.

MANAGEMENT PASSWORD

READ-PROTECTED WRITE-PROTECTED

Enter the password using 5 alphanumeric characters (by default, DONNE).

Note: *The date and time of the last access are displayed as read access.*

READ-PROTECTED WRITE NOT PROTECTED

Enter the password using 5 alphanumeric characters (by default, DONNE).

READ-PROTECTED WRITE FORBIDDEN

Enter the password using 5 alphanumeric characters (by default, DONNE).

READ NORMAL WRITE NORMAL

Enter the password using 5 alphanumeric characters (by default, DONNE).

READ NORMAL WRITE FORBIDDEN

Enter the password using 5 alphanumeric characters (by default, DONNE).

ADMINISTRATION PASSWORD

READ: CHARGE COUNTER + LOG RESET

Enter the password using 5 alphanumeric characters (by default, SUIVI).

Note: *The date and time of the last access are displayed as read access.*

LIRE. REINIT TAXES

Enter the password using 5 alphanumeric characters (by default, SUIVI).

READ: CLEAR FORBIDDEN

Enter the password using 5 alphanumeric characters (by default, SUIVI).

INSTALLER PASSWORD

Enter the password using 5 alphanumeric characters (by default, INSTA).

Note: *The date and time of the last access are displayed as read access.*

PASSWORD RECORD. MOBILE

Enter the password using 5 alphanumeric characters (by default, 12345).

Note: *This password gives access to wireless management.*

```
MANAGEMENT PASSWORD

          MANUFACTURER PASSWORD          *****
          - LAST ACCESS DD/MM/YY at HH :mm
```

MANUFACTURER PASSWORD

LAST ACCESS ON DD /MM/YY AT HH:MM

As of release 2.1 it is possible to change the manufacturer password.

Enter the 5-character password.

IMPORTANT: *These lines only appear if the user enters the menu using an MPC or MPP password (privileged access rights)*

3.5.2 COMPACT FORMAT WITH PASSWORD

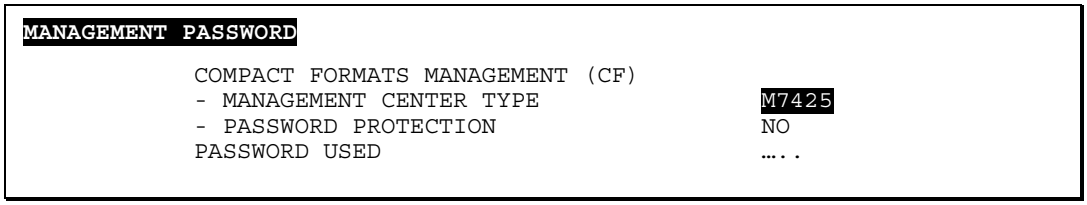


Figure 39: Compact format with password management

Regardless of the type of PBX, you can protect all the compact formats with a specific password.

> **Note:** *A compact format indicates an ASCII format, grouping parameters together in a condensed form (header + body): it is used principally for management by applications external to the PBX.*

COMPACT FORMATS MANAGEMENT (CF)

- MANAGEMENT CENTER TYPE

M7425 **M7430**

Used to select the type of Management Centre connected to the PBX.

- PASSWORD PROTECTION

NO **YES**

Select YES to protect all the compact formats with an installer password.

PASSWORD USED

Enter the password using 5 alphanumeric characters (by default, EXPFC).

> **Note:** *This password can be modified if the installer password was used for the password management value.*

<COMPACT FORMAT NAME>

NO **YES**

Select YES to protect the compact format specified by the installer password.

3.6 PARAMETER MANAGEMENT (MENU 3-6)

☞ For the Call Manager (F5): Menu 3-4 (Parameter management).

```
PARAMETER MANAGEMENT

              MULTI-COMPANY MANAGEMENT                  YES
              - TEL. CALL BETWEEN COMPANIES             YES
              - DATA CALL BETWEEN COMPANIES              NO
              MULTI-SITE MANAGEMENT                     YES
              OPERATOR GROUP AUDIT ACTIVATED             NO
              TYPE OF WIRELESS MANAGEMENT              DECT
              CONSOLE TIME-OUT (SECONDS)                600
              CURRENT LANGUAGE                  LANGUAGE 1
              INSTALL. NAME                  ..............

              NUMBER OF RECORDS (current) (requested)
              - TELEPHONY TYPE                         1956
              - DATA TYPE       10                     10..
              - SERVICE TYPE    10                     10..
              - SUPERVISION TYPE    24                 24..
              - OBSERVATION TYPE    40                 40..

              ----------------------------------------
```

Figure 40: Menu 3-6 (Parameter management).

This menu is used to define management and the desired language.

MULTI-COMPANY MANAGEMENT

NO **YES**

Select YES to display all the multi-company menus.

On start up, the system is configured in single-company configuration.

Note: *If you select NO, the single-company configuration characteristics are re-established:*

- *no company other than company 0*
- *no department other than department 0 of company 0*
- *no routing code other than code 0*
- *no abbreviated number code other than code 0*

If you select these conditions, you will have to make other modifications before you can delete the created names.

This field is only changed from YES to NO in very rare circumstances.

COM. CALL BETWEEN COMPANIES

NO **YES**

This field is displayed if multi-company configuration is used.

YES for a real multi-company configuration.

NO this option means that the multi-company type is false: there is no consistency check carried out on the company extension numbers which can be in a call.

COM. DATA CALL BETWEEN COMPANIES

NO **YES**

This field appears if multi-company configuration is selected: it authorises data transmission between the various companies.

MULTI-SITE MANAGEMENT

NO **YES**

Select YES to open multi-company configuration.

CONSOLE TIME-OUT (SECONDS)

Time-out duration set by a default as 600 seconds maximum (10 minutes). At the end of this period the idle menu is displayed automatically.

CURRENT LANGUAGE

LANGUAGE 1 **LANGUAGE 2**

Press the space bar to select the language you require. To begin with, only the current line is translated, then all the text in the menus. After this operation is complete, the shortcut commands change to correspond with the language selected (ESC + first letter of command).

Example:

	ENGLISH	FRENCH
Load session	Session	Session
Delete field	Delete	Delete
Delete repeated line	Clear	Clear
Return to first menu	Origin	Source
Print menu	Hardcopy	Hardcopy
First line of menu	Begin	Begin
Go to next screen	More	More
Last line of menu	End	End
Select printout	Type	Type
Select value	Find	Value
Repetition	Repeat	Repeat
Print all menus	Listing	Listing
Previous element /Next element	Previous / Next	Previous /Next
Simple validation	Yes	Yes
Add/Delete	Add / Delete	Add/Delete
Begin	First	Begin
Change session	Jump	Jump
Agent log out	Leave	Exit

INSTALL. NAME ----------

This field is used to enter the name of your systems, using 24 ASCII characters.

The system name is then displayed at the bottom of the screen and acts as a separator between the Menu part and the Title part on all screens. In remote operation (by Modem or X25 server), it reminds the operator of the site he is connected to.

NUMBER OF RECORDS (CURRENT) (REQUESTED)

The storage buffers can hold a maximum of 128 records.

The request is only taken into account after restarting the system: the current values then become equal to the requested values.

3.7 MULTI-SITE MANAGEMENT (MENU 3-7)

Since the multi-site management functions are of great importance, they are not described in this manual, and are dealt with in a separate manual (reference PS8719AHA01).

3.8 SOFTWARE LOCK MANAGEMENT (MENU 3-8)

☞ For the Call Manager (F5): Menu 3-8 (Software lock management).

This menu is menu 3-7 when the PBX is used with mono-site configuration (see PARAMETER MANAGEMENT menu). This menu is menu 3-8 when the PBX is used with multi-site configuration (see PARAMETER MANAGEMENT menu).

```
SOFTWARE LOCK MANAGEMENT


                    1 UNLOCK SA FUNCTIONS

                    2 DISPLAY SA FUNCTIONS




                    ENTER YOUR CHOICE                    .

                    ----------------------------------------

                    Delete Origin Session Hardcopy
                                          <RET>  <LF>
```

Figure 41: Menu 3-8 (Software lock management).

3.8.1 UNLOCK SA FUNCTIONS (MENU 3-8-1)

☞ For the Call Manager (F5): Menu 3-8-1 (Unlock SA functions).

This menu allows the installer to unlock the functions acquired by the customer (SA: Sales Administration)

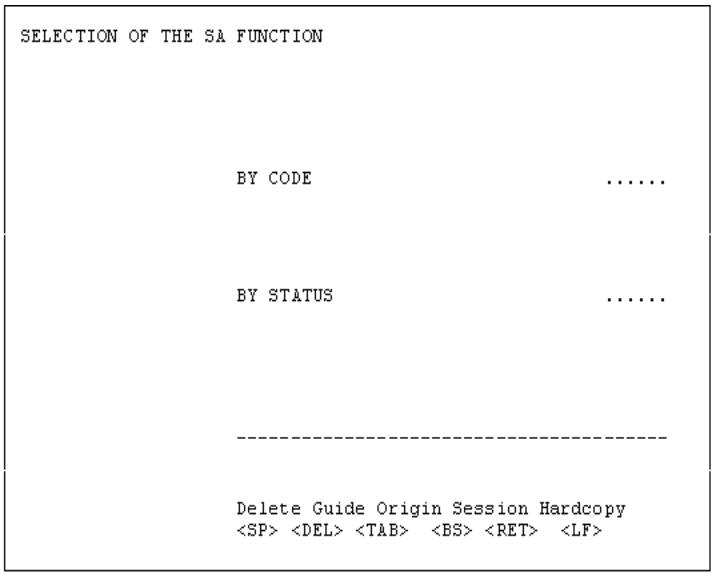


Figure 42: Selection of the SA function

BY CODE (M6501 L/R IP PBX AND M6540 IP PBX)

HOSPITAL/HOTEL **IAE_DE_RENVOI** **CALL DIST** **LISTEN/INTRUSION** **LCR** **DISA**

RECORD > 128 **AVS2000** **MULTISITE** **BASIC DIRECTORY**
4-DEVICE CSTA **8-DEVICE CSTA** **INTEGRATED BUFFER**
16-DEVICE CSTA **32-DEVICE CSTA** **64-DEVICE CSTA**
128-DEVICE CSTA **256-DEVICE CSTA** **512-DEVICE CSTA**
1024-DEVICE CSTA **2048-DEVICE CSTA** **IVB**
IVS V24 2 ACCESSES **IVS V24 4 ACCESSES** **IVS V24 8 ACCESSES**
IVS V24 16 ACCESSES
IVS V24 S2 32 ACCESSES **IVS V24 S2 64 ACCESSES**
IVS DTMF 2 ACCESSES **IVS DTMF 4 ACCESSES** **IVS DTMF 8 ACCESSES**
IVS DTMF 16 ACCESSES **IVS DTMF 32 ACCESSES** **IVS DTMF 64 ACCESSES**
IVS DTMF +2 ACCESSES **IVS DTMF +4 ACCESSES** **IVS DTMF +8 ACCESSES**
IVS DTMF +16 ACCESSES **IVS DTMF +32 ACCESSES** **IVS DTMF +64 ACCESSES**
SGML/OPCO 2 SESSIONS **SGML/OPCO 4 SESSIONS** **SGML/OPCO 8 SESSIONS**
SGML/OPCO 16 SESSIONS **SGML/OPCO 32 SESSIONS** **SGML/OPCO 64 SESSIONS**
10 IP TERMINALS **25 IP TERMINALS** **50 IP TERMINALS**
75 IP TERMINALS **100 IP TERMINALS** **150 IP TERMINALS**
200 IP TERMINALS **250 IP TERMINALS**

Select a code.

BY CODE (FOR CALL MANAGER)

HOSPITAL | HOTEL | CALL DIST | LISTEN/INTRUSION
RECORD > 128 | DIRECTORY 5000 | DIRECTORY 10000 | FORWARD IAE
4-DEVICE CSTA | 8-DEVICE CSTA | 16-DEVICE CSTA
32-DEVICE CSTA | 64-DEVICE CSTA | 128-DEVICE CSTA
10 IP TERMINALS | 25 IP TERMINALS | 50 IP TERMINALS
75 IP TERMINALS | 100 IP TERMINALS | 150 IP TERMINALS
200 IP TERMINALS | 250 IP TERMINALS | 300 IP TERMINALS
350 IP TERMINALS | 400 IP TERMINALS | 450 IP TERMINALS
500 IP TERMINALS | 600 IP TERMINALS | 700 IP TERMINALS
750 IP TERMINALS | 800 IP TERMINALS | 900 IP TERMINALS
960 IP TERMINALS

Select a code.

BY CODE (XL/XS/XC)

HOSPITAL/HOTEL | IAE_DE_RENVOI | CALL DIST | LISTEN/INTRUSION
LCR | DISA | RECORD > 128 | AVS2000
MULTISITE | 4-DEVICE CSTA | 8-DEVICE CSTA
16-DEVICE CSTA | 32-DEVICE CSTA | 64-DEVICE CSTA
128-DEVICE CSTA | 256-DEVICE CSTA | 512-DEVICE CSTA
1024-DEVICE CSTA | 2048-DEVICE CSTA | IVB
AUTOMATED ATTENDANT | IVS V24 2 ACCESSES | IVS V24 4 ACCESSES
IVS V24 8 ACCESSES | IVS V24 16 ACCESSES
IVS V24 S2 32 ACCESSES | IVS V24 S2 64 ACCESSES
IVS DTMF 2 ACCESSES | IVS DTMF 4 ACCESSES | IVS DTMF 8 ACCESSES
IVS DTMF 16 ACCESSES | IVS DTMF 32 ACCESSES | IVS DTMF 64 ACCESSES
IVS DTMF +2 ACCESSES | IVS DTMF +4 ACCESSES | IVS DTMF +8 ACCESSES
IVS DTMF +16 ACCESSES | IVS DTMF +32 ACCESSES | IVS DTMF +64 ACCESSES
SGML/OPCO 2 SESSIONS | SGML/OPCO 4 SESSIONS | SGML/OPCO 8 SESSIONS
SGML/OPCO 16 SESSIONS | SGML/OPCO 32 SESSIONS | SGML/OPCO 64 SESSIONS
10 IP TERMINALS | 25 IP TERMINALS | 50 IP TERMINALS
75 IP TERMINALS | 100 IP TERMINALS | 150 IP TERMINALS
200 IP TERMINALS | 250 IP TERMINALS

Select a code.

BY STATUS

••••	LOCK	CLE CARD	ALLOWED	UNLOCK

Select a status.

••••	indicates all statuses.
LOCK	functions are not open and have no key code.
CLE CARD	the key code is entered (function not available).
ALLOWED	functions are allowed.
UNLOCK	functions are unlocked and the key is entered.

UNLOCK HOSPITAL/HOTEL FUNCTION

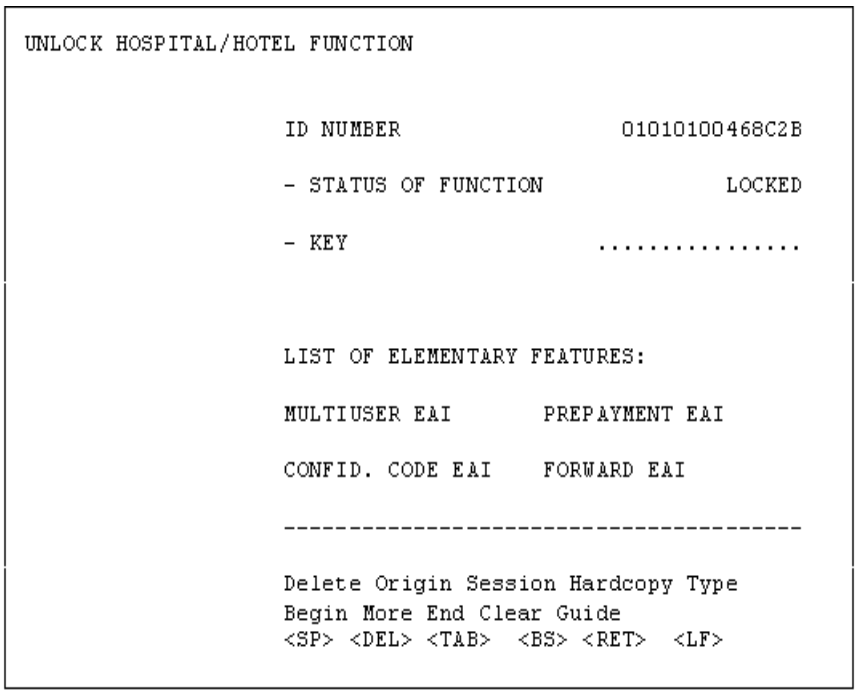


Figure 43: Unlock hospital/hotel

ID NUMBER

Corresponds to the machine identification number (code stored in the dongle).

STATUS OF FUNCTION

• • • • **LOCK** **CLE CARD** **ALLOWED** **UNLOCK**

Used to select the status of SA functions.

• • • • indicates all statuses.

LOCK functions are not open and have no key code.

CLE CARD the key code is entered (function not available).

ALLOWED functions are allowed when there is a demonstration dongle installed.

UNLOCK functions are unlocked and the key is entered.

LIST OF ELEMENTARY FEATURES

The list of elementary features which are part of the function.

3.8.2 DISPLAY SA FUNCTIONS (MENU 3-8-2)

☞ For the Call Manager (F5): Menu 3-8-2 (Display SA functions).

```
DISPLAY SA FUNCTIONS
            FUNCTION              STATUS
            ---------------------------------------
            HOSPITAL/HOTEL          ALLOWED
            FORWARD IAE             ALLOWED
            C. DIST.                ALLOWED
            LISTEN/INTERVENTION     ALLOWED
            LCR                     ALLOWED
            DISA                    ALLOWED
            RECORD > 128 BYTES      ALLOWED
            AVS2000                 ALLOWED
            MULTISITE               ALLOWED
            4-DEVISE CSTA           ALLOWED
            8-DEVISE CSTA           ALLOWED
            16-DEVISE CSTA          ALLOWED
            32-DEVISE CSTA          ALLOWED
            64-DEVISE CSTA          ALLOWED
            ---------------------------------------
```

Figure 44: Display SA functions (F6)

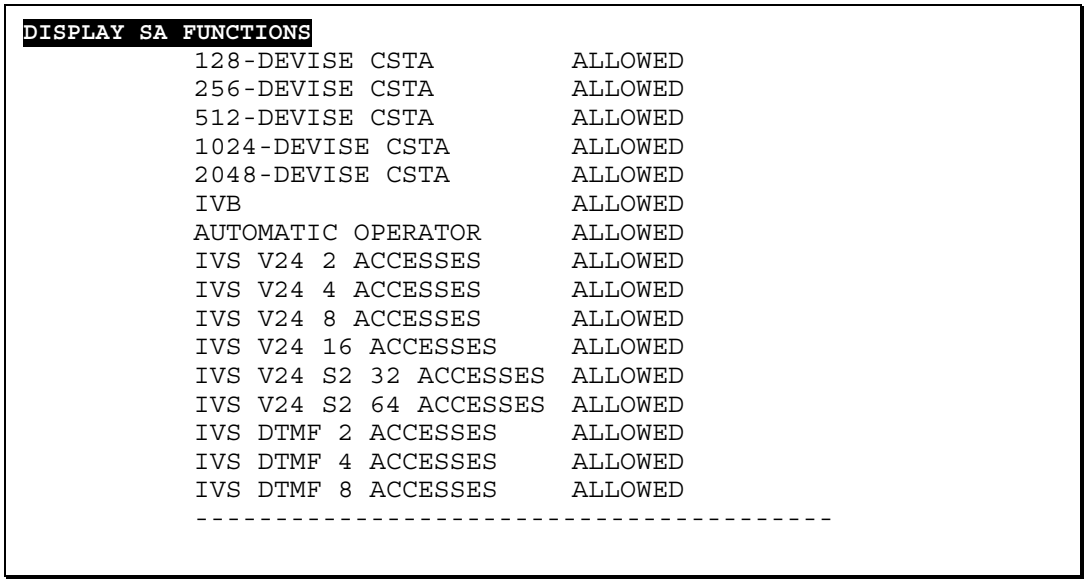


Figure 45: Display SA functions (F6) (continued)

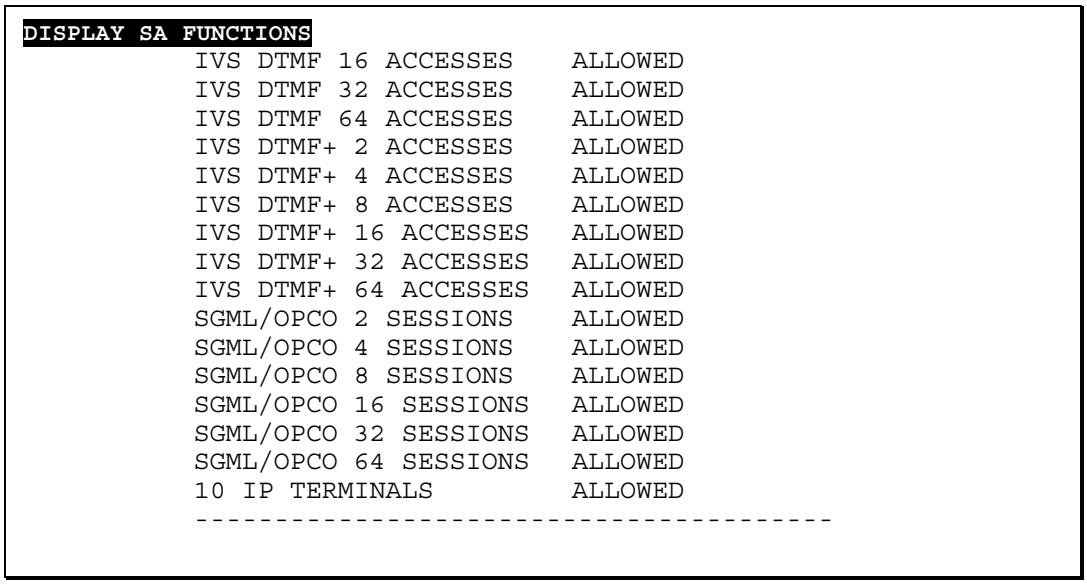


Figure 46: Display SA functions (F6) (continued)

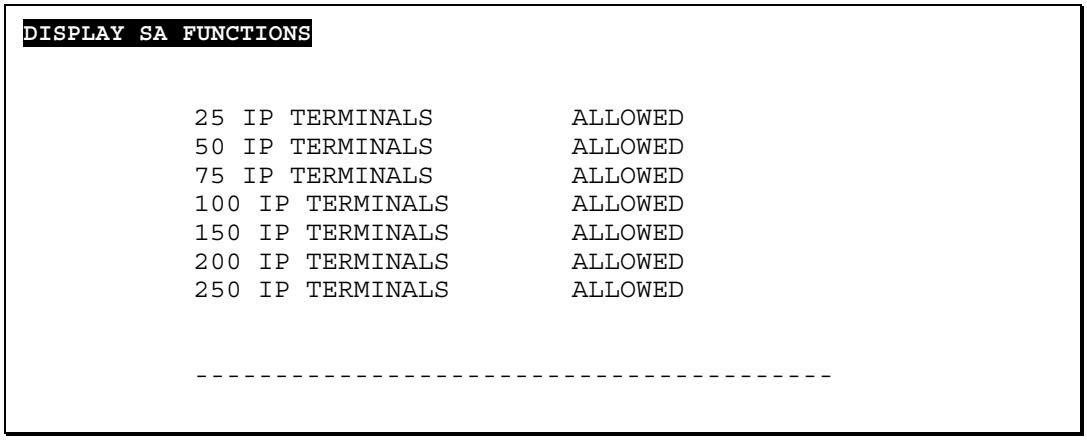


Figure 47: Display SA functions (F6) (continued)

3.9 INTEGR. BUFFER MANAGEMENT (MENU 3-9)

☞ For the Call Manager (F5): this menu is not available.

```
INTEGR. BUFFER MANAGEMENT

            1 PARAMETER MANAGEMENT

            2 RESET FLASH

            ENTER YOUR CHOICE                          .

            ------------------------------------------------
```

Figure 48: Menu 3-9 (Integrated buffer management)

3.9.1 PARAMETER MANAGEMENT (MENU 3-9-1)

☞ For the Call Manager (F5): this menu is not available.

```
PARAMETER MANAGEMENT

            FUNCTIONAL STATUS
            STAT: OPERATIONAL mode                     SUSPENDED
            MODE: NORMAL                               FALLBACK (Fold)

            TOTAL MEMORY CAPACITY                      6 MB
            SIZE REQUIRED FOR BACKUP   2 MB

            MUFACT CALL NUMBER                         ......
            MUFACT CALL PROFILE                        .
            START/END MARKER
```

Figure 49: Integr. buffer parameter management (1)

```
PARAMETER MANAGEMENT

           STORAGE BLOCKS OF RECORD TYPES
           - TELEPHONY TYPE                            BLOCK 0
           - PACKET DATA TYPE                          BLOCK 1
           - CIRCUIT DATA TYPE                         BLOCK 2
           - SERVICE TYPE (AND ALARMS)                 BLOCK 3
           - SUPERVISION TYPE                          BLOCK 4
           - MONITORING TYPE                           BLOCK 5

           BLOCK n CHARACTERISTICS
           - TOTAL SIZE  (KB)                          6 MB
           - FALLBACK MODE SIZE  (KB)                  2 MB
           - FILLING RATE (%)                          50
           - MANAGEMENT MODE                           .
           -  SATURATION THRESHOLD(%)                  75

           DELETE ALL RECORDS                          YES
```

Figure 50: Integr. buffer parameter management (2)

These screens are used to configure the integrated buffer and in particular the different file blocks it contains.

FUNCTIONAL STATUS

STATUS

OPERATIONAL mode **SUSPENDED**

Select a functional status for the integrated buffer.

Note: *You must select the status SUSPENDED if you want to modify the integrated buffer parameters.*

MODE

NORMAL **FALLBACK EST** **FALLBACK IN PROG.**

Select a mode for the integrated buffer.

MUFACT CALL NUMBER

Enter a directory number.

MUFACT CALL PROFILE

Enter the record type.

START/END MARKER

NO **YES**

Select YES to validate the presence of a start marker and an end marker.

STORAGE BLOCKS OF RECORD TYPES

Note: *There can only be one record type in a single storage block.*

- TELEPHONY TYPE

Enter the storage block for the call records.

- PACKET DATA TYPE

Enter the storage block for the packet data communication records.

- CIRCUIT DATA TYPE

Enter the storage block for the circuit data communication records.

- SERVICE TYPE (AND ALARMS)

Enter the storage block for the service records.

- SUPERVISION TYPE

Enter the storage block for the supervision records.

- OBSERVATION TYPE

Enter the storage block for the observation records.

BLOC N CHARACTERISTICS (0 TO 5)

- TOTAL SIZE

Enter the total size of the buffer (in Kbytes).

- SIZE IN FALLBACK MODE

Enter the size of the buffer in fallback mode (in Kbytes).

> **Note:** *The fallback size is the reduced size of the block, to enable software downloading.*

- FILLING RATE

Enter the saturation rate as a percentage.

- MANAGEMENT MODE

PERM. CONNECTION **NON PERM. CONNECTION**

Enter the block management mode.

- SATURATION THRESHOLD

Enter the saturation threshold as a percentage (by default, 75%).

DELETE ALL RECORDS

NO **YES**

If you select YES, all records are deleted.

> **Note:** *You must confirm the operation by entering the Installer password.*

3.9.2 RESET FLASH (MENU 3-9-2)

☞ For the Call Manager (F5): this menu is not available.

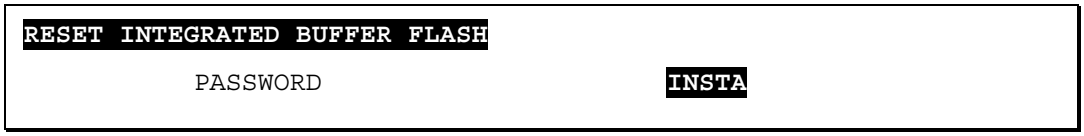


Figure 51: Reset flash

When you validate the password, a reset of the flash memory on the integrated buffer is activated: the message "Reset requested" appears.

4. OPERATION ADMINISTRATION (MENU 4)

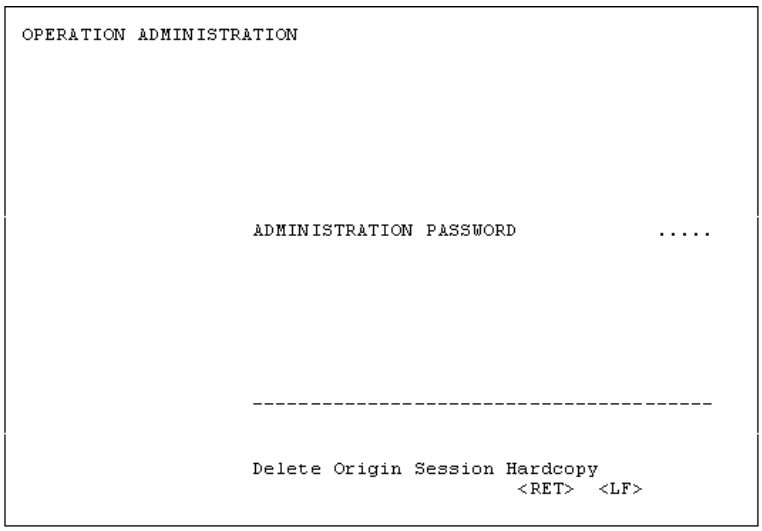


Figure 52: Administration password

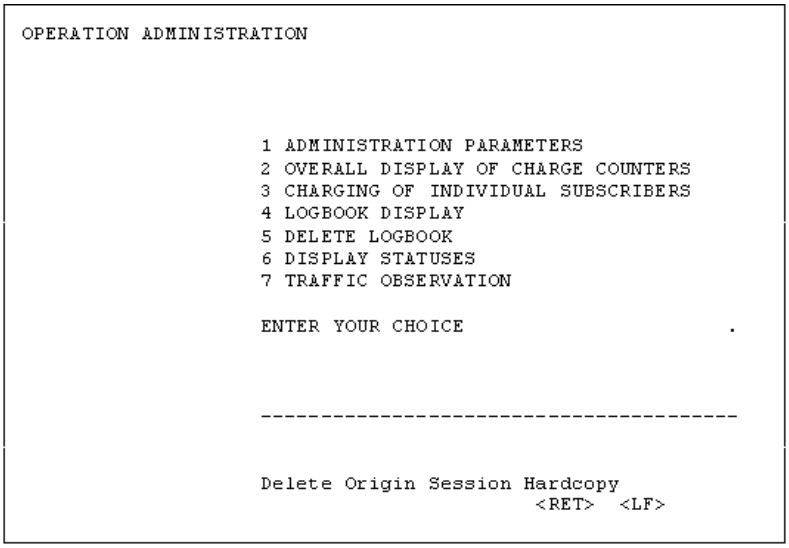


Figure 53: Menu 4 (Operation administration).

☞ For the Call Manager (F5): Menu 4 (Operation administration).

4.1 ADMINISTRATION PARAMETERS (MENU 4-1)

☞ For the Call Manager (F5): Menu 4-1 (Administration parameters).

```
ADMINISTRATION PARAMETERS
          ------ PRE-PAYMENT PARAMETERS -------
          IN CURRENCY UNIT
          - CREDIT AND CHARGE UNIT (ROUNDED)  1/10
          - CUMULATIVE SUM (ROUNDED OFF)      1
          No. OF DECIMALS DISPLAYED           2
          CHARGE UNIT PRICE                   0.00....
          . EURO/NATIONAL CURRENCY            6.55957.
          ---------- CHARGE RECORDS ---------
          USE OF FORMAT 4500                  NO
          STEP BY STEP DEFINITION             OUTPUT CHANNEL


          SITE NUMBER OVERRIDDEN IN RECORD      ...
          ----------------------------------------
```

Figure 54: Menu 4-1 (Administration parameters).

PREPAYMENT PARAMETERS IN CURRENCY UNIT

CREDIT AND CHARGE UNIT (ROUNDED)

1/10 **1** **10** **100** **1/100** **1/20**

Select the measuring scale before modifying the prepayment counters.

In countries where the monetary unit is divisible by 100, the unit charge can be expressed in hundredths (1/100), rounded off to 5 hundredths (1/20) or to 10 hundredths (1/10).

CUMULATIVE SUM (ROUNDED OFF)

1 **10** **100** **1/100** **1/20** **1/10**

Select the rounded off cumulative sums. For example, to round off to the nearest dollar, enter 1; to the nearest cent, enter 1/100 etc.

The cumulative prepayment instalments is displayed in menu 4-3: Charging of individual subscribers.

NO. OF DECIMALS DISPLAYED

Value between 0 and 4.

This field defines the display format for the various amounts, independently from the specified value to be rounded off to. You must check the consistency of your request. In the USA, for example, if the unit charge is rounded off to the nearest cent, 2 decimals must be displayed.

CHARGE UNIT PRICE

Enter in this field the price per charge unit.

If the value 1/100 is selected in the field "Credit and charge unit (rounded)", enter 0.75 to indicate a unit of 75 cents.

. EURO/NATIONAL CURRENCY CONVER.

The Euro value is given in 6 figures (7 characters with a decimal point).

CHARGE RECORDS

USE OF FORMAT 4500

NO **YES**

If you enter YES, the record format can either be printed or processed by SMDR.

STEP BY STEP DEFINITION

SMDR	on a single line in “format 4500”.
PRINTER	on several lines in “format 4500”.

The above parameters only appear if you have selected YES in the previous line.

OUTPUT CHANNEL	Billing data output is carried out on the CPU card serial port in «format 6500 ».
PAD LINK	If you are using PAD link, records are processed by an asynchronous link connected to the KITAXE or MUFACT server, in "format 6500".

CAUTION:

If the message "SMDR active" is displayed, set the parameters as follows:

----------Call records----------	
Step by step output	*NO*
----------Data records----------	
Output packet data	*NO*
Output circuit data	*NO*
----------Service record output----------	
Agenda/alarm family	*Loggbook*
Prepayment family	*Logbook*
……..	
Roaming family	*Logbook*
----------Monitoring records----------	
Step by step output	*NO*
----------Alarm management----------	
Generation of a service record	*NO*

Step by step definition	*OUTPUT CHANNEL*

PRINT HEADER

ZZ • 40 characters

PRINT FOOTER

• 40 characters

These fields are used to customise records on the printer for output in «format 4500».

The same fields can also be used in the case of an OXAL charge meter to note the ZZ synchronisation characters (only «format 4500» and step by step: «PRINTER» are visible).

The printed record is in the following form:

```
           BEACH HOTEL

  10:30  11/07/98      FROM  19:30  08/07
  PHONE 20             COST   25.50
                       COST (EURO)   3.92

     THANKS FOR YOUR VISIT PLEASE CALL AGAIN
```

The field displaying the cost in Euros is not featured if the Euro value is not assigned.

SITE NUMBER OVERRIDDEN IN RECORD

The site number overridden by the record.

```
ADMINISTRATION PARAMETERS

     --------- CALL RECORDS --------
     STEP BY STEP OUTPUT                 YES
     OUTPUT FORMAT                       EXTENDED FORMAT V1
     TRUNK IDENTIFIED BY                 CARD/CHANNEL
     TRUNCATE LAST 4 DIGITS              YES
     CALL TYPE                           INCOMING AND OUTGOING
     DELETE RECORDS W/OUT CHARGING       NO

     --------- DATA RECORDS -----------
     OUTPUT PACKET DATA                  NO

     OUTPUT CIRCUIT DATA                 NO


     ----------------------------------------
```

Figure 55: Administration parameters (continued)

CALL RECORDS

STEP BY STEP OUTPUT

NO **YES**

If you enter YES, all charged and non-charged call records (according to the parameter "delete records w/out charging") are output on the printer or on the PAD LINK, by means of the Kitaxe or Mufact call (with the sub-address for the PAD).

If you enter NO, the records are not printed out.

OUTPUT FORMAT

EXTENDED FORMAT V0 (112 characters) **EXTENDED FORMAT V1** (128 characters)

EXTENDED FORMAT V2 (210 characters) **EXTENDED FORMAT V3** (256 characters)

Enter the output format (V0, V1, V2, or V3).

TRUNK IDENTIFIED BY

CARD/CHANNEL **EQUIPMENT**

CARD/CHANNEL Number of the card and equipment channel.

EQUIPMENT NTL (logic terminal number): see menu 1-2-5 (Display trunks) for the number correspondence.

TRUNCATE LAST 4 DIGITS

NO **YES**

If you enter YES, the last 4 digits of the number dialled are masked.

CALL TYPE

INCOM. AND OUTGO. **INCOMING** **OUTGOING**

Which call records are print out in real time.

Real time (step by step) output must be validated.

INCOM. AND OUTGO. Incoming and outgoing calls are printed out.

INCOMING Incoming calls are printed out.

OUTGOING Outgoing calls are printed out.

DELETE RECORDS W/OUT CHARGING

NO **YES**

CAUTION: *If you select YES, incoming calls will also be deleted.*

DATA RECORDS

OUTPUT PACKET DATA

NO **YES**

Data record output is only available in format 6500 by means of the Kitaxe or Mufact call with the sub-address 10.

If you enter YES, the field "Output format" is displayed.

OUTPUT CIRCUIT DATA²

NO **YES**

Data record output is only available in format 6500 by means of the Kitaxe or Mufact call with the sub-address 20.

If you enter YES, the field "Output format" is displayed.

```
ADMINISTRATION PARAMETERS

          ------ SERVICE RECORD OUTPUT -------

          OUTPUT FORMAT             EXTENDED FORMAT V1
          AGENDA/ALARM FAMILY       LOGBOOK
          PREPAYMENT FAMILY         LOGBOOK
          MONITORING FAMILY         LOGBOOK
          FEATURE FAMILY            LOGBOOK
          C.DIST. FAMILY            LOGBOOK
          ROAMING FAMILY            STEP BY STEP
          TRUNK IDENTIFIED BY       CARD/CHANNEL

          ----------------------------------------
```

Figure 56: Administration parameters (continued)

SERVICE RECORD OUTPUT

OUTPUT FORMAT

EXTENDED FORMAT V0 (112 characters) **EXTENDED FORMAT V1** (128 characters)

Enter the output format (V0 or V1).

AGENDA/ALARM FAMILY

LOG BOOK	PROGRESSIVELY	STEP BY STEP AND LOG	DUMMY

LOG BOOK	Enables all wake-up services to be used as output from the logbook: wake-up programming, wake-up cancellation, wake-up, no answer to wake-up.
PROGRESSIVELY	Same function as described above with a link on the output channel or PAD, by means of the Kitaxe or Mufact call with the sub-address 30.
STEP BY STEP AND LOG	Same function as described above, with a link on the output channel or PAD by means of the Kitaxe or Mufact call with the sub-address 30.
DUMMY	Wake-up call data is not acknowledged by the PBX.

PREPAYMENT FAMILY

LOG BOOK	PROGRESSIVELY	STEP BY STEP AND LOG	DUMMY

Prepayment processing: credit, prepayment balance, end of current balance.

MONITORING FAMILY

LOG BOOK	PROGRESSIVELY	STEP BY STEP AND LOG	DUMMY

Message output when the TRACE key is pressed (nuisance call).

Message output for a long call (parameter 38 - Menu 1-7-2 – Miscellaneous Parameters).

FEATURE FAMILY

LOG BOOK	PROGRESSIVELY	STEP BY STEP AND LOG	DUMMY

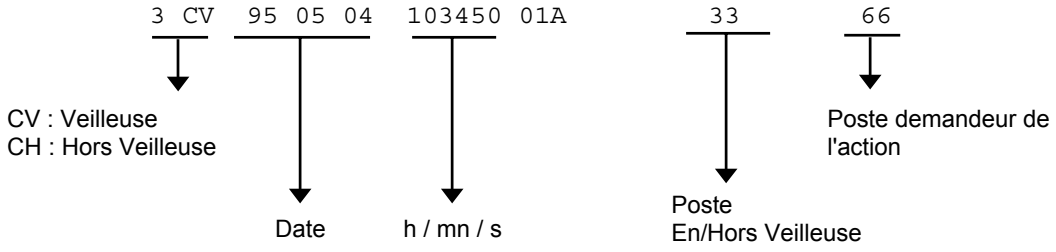
Indicator for validated or cancelled message in home automation function message lamp on set.

C.DIST. FAMILY

LOG BOOK	PROGRESSIVELY	STEP BY STEP AND LOG	DUMMY

Message output on the call distribution set in or out of service (or on a set in a hunt group).

Printout example:



ROAMING FAMILY

LOG BOOK	PROGRESSIVELY	STEP BY STEP AND LOG	DUMMY

Message output used for monitoring a mobile phone. The roaming record is a tool used to observe the operation of DECT terminals.

Printout example:

3 LL 960320184349 01 TO765432 C 123 S L CR LF 100 CR LF

3 = Service ticket
LL = Wireless service CDR - Roaming
TO = Subscriber
C = Cell
S = Status (roaming, G = Mislaid, P = Lost)

TRUNK IDENTIFIED BY

CARD/CHANNEL	EQUIPMENT

This field determines whether the record is printed with the circuit number or with the card and channel number.

```
ADMINISTRATION PARAMETERS

          -------- MONITORING RECORDS --------
          STEP BY STEP OUTPUT                 YES
          ---- SUBSCRIBER MANAGEMENT
          CALL TYPE           INCOMING AND OUTGOING
          ---- JUNCTOR MANAGEMENT
          TRUNK IDENTIFIED BY   CARD/CHANNEL
          CALL TYPE           INCOMING AND OUTGOING
          - "SELECTION" PHASE                 YES
          - "RINGING" PHASE                   YES
          - "SPEECH" PHASE                    YES
          - "RELEASE" PHASE                   YES

          -------- MONITORING TICKETS --------

          MONITORING TICKET GENERATION        NO

          ----------------------------------------
```

Figure 57: Administration parameters (continued)

MONITORING RECORDS

STEP BY STEP OUTPUT (IF SIMPLE OR EXTENDED FORMAT)

NO **YES**

Select YES to output monitoring records for subscribers and/or lines by means of the Kitaxe or Mufact server with the sub-address 40. This selection depends on the selections made in the following fields.

SUBSCRIBER MANAGEMENT

CALL TYPE

INCOM. AND OUTGO. **INCOMING** **OUTGOING**

Monitoring is possible according to the call type and for each subscriber.

To implement monitoring, validate the SUBSCRIBER MONITORING (RECORDS) line as YES in the menu: Extension characteristics.

JUNCTOR MANAGEMENT

TRUNK IDENTIFIED BY

See explanation above.

A record can be printed for each transition: Selection, Ringing, Conversation, Release. This field displays the transitions on a line or TS.

For each line or TS (menu 1-2-4), validate "Transitions monitoring" by entering YES.

OBSERVATION RECORDS

GENERATING OBSERVATION RECORDS

NO **YES**

YES validates output of a data observation ticket.

```
ADMINISTRATION PARAMETERS
          ------- ALARM MANAGEMENT ---------
          - GENERATION OF A SERVICE RECORD    NO
          - MONITOR TEL. EXTENSION            YES
          - REPORTED TO NUMBER                78669.
          - AND ACKNOWLEDGED BY CODE          ....
          - TO CENTRALIZING SITE              YES
          - SITE                              ........
          - SITE                              ........
          SNMP MANAGER IP ADDRESS  ..............

           X25 ADDRESS No 1    ..................

           X25 ADDRESS No 2    ..................

          ----------------------------------------
```

Figure 58: Administration parameters (continued)

ALARM MANAGEMENT

GENERATION OF A SERVICE TICKET

NO **YES**

Alarm record output on the printer or PAD is only possible in format 6500.

SUPERVISION ON TEL. EXT.

NO **YES**

This field is used to monitor alarms on the ATDC or digital set. The digital set must be declared as a maintenance set in Extension characteristics (menu 1-1-1). Alarm management must also be authorised in menu 1-7-2.

REPORTED TO NUMBER

Enter in this field the directory number of the local or remote set which is activated on reception of alarm signal (only the dry loop alarm).

AND ACKNOWLEDGED BY CODE

This is used to program the acknowledgement code indicating reception of an alarm by the internal or remote set.

TO CENTRALISING SITE (MULTI SITE OPERATION)

NO **YES**

Select YES to retransmit alarms to existing remote sites.

SITE

Enter the name(s) of the existing site(s).

SNMP MANAGER IP ADDRESS

Enter the SNMP manager IP address: field of 15 characters in standard format for an IP address, made up of 4 decimal values and separated by decimal points:

If the IP address is modified, a message is sent to the SNMP requesting information.

SNMP MANAGER CARD SLOT

This indicates in 2 characters (cabinet, card) the location of the PTx card which is forwarding alarms: this location is only displayed if the information indicated is not 0.

X25 ADDRESS NO. 1 AND NO. 2

Enter the X25 address number of the integrated buffer monitor.

- NUMBER OF ATTEMPTS

Enter the number of authorised attempts.

- DELAY BETWEEN ATTEMPTS

Enter in minutes the delay between two authorised attempts.

ALARM VALIDATION

```
ADMINISTRATION PARAMETERS

          ------- ALARM VALIDATION ---------

          DRY LOOP ALARM MANAGEMENT 0           NO
          - ALARM BEGIN. IF OPEN LOOP   YES
          DRY LOOP ALARM MANAGEMENT 1           NO
          - ALARM BEGIN. IF OPEN LOOP   NO
          DRY LOOP ALARM MANAGEMENT 2           NO
          DRY LOOP ALARM MANAGEMENT 3           NO
          RECORD PARKED EXTENSIONS IN LOGBOOK   YES
          LOGBOOK OUTPUT ON PRINTER             NO


          ----------------------------------------
```

Figure 59: Administration parameters (continued - alarm validation on F6)

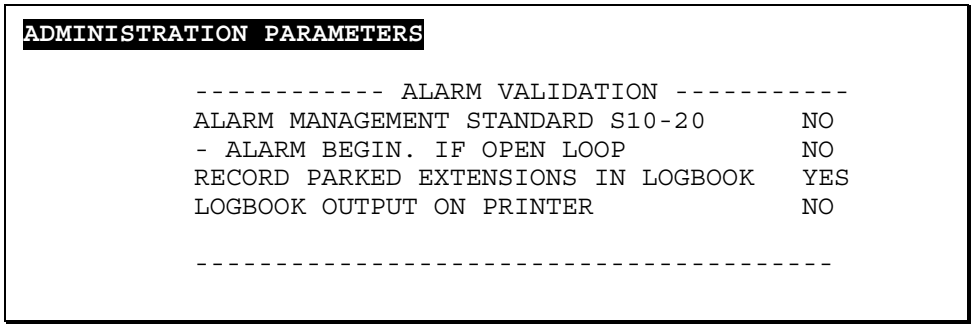


Figure 60: Administration parameters (continued - alarm validation on F1)

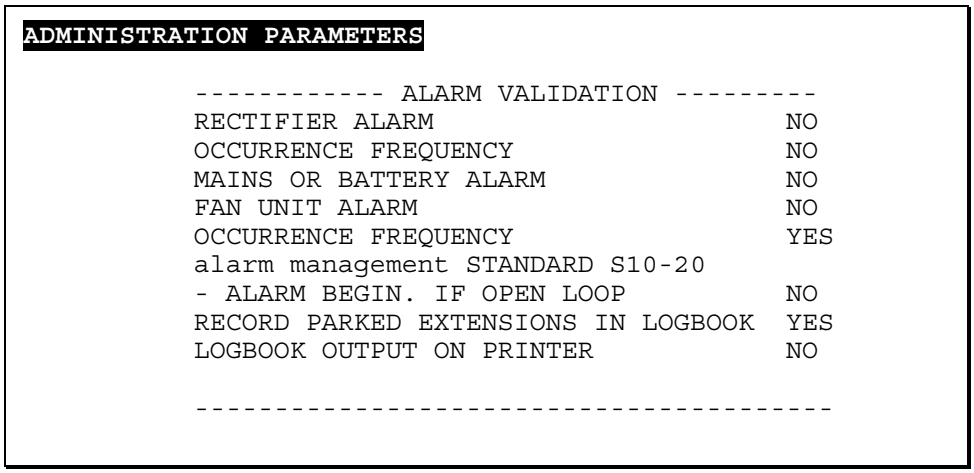


Figure 61: Administration parameters (continued - alarm validation on F2)

RECTIFIER ALARM (F2)

NO **YES**

If you enter YES, logbook and printer output: the mains is connected but there is a rectifier malfunction.

OCCURRENCE FREQUENCY (F2)

Alarm output frequency: minimum 30 minutes, maximum 240 minutes.

MAINS OR BATTERY ALARM (F2)

NO **YES**

If you enter YES, logbook and printer output: this indicates a switch from MAINS to BATTERY power.

FAN UNIT ALARM (F2)

NO **YES**

If you enter YES, logbook and printer output: this indicates that the fans are stopped.

OCCURRENCE FREQUENCY (F2)

Alarm output frequency: minimum 30 minutes, maximum 240 minutes.

ALARM MANAGEMENT STANDARD S10-20 (F1 AND F2)

NO **YES**

If you enter YES, an alarm is set off when 50% of the external trunk lines in service are faulty.

DRY LOOP ALARM MANAGEMENT NO. (F6)

NO **YES**

If you enter YES, an alarm is set off when 50% of the external trunk lines in service are faulty.

Note: *You can generate 4 dry loops on F6.*

- ALARM BEGIN. IF OPEN LOOP

NO **YES**

IMPORTANT: *This line is only displayed if the "Dry loop alarm management" field (for F6) or the "Alarm management standard S10-S20" field (for F1/F2) is set to YES.*

This line is used to configure the alarm direction. On F6, there are 4 "dry loop" relays that can return an alarm (a "dry loop" on F1 and F2). The nature of the alarms varies and depends on the physical connection made to these relays: a connection may start an alarm when the loop is closed and stop the alarm when the loop is opened. Select YES so that an alarm starts when the loop is opened (and stops when the loop is closed) and select NO so that an alarm starts when the loop is closed (and stops when the loop is opened).

RECORD PARKED EXTENSIONS IN LOGBOOK

NO **YES**

If you enter YES, parked sets are recorded in the logbook; if you enter NO, there in no logbook output.

LOGBOOK OUTPUT ON PRINTER

NO **YES**

Select YES to obtain step by step logbook output on a printer.

Note: *Since the logbook is of a limited size, it is recommended not to congest it with messages which simply show that digital sets are not connected to a card (sub-equipping).*

4.2 OVERALL DISPLAY OF CHARGE COUNTERS (MENU 4-2)

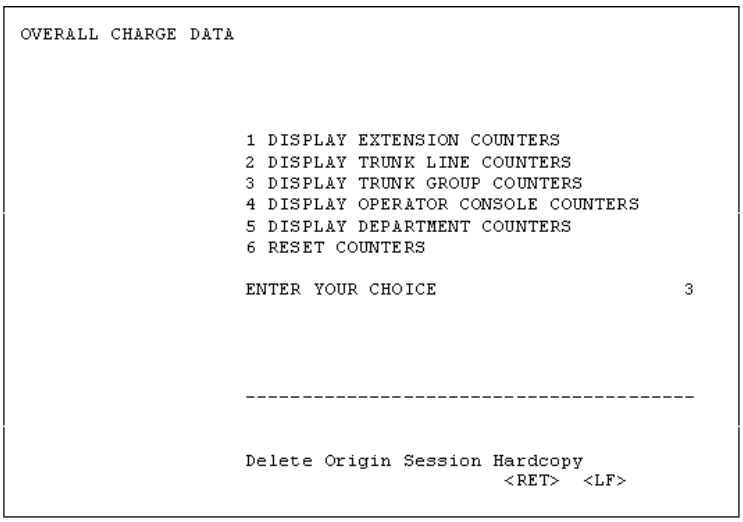


Figure 62: Menu 4-2 (Overall charge data)

☞ For the Call Manager (F5): Menu 4-2 (Overall display of charge counters). Levels 2 (Display trunk line counters),
3 (Display trunk group counters), and
4 (Display operator console counters) are not available.

Note: *The service counters can only be displayed in multi-company configuration.*

4.2.1 DISPLAY EXTENSION COUNTERS (MENU 4-2-1)

☞ For the Call Manager (F5): Menu 4-2-1 (Display extension counters).

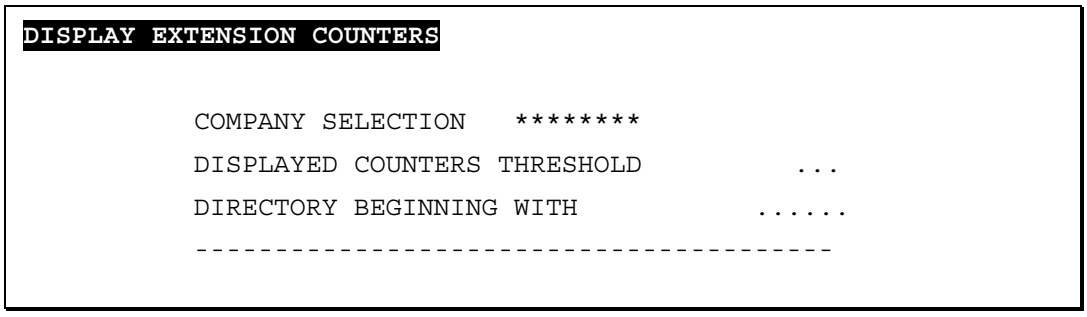


Figure 63: Display extension meters

COMPANY SELECTION

xxxxxxxx **CMPNY.0**

This field only appears if the multi-company configuration is selected.

Select **xxxxxxx** to display the extension counters for all companies and departments. If you have already created company names, these are displayed here.

DISPLAYED COUNTERS THRESHOLD

Counter threshold number: the threshold criterion is used to display extension counters equal to or greater than the entered threshold value.

DIRECTORY BEGINNING WITH

Enter a digit (or number). All directory numbers that start with this digit (or number) will be displayed.

EXTEN. COUNTERS

DN	SUBSC. NAME	SINCE	CU
74021	FORRAINE C	00/00	0
74050		06/01	0
74070		00/00	0
74080	GENERAL PURPOSE JP	00/00	0
74095		00/00	0
74096		00/00	0
74261	LOUIS V	00/00	10
74640	BOUDARD T	00/00	4
74669	MARTIN B	00/00	57
INCOMPLETE DISPLAY			1000/2000
10 USERS	CUMULATED CU	71	

Figure 64: Extension counters

EXTEN. COUNTERS

This screen displays all the counters for all the extensions connected to the PBX. You cannot modify this information.

As of release 2.1 it is possible to display 1456 subscribers on a Call Manager (F5).

The table shows:

- the directory number
- the subscriber number
- the date of the last reset of the charge counter (DAY/MONTH)
- the number of CUs (Charge Units)
- the number of extensions connected to the PBX
- the total number of CUs for all extensions

Note: *The "Incomplete display" line is an information line indicating that a certain number of subscribers are not displayed (display menu limited to 1000 lines).*

All directory numbers are in this list, including secondary numbers for multi-line sets and ISDN sets on S0 bus.

4.2.2 DISPLAY TRUNK LINE COUNTERS (MENU 4-2-2)

☞ For the Call Manager (F5): this menu is not available.

```
DISPLAY TRUNK LINE COUNTERS

          DISPLAYED COUNTERS THRESHOLD    10.


          FIRST PHYSICAL EQUIPMENT            00101

          ----------------------------------------
```

DISPLAYED COUNTERS THRESHOLD

Counter threshold number: the threshold criterion is used to display trunk line counters equal to or greater than the entered threshold value.

FIRST PHYSICAL EQUIPMENT

The trunk line counters are displayed starting with the first position indicated.

```
DISPLAY TRUNK LINE COUNTERS
                    EQT-ACCES    TRUNK.     SINCE        CU
                    ----------------------------------------
                    0-01-01:002 BRI.TG      09/01        269
                    0-01-01:018 BRI.TG      09/01          2
                    0-C4-01:033 PRI.TG      00/00         29
                    0-C4-02:034 PRI.TG      00/00         33
                    0-C4-03:035 PRI.TG      00/00         33
                    0-C4-04:036 PRI.TG      00/00         33
                    0-C4-05:037 PRI.TG      00/00         33
                    0-C4-06:038 PRI.TG      00/00         34
                    0-C4-07:039 PRI.TG      00/00         33
                    0-C4-08:040 PRI.TG      00/00         30
                    0-C4-09:041 PRI.TG      00/00         34
                    0-C4-10:042 PRI.TG      00/00         28
                    0-C4-11:043 PRI.TG      00/00         30
                    0-C4-12:044 PRI.TG      00/00         32
                    ----------------------------------------


                           Origin Session Hardcopy
                    Begin More
```

Figure 65: Display of trunk line counters (F2)

This screen displays all trunk lines (analogue, ISDN, and PCM) connected to the PBX. You cannot modify this information.

This screen shows:

- the equipment location and access
- the trunk group to which the external trunk line belongs
- the date of the last reset of the charge counter (DAY/MONTH)
- the number of CUs (Charge Units)

4.2.3 DISPLAY TRUNK GROUP COUNTERS (MENU 4-2-3)

☞ For the Call Manager (F5): this menu is not available.

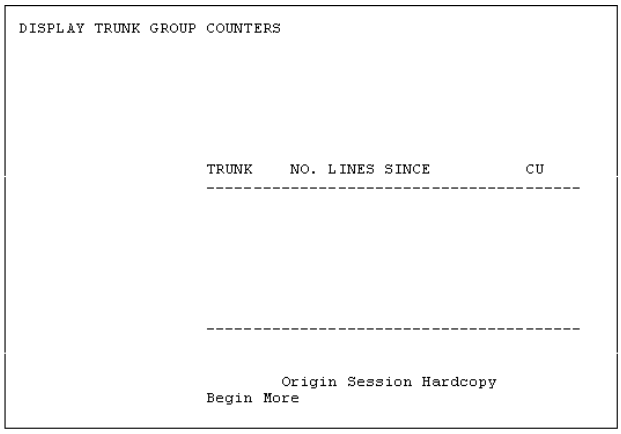


Figure 66: Display of trunk group counters (F2)

This screen displays all trunk groups declared in the PBX. You cannot modify this information.

This screen shows:

- the trunk group name
- the number of lines,
- the date of the last reset of the charge counter (DAY/MONTH)
- the number of CUs (Charge Units)

4.2.4 DISPLAY OPERATOR CONSOLE COUNTERS (MENU 4-2-4)

☞ For the Call Manager (F5): this menu is not available.

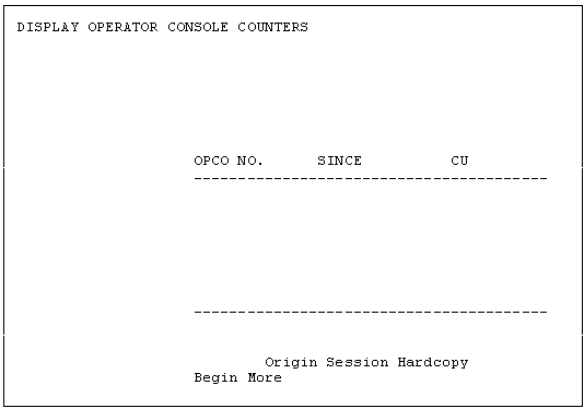


Figure 67: Display operator console counters

This screen displays the counters of the operator consoles declared in the PBX. You cannot modify this information.

This screen shows:

- the operator console directory number
- the date of the last reset of the charge counter (DAY/MONTH)
- the number of CUs (Charge Units)

4.2.5 DISPLAY DEPARTMENT COUNTERS (MENU 4-2-5)

☞ For the Call Manager (F5): Menu 4-2-2 (Display department counters).

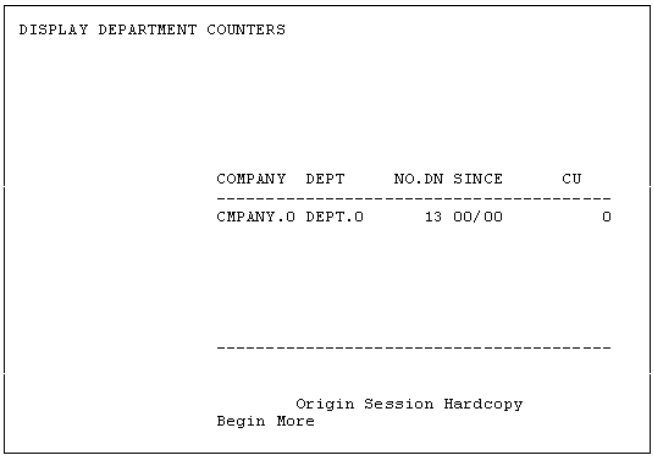


Figure 68: Display department counters

This screen displays all counters by company/department pair declared in the PBX. You cannot modify this information.

The table shows:

- the company name
- the department name, or •••••••••• for "all other departments"
- the number of extensions in the department
- the date of the last reset of the charge counter (DAY/MONTH)
- the number of CUs (Charge Units)

Note: *The department counters can only be displayed in multi-company configuration.*

4.2.6 RESET COUNTERS (MENU 4-2-6)

☞ For the Call Manager (F5): Menu 4-2-3 (Reset counters).

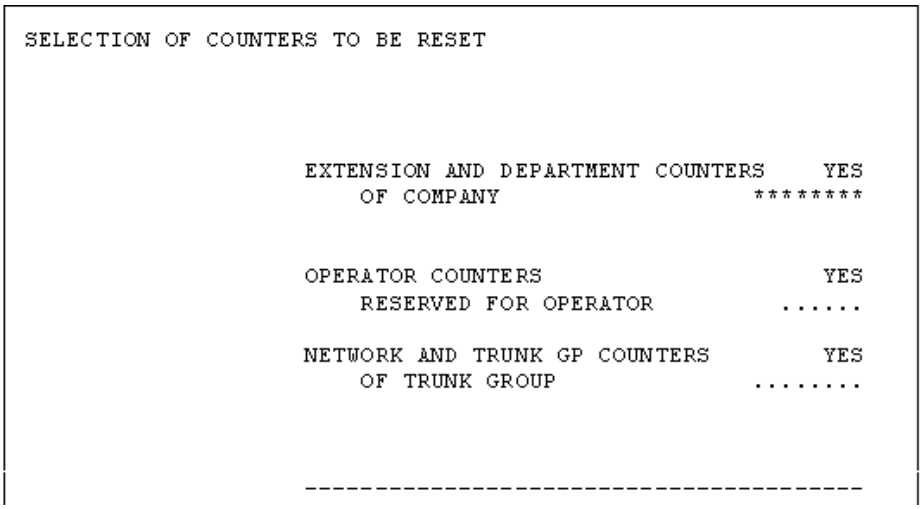


Figure 69: Selection of counters to be reset

There are 3 types of counters which can be reset:

- extension and department counters: of company
- operator counters: reserved for operator
- network and trunk GP counters: of trunk group

You can also select the extension and department counters associated with company x, the operator counters reserved for operator y, and the network counters of trunk group z.

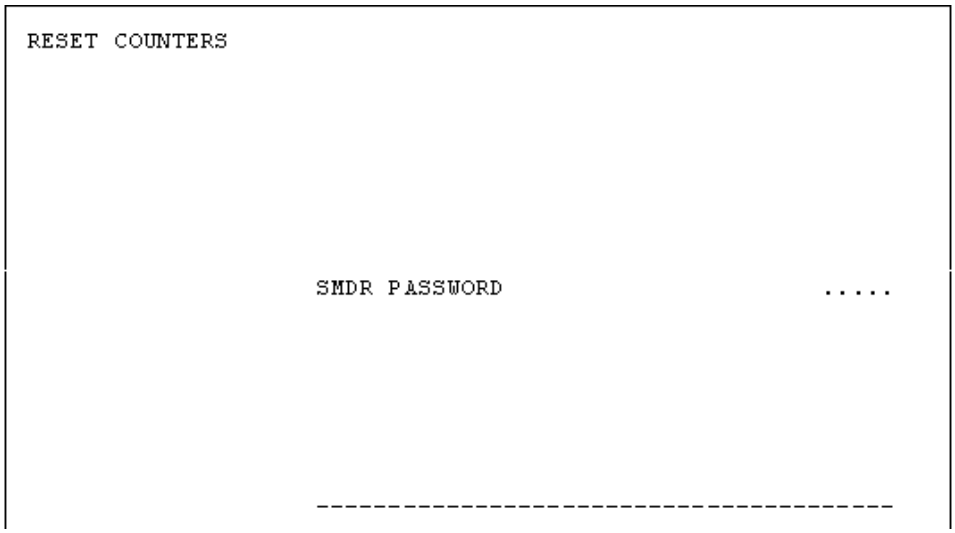


Figure 70: Reset counter password

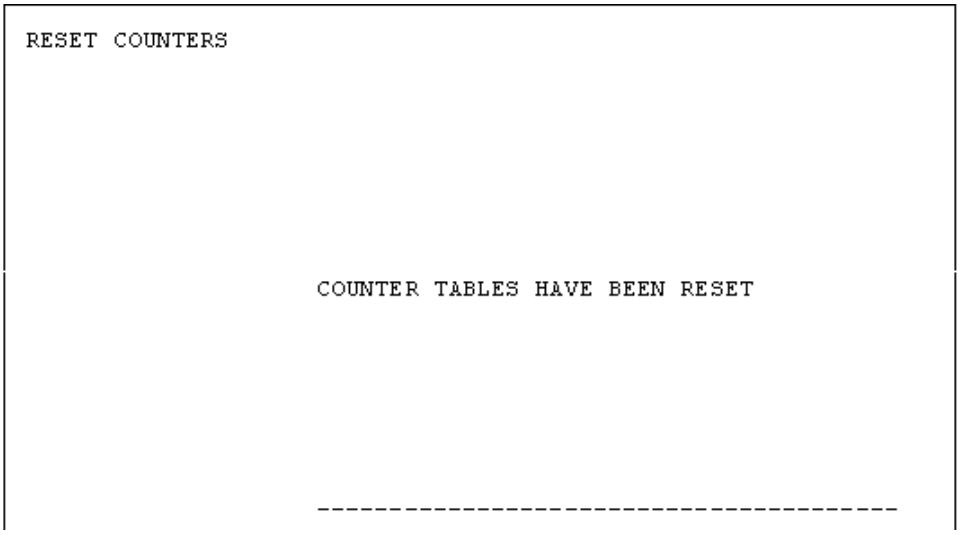


Figure 71: Message indicating that the counters have been reset

4.3 CHARGING OF INDIVIDUAL SUBSCRIBERS (MENU 4-3)

☞ For the Call Manager (F5): Menu 4-3 (Charging of individual subscribers).

```
DIRECTORY NUMBER SELECTION




                    DIRECTORY NUMBER                  ......




                    ----------------------------------------

                    Delete Guide Origin Session Hardcopy
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 72: Menu 4-3 (Directory number selection)

DIRECTORY NUMBER

The extension is accessed by its directory number.

When you validate this number the following screen is displayed:

```
CHARGING SUBSCRIBER 28



                    PREPAYMENT
                    EXTENSION WITH PREPAYMENT              NO
                    EXTENSION WITH MULTI-CHARGING          NO
                    ACCOUNT CLOSED                        YES
                    BALANCE                        0.00......
                    CUMULATED INSTALMENTS          0.00......
                    AMOUNT TO PAY                  ..........

                    DATE OF LAST RESET            01/01 00:00
                    COUNTER VALUE                           0
                    COUNTER RESET                          NO


                    ----------------------------------------

                    Next Previous Repeat Listing Find
                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
```

Figure 73: Charging subscriber 28

PREPAYMENT

EXTENSION WITH PREPAYMENT

NO **YES**

If you enter YES, the set will have the prepayment feature. In this case, a credit allowance can be assigned to it: this credit allowance is reduced as each charge unit is recorded (call limitation).

If you enter NO, the set will not have the prepayment feature: it is not, therefore, affected by a credit sum (no call limitation).

EXTENSION WITH MULTI-CHARGING

NO **YES**

Enter YES for multi-user extensions: users must then enter their password for outgoing calls.

ACCOUNT CLOSED

NO **YES**

If you enter YES, the account corresponding to the set is closed.

If you enter NO, the account corresponding to the set is in credit.

Note: *A closed account can be set to NO even if the account has been credited. In this case, the lines BALANCE and CUMULATED INSTALMENTS are reset (for a customer wishing to settle his bill).*

BALANCE

This field is reset when an amount is displayed on the line AMOUNT TO PAY: this balance is reduced as calls are made.

CUMULATED INSTALMENTS

This field gives the total of the amounts displayed on the line AMOUNT TO PAY.

AMOUNT TO PAY

Enter the amount (maximum 4 digits) of credit the set is allowed. After validating, the amount is displayed in "Balance": the "Account Closed" field changes to NO.

DATE OF LAST RESET

This field indicates the date (dd/mm) and time (hh/mm) of the last reset of extension counter.

COUNTER VALUE

This field indicates the total number of CUs (Charge Units) recorded for the extension.

COUNTER RESET

NO **YES**

If you enter NO, the counter is not reset.

If you enter YES, the counter is reset (total number of CUs recorded).

Note: *If the prepayment feature is used, the PBX requests the ISDN network to continually retransmit charge units. The calls made are increased by one charge unit, corresponding to activation of this service (unless this service is part of the subscription).*

By default, when the user's balance falls below n currency units during a call, 3 beeps are emitted every 7 seconds to warn the user that the call will soon be cut off (see parameter 9 in table 56).

The prepayment feature is not used with ISDN sets.

4.4 LOGBOOK DISPLAY (MENU 4-4)

☞ For the Call Manager (F5): Menu 4-4 (Logbook display).

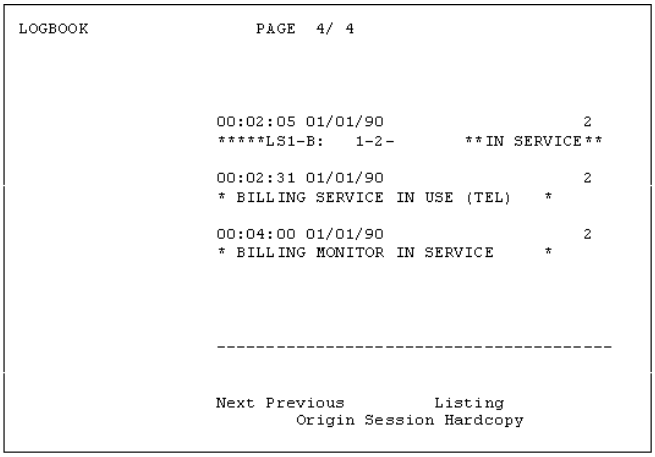


Figure 74: Menu 4-4 (Logbook)

The logbook is used to display information about PBX operations. The logbook can store up to 80 lines of information on 8 to 20 pages, according to page content.

The logbook indicates hardware and software errors and faults:

- hardware data can be interpreted by the user
- software data is interpreted by the manufacturer

The logbook can also display service records:

- agenda/alarm family
- prepayment family
- monitoring family
- feature family
- C.Dist family
- alarms

The logbook displays the most recent recorded messages first: the title indicates the page number displayed and the total number of pages in the log.

The key N (next page) and P (previous page) are used to navigate in the logbook:

Position the cursor on the first page and use the "Listing" command to print the whole logbook.

Use the "Hardcopy" command to print the current page.

Note: *When the logbook is saturated (i.e. when the number of messages in the logbook mailbox reaches 40), the logbook switches over to "congestion" mode, which means that the reception of all the messages is no longer guaranteed (some messages may be deleted). The message "Logbook: congestion" is displayed in the logbook. When the logbook returns to normal mode, the message "Logbook: normal lost: xx" appears, specifying the number of messages deleted during the congestion phase.*

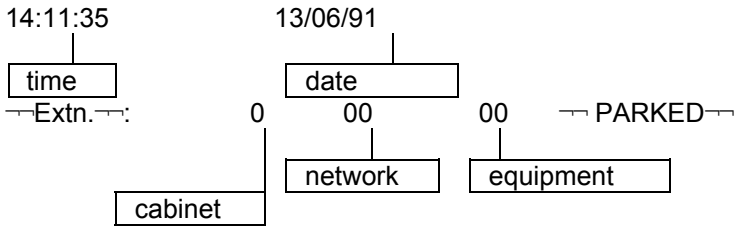
Example of a logbook display: **

```
LOGBOOK                PAGE  1/ 4
                    17:52:43 04/01/90
                    ******MSGV:   4-3        **EN SERVICE**

                    17:53:19 04/01/90
                    **DSP*POCZ:   4-         **EN SERVICE**

                    17:54:05 04/01/90
                    *******CCS:   4-4        **SOUS OPER.**

                    17:54:06 04/01/90
                    ******MSGV:   4-3        **SOUS OPER.**

                    17:54:40 04/01/90
                    *******CCS:   4-4        **EN SERVICE**
JOURNAL DE BORD         PAGE  2/ 4
                   17:54:41 04/01/90
                   ******MSGV:   4-3        **EN SERVICE**

                   17:54:44 04/01/90
                   *******CCS:   4-4        **SOUS OPER.**

                   17:54:44 04/01/90
                   ******MSGV:   4-3        **SOUS OPER.**

                   17:55:16 04/01/90
                   **DSP*POCZ:   4-         **EN SERVICE**

                   17:59:28 04/01/90
                   *******CCS:   4-4        **EN SERVICE**
JOURNAL DE BORD         PAGE  3/ 4
                    17:59:28 04/01/90
                    ******MSGV:   4-3        **EN SERVICE**

                    23:58:28 06/01/90
                                          DEP.CAPACITE

                    23:58:40 06/01/90
                    *       SERVICE NORMAL           *

                    23:58:44 06/01/90
                    ********Uc:    I5        **EN SERVICE**

                    23:58 06/01/90 DEMARRAGE:INI STANDARD

                    23:59:24 06/01/90
                    **DSP*POCZ:   4-         **EN SERVICE**
JOURNAL DE BORD         PAGE  4/ 4

                    00:00:34 07/01/90
                    **DSP*POCZ:   4-         **EN SERVICE**

                    00:27:44 07/01/90
                    FCT: ......           DEVERROUILLEE

                    00:28:55 07/01/90
                    ANNTIA : Serveur TIS en service
                    S=01 G=02 GRP
```

4.4.1 HARDWARE EVENTS RECORDED IN THE LOGBOOK

1. Total reset, indication that the LAS card has been recognised correctly, indication of a PARKED extension (digital set not connected to PBX).
2. PBX time reset after an auto reset.
3. Analogue set switched to permanent off hook position (PARKED) and end of line lockout (PARK END).
4. Card switched to faulty state following removal with power on, or a card problem.
5. Wake-up appointment reminder report. (Not shown in diagram above).
6. Card set to faulty status if it is removed from cabinet while the system is powered on, or if there is a problem on the card. (Not shown in diagram above).

Example of item 3 for an MC 6504 logbook display:



EVENT	DIAGNOSTIC
02:58: 02/01/90 ERASE LOG 02:58:19 02/01/90 ¬¬¬ ERROR: 3E00 ¬¬¬¬¬¬¬¬¬ T0: 0-02-01 0000 0000 0000	**T0 ALARM** T0 (BRI) put in service on a DNT that is not active or not connected
02:58:55 02/01/90 ¬¬¬¬¬¬¬¬ T0: OCW ¬ ALARM START ¬ 03:02:59 02/01/90 ¬¬¬¬¬¬¬¬ T0: OCW ¬ ALARM END ¬	**T0 ALARM** Link cut-off during conversation re-established. Bad electrical connection check contacts

CF	Clock loss	**RM**	Sync loss
ER	Error date	**AIS**	Alarm indicator signal
RAI	Remote alarm indicator	**FA**	Remote frame alarm
LFA	Frame lock loss		

4.4.2 LOGICAL SECURITY BLOCKS

Automatic system maintenance sees the configuration as a set of hierarchically arranged logical security blocks (LSB). When there is a malfunction this arrangement enables the system to identify the faulty element and take the appropriate action: when an error is detected, automatic maintenance can take fail safe action. This involves changing the status of the security block that covers the defective hardware element.

Example: ******LA8 :0, 0, .. ** EN FAUTE **

The fail-safe action report is recorded in the logbook and contains the following information:

- the type of security block that changed status
- the security block number
- new security block status

4.4.2.1 LIST OF SECURITY BLOCK STATUSES

The security block statuses have the following meaning:

NOT EQUIP. The LSB is not defined in the associated configuration table.

OUT OF SRV The LSB is inaccessible by the software and cannot take part in network operations. This occurs, for example, when the LSB one step up in the hierarchy is faulty.

This status is also the initial status of all LSBs before startup.

DOWNLOAD The processor associated with the LSB is being downloaded.

IN SERVICE The LSB is working.

FAULTY One of the LSB functions is defective. The LSB is removed from normal operation by automatic maintenance.

DISABLED The maintenance operator has withdrawn the LSB from normal operation using an operator command.

Other special statuses:

PARKED The telephone subscriber has not gone on-hook (permanent off-hook condition).

4.5 DELETE LOGBOOK (MENU 4-5)

☞ For the Call Manager (F5): Menu 4-5 (Delete logbook).

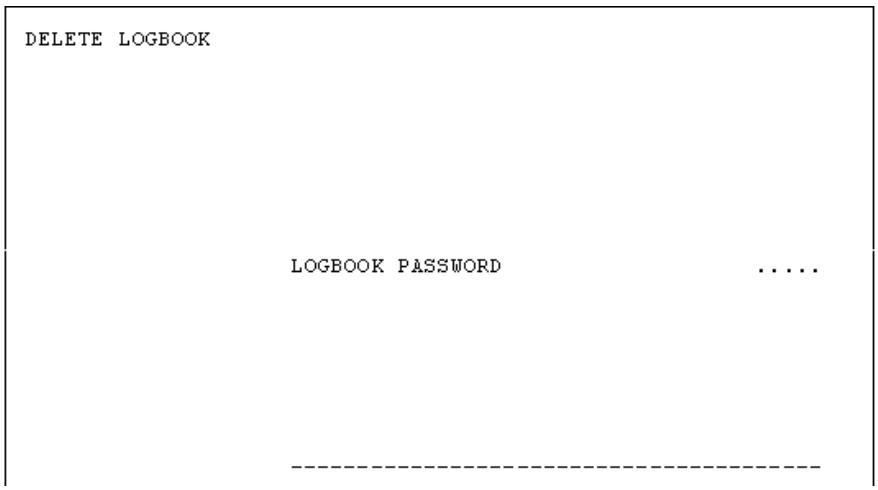


Figure 75: Password for deleting the logbook

LOGBOOK PASSWORD

Enter the password.

When you validate this password, the logbook is deleted and reset to zero.

When the operation is complete, the following screen is displayed:

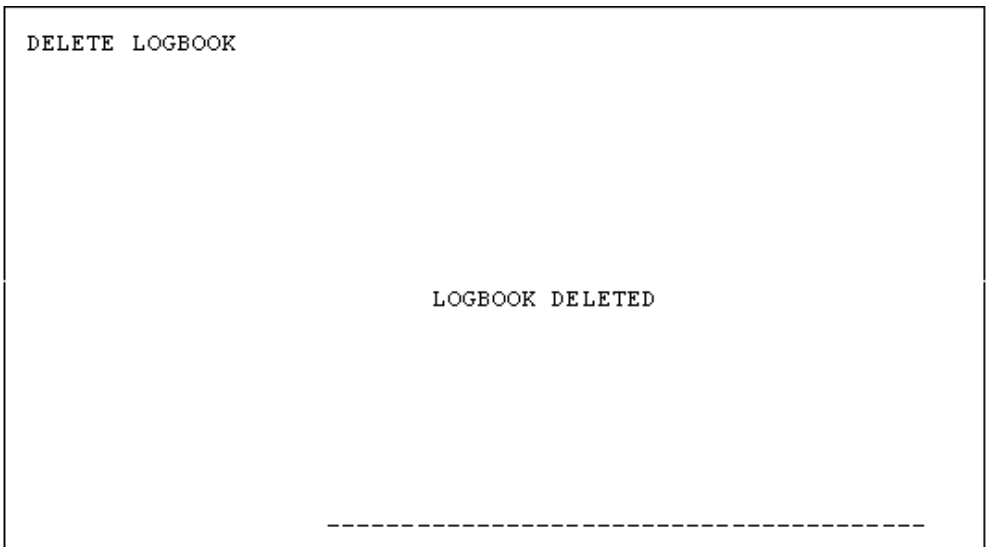


Figure 76: Delete logbook

4.6 DISPLAY STATUSES (MENU 4-6)

```
DISPLAY STATUSES

          1 STATUS OF EXTENSIONS
          2 STATUS OF EXTERNAL TRUNKS
          3 STATUS OF DYNAMIC TRUNK GROUPS
          4 STATUS OF DATA LINKS
          5 MAINTENANCE STATUS
          6 ROAMING STATUS OF MOBILES
          7 FILLING STATUS OF TABLES
          8 STATUS OF CONNECTIONS TCP TUNNEL
          9 STATUS OF INTEGRATED VOICE BOXES
          ENTER YOUR CHOICE                  .
          ---------------------------------------------
```

Figure 77: Menu 4-6 (Display statuses).

☞ For the Call Manager (F5): Menu 4-6 (Display statuses). Levels 2 (Status of external trunks), 3 (Status f dynamic trunk groups), and 9 (Status of integrated voice boxes) are not available.

Note: *The status of the integrated voice mailboxes is only available on M6501 IP PBX and XL/XS/XC.*

4.6.1 STATUS OF EXTENSIONS (MENU 4-6-1)

☞ For the Call Manager (F5): Menu 4-6-1 (Status of extensions).

```
STATUS OF EXTENSIONS

          1 STATUS OF EXTENSIONS
          2 IP SUBSCRIBERS STATUS

          ENTER YOUR CHOICE                    .
          ---------------------------------------------
```

Figure 78: Status of extensions

4.6.1.1 STATUS OF EXTENSIONS (MENU 4-6-1-1)

☞ For the Call Manager (F5): Menu 4-6-1-1 (Status of extensions)

```
SELECTION OF A STATUS TO MONITOR

          SEARCH STATUS                  ANY

          DIRECTORY BEGINNING WITH            7.......

          ---------------------------------------------
```

Figure 79: Selection of a status to monitor

SEARCH STATUS

ANY	FREE	PERMNT.	BUSY UNSTABLE	PERM OFF-HOOK COND.
OUT OF SERVICE	RECORD WAITING	DISCONNECT		

Press the space bar until the status you require is displayed. When you validate your selection the user interface displays the list of extensions in the selected status. The following information is given for each extension: DN, equipment number; type, and status.

ANY	To display a list of all extensions and their current status.
FREE	To display a list of all extensions in service and free.
PERMNT.	To display a list of all extensions currently in the conversation phase.
BUSY UNSTABLE	To display a list of all extensions currently setting up a call.
PERM OFF-HOOK COND.	To display a list of analogue sets off hook and digital sets not connected.
OUT OF SERVICE	To display a list of all extensions put in service by an MMC.
RECORD WAITING	To display a list of all extensions waiting to be registered.
DISCONNECT	To display a list of all the sets or extensions not located

DIRECTORY BEGINNING WITH

Enter a digit (or number). All sets with directory numbers that start with this digit (or number) will be displayed.

Example 1: On an F1, display of extensions in any status, with no particular conditions as to the directory number.

```
EXTENSIONS (ANY STATUS)

            NO.    EQT NO TYPE         STATUS

            ---------------------------------------
            20     0-1-00 SET N        PERM. OFF-HOOK COND.
            21     0-1-01 510          FREE
            22     0-1-02 510          FREE
            23     0-1-03 610          FREE
            24     0-1-04 610          FREE
            25     0-1-05 SET N        PERM. OFF-HOOK COND.
            26     0-1-06 7609         FREE
            27     0-1-07 SET N        PERM. OFF-HOOK COND.
            28     0-7-00 510          FREE
            29     0-7-01 SET N        PERM. OFF-HOOK COND.
            30     0-7-02 SET N        PERM. OFF-HOOK COND.
            31     0-7-03 SET N        PERM. OFF-HOOK COND.
            INCOMPLETE DISPLAY                 1000/2000

            ---------------------------------------
```

Figure 80: Display extensions (F1) (any status)

Example 2: On an F6, display of extensions in any status with a directory number beginning with 7.

```
EXTENSIONS (ANY STATUS)

            NO.       EQT NO TYPE       STATUS
            ---------------------------------------
            74042      IP DS            FREE
            74050      STANDAR          FREE
            74070      STANDAR          FREE
            74090      SET B            FREE
            74095      1-06-14 730      FREE
            74096      1-06-15 610      FREE
            77020      0-06-02 INT MSG. FREE
            77261      1-06-00 760+ 70  FREE
            77640      1-06-02 SET N PERM. OFF-HOOK COND.
            78669      1-06-01 520N     FREE

            ---------------------------------------
```

Figure 81: Display extensions (F6) (any status)

Note: *The "Incomplete display" line is an information line indicating that a certain number of subscribers are not displayed (display menu limited to 1000 lines).*

As of release 2.1 it is possible to display 1024 subscribers on a Call Manager (F5).

4.6.1.2 IP SUBSCRIBERS STATUS (MENU 4-6-1-2)

☞ For the Call Manager (F5): Menu 4-6-1-2 (IP subscribers status)

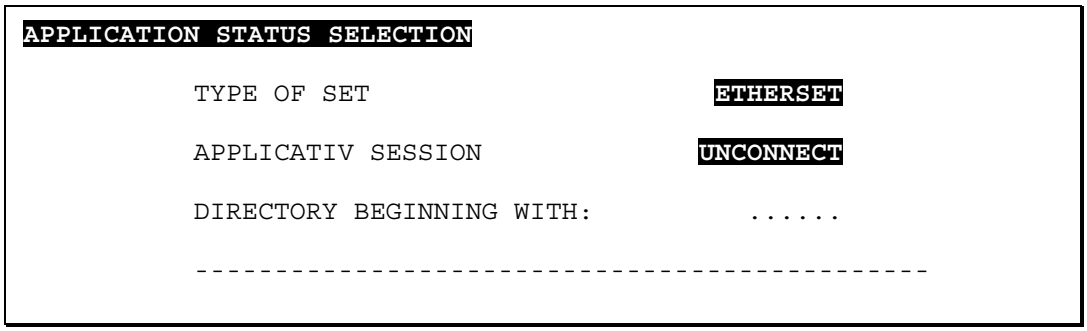


Figure 82: IP subscribers status - selection

This menu is used to display all IP sets declared on the site on the basis of several criteria (type of set, status of set's applicative session, directory number).

TYPE OF SET

IP DS	TDPC	ETHERSET	……..

Select the type of IP set you want. Only those IP sets of the type selected declared on the site will be displayed. To display all the IP sets (IP DS, TD PC and ETHERSET) declared on the site, select "……..".

APPLICATIV SESSION

CONNECT.	UNCONNECT.	……..

Select the status of the set's applicative session. Sets whose applicative session status is the same as the status selected will be displayed. To display all sessions, select "……..".

DIRECTORY BEGINNING WITH

Enter a digit (or number). All IP sets declared on the site with directory numbers that start with this digit (or number) will be displayed.

When you have selected the search criteria, press Enter to confirm. Two examples of IP set display are given below:

Example 1:

```
SUBSCRIBERS ........NOT CONNECT. STATUS

          DN          TYPE        SESSION           CAC
                      COMPLEMENTARY INFORMATIONS
          ---------------------------------------------

          23          TDPC        UNCONNECT.        01-0

          57          ETHERSET    UNCONNECT.        01-1

          ---------------------------------------------
          Lines of complementary information:
          L1: Site          Cluster          CLX board no.
          L2: IP address    Port RTP         Location nb
          Begin More
```

Figure 83: IP subscribers status - display non-connected applicative sessions

Example 2:

```
SUBSCRIBERS ........CONNECT. STATUS

          DN    MODEL       SESSION           CAC
                COMPLEMENTARY INFORMATIONS
          ------------------------------------------------

          22    7808              CONNECT.          01-2
                001-SITE LOC  02  (0-00)
                131.129.11.124 : 40000

          24    ETHERSET          CONNECT.          ........
                003-SITE 3    02    (01)
                131.129.13.62 : 40000

          ------------------------------------------------
          Lines of complementary information:
          L1: Site          Cluster          CLX board no.
          L2: IP address    Port RTP         Location nb
          Begin More
```

Figure 84: IP subscribers status - display connected applicative sessions

DN

Shows the directory number of the IP sets matching the search criteria.

Note: *For a multi-line subscriber, only the main directory number is displayed.*

MODEL

Shows the type of IP set. For an IP DS set, gives the model of the set connected.

SESSION

Shows the status of the set's applicative session.

CAC

Shows the CAC center number (the center containing the main CAC server) and class number of the IP set.

When the search criteria concern applicative sessions other than non-connected sessions, the following complementary information is given.

SITE

Shows the site where the IP signalling point is located.

CLUSTER

Shows the cluster where the IP signalling point is located.

CLX BOARD NO.

Shows the card where the IP signalling point is located. If the IP signalling point is located in the same site as the card, this number is decoded. In this way the card's equipment number is obtained (cabinet-card). Otherwise it is not possible to decode the number as it is displayed.

PROC NB (CLX BOARD)

Shows the processor number of the card where the IP signalling point is located.

Using the processor number, if the IP signalling point is located on the local site, the MMC will decode the processor number on the card slot (cabinet – card) in order to make this processor number easily comprehensible. Otherwise, the processor number cannot be decoded.

IP ADDRESS

Shows the set's IP address.

PORT RTP

Shows the set's RTP port number.

LOCATION NB

Note: *This menu is only displayed in a USA configuration.*

The location number identifies the geographical area of the subnet for an IP terminal connection. It is used to manage the number 911. It may be the same for two geographically close networks.

4.6.2 STATUS OF EXTERNAL TRUNKS (MENU 4-6-2)

☞ For the Call Manager (F5): this menu is not available.

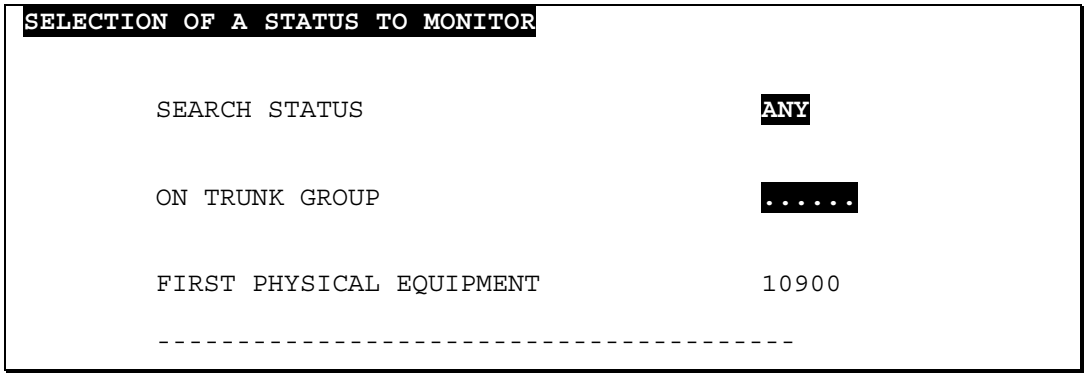


Figure 85: Selection of a status to monitor

SEARCH STATUS

ANY	FREE	BUSY	PERM OFF-HOOK COND.	FREE INCOMING
OUT OF SERVICE	ALARM MONITORING	FREE LOCKING	FREE CALLBACK	
ON SERVICE WAITING	LOCKING			

Select a status and then a trunk group. When you validate your selection, the user interface displays the list of extensions in the selected status on the selected trunk group.

ANY	To display the list of all lines with their current status.
FREE	To display the list of all lines in service and free.
BUSY	To display the list of all lines in conversation phase (call in progress).
PERM OFF-HOOK COND.	To display the list of all lines in permanent off-hook position.
FREE INCOMING	To display the list of all incoming leased lines in service and free.
OUT OF SERVICE	To display the list of all lines disabled by an MMC.
LOCKING	To display the list of all lines in blocking status with respect to the public network.
ALARM MONITORING	To display the list of all lines with no T0 access activated.
FREE LOCKING	To display the list of all lines in fault status with respect to the PBX.
FREE CALLBACK	To display the list of all lines in free state, but which will receive automatic call-back.
ON SERVICE WAITING	To display the list of trunks waiting to be IN SERVICE.

ON TRUNK GROUP

Name of the trunk group.

FIRST PHYSICAL EQUIPMENT

The external trunk lines on the trunk group are displayed starting with the first position indicated.

Example: Display of the external trunk lines on the trunk group.

```
LINES ANY TO ........

        eqt ACCESS     TK GR     STATUS      IT.PH
        ------------------------------------------------------
         2-0           :064      BRI.TG    FREE
         2-0           :065      BRI.TG    FREE
         3-0           :088      BRI.TG    ALARM
         3-0           :089      BRI.TG    ALARM
         3-1           :092      BRI.TG    ALARM
         3-1           :093      BRI.TG    ALARM
```

Figure 86: External trunk lines on the trunk group

4.6.3 STATUS OF DYNAMIC TRUNK GROUPS (MENU 4-6-3)

☞ For the Call Manager (F5): this menu is not available.

The selection screen displays the status and name of the trunk group you wish to view.

```
SELECTION OF A STATUS TO MONITOR

        STATUS SEARCHED                         ANY

        OVER THE DYNAMIC TRUNK GP               DYN S6

        ----------------------------------------
```

Figure 87: Selection of a status to monitor

On the screen Selection of a status to monitor, select:

- in the field "State searched", the status of the trunk group required
- in the field "Over the dynamic trunk GP", the name of the trunk group

When you validate your selection, the following display menu shows the physical trunk groups used by the specified dynamic trunk group.

```
LINES <TRUNK GROUP STATUS> OVER <TRUNK GROUP NAME>

        eqt ACCESS          Tk gp      STATUS      IT.PH
        ------------------------------------------------
        0-1-01   449        PCM.TG     BUSY

        ----------------4510 IS AND M6501 IP PBX ---------------
-
        Source       Session          Hardcopy
        Begin        More
```

Figure 88: Status of dynamic trunk groups

4.6.4 STATUS OF DATA LINKS (MENU 4-6-4)

☞ For the Call Manager (F5): Menu 4-6-2 (Status of data links).

Example: Display of data links.

```
STATUS OF DATA LINKS

          EQT NO. TYPE     DN.      STATUS      NO.LC
          ----------------------------------------
          AFISER0 SERVER   010        FREE
          SERVTL1 SERVER   011        FREE
          KITAXE2 SERVER   012       FREE
          SAESAE3 SERVER   013       FREE
          MUFACT4 SERVER   014       FREE
          SERV  5 SERVER   015       FREE
          SERGIC6 SERVER   0062      IN.CALL        1
          SRVRHM7 SERVER   017       FREE
          DEBUG 8 SERVER   018       FREE
          TELBOR9 SERVER   019       FREE
          ERF   0 SERVER   020       FREE
          BUFTIC1 SERVER   021       FREE
          ANISDN2 SERVER   022       FREE
          ----------------------------------------
```

Figure 89: Status of data links (F6)

```
STATUS OF DATA LINKS

          SVMEVO3 SERVER   023       FREE
          1-00-01 LLP  T2  1001       OUT OF SE
          1-01-00 IP GWY              FREE
          1-01-01 IP TUN   1101       FREE
          1-01-02 IP TUN   1102       FREE
          0-04-00 IP GWY   030        FREE
          0-04-01 IP TUN   0401       IN.COM         1
          0-05-00 CP1      031        DISCONNECT

          ----------------------------------------
```

Figure 90: Status of data links (F6) (continued)

OUT OF SERVICE	To display a list of links out of service and in disabled status.
DISCONNECTED	To display the list of links in service but cut off (terminal switched off, level 2 not established, etc.).
RECOVERY	To display the list of links in course of level 3 restart procedure.
FREE	To display the list of links in service and waiting for calls.
BUSY	To display the list of links with a call set up: the number of communications is shown by the NO.LC parameter.
IN COMM	To display the list of links with a call set up.

4.6.5 MAINTENANCE STATUS (MENU 4-6-5)

☞ For the Call Manager (F5): Menu 4-6-3 (Maintenance status).

A selection menu is used to define the state to be displayed.

The names used to identify the devices are those used in the logbook.

```
SELECTION OF A STATUS TO MONITOR

        SEARCH STATUS                   ANY

        POSITION OF FIRST CARD                .


        ------------------------------------------------------
```

Figure 91: Selection of a status to monitor

SEARCH STATUS

ANY	FAULTY	LOCKED	DISABLED	OUT OF SERVICE
DOWNLOAD	IN SERVICE	NET. ALARM		

The software maintenance program manages the status of each PBX: a card is a device, an equipment interface is a device of a lower order.

A device can be in the following statuses:

ANY	The status of all existing devices
FAULTY	Cannot be used following a hardware problem encountered on a device.
LOCKED	Device temporarily unavailable (for example: defective release).
DISABLED	Cannot be used following a request made by the operator.
OUT OF SERVICE	Cannot be used because a device of a higher hierarchical level cannot be used (DISABLED or FAULTY). This device of a higher hierarchical level must be rectified in order to set the device which is out of service back in service.
IN SERVICE	Available for application software.
NET. ALARM	LSB status for NETWORK cards (in particular PTx/PVI) which indicates network disconnection (IP, ISDN, etc.).

POSITION OF FIRST CARD

Enter the number of the first card in the display table.

When you validate the status of the first number, the following screen is displayed.

Example: Display of the cards in maintenance status.

```
DISPLAY ANY MAINTENANCE STATUS
                    EQT NO.  CARD       EQUIP.      STATUS
                    ---------------------------------------
                    0-02     **LAS_4T    0-C1-00    IN SERVICE
                    0-02-00  **LAS_4T   ******TO    IN SERVICE
                    0-02-01  **LAS_4T   ******TO    DISABLED
                    0-02-02  **LAS_4T   ******TO    DISABLED
                    0-02-03  **LAS_4T   ******TO    DISABLED
                    0-02-04  **LAS_4T   ******SO    DISABLED
                    0-02-05  **LAS_4T   DECTBASE    DOWNLOAD
                    0-02-06  **LAS_4T   DECTBASE    DOWNLOAD
                    0-02-07  **LAS_4T   ******SO    DISABLED

                    0-03      *****LAJ              IN SERVICE
                    0-03-00   *****LAJ  ***AbNum    IN SERVICE
                    0-03-01   *****LAJ  ***AbNum    IN SERVICE
                    0-03-02   *****LAJ  ***AbNum    IN SERVICE
                    ---------------------------------------


                           Origin Session Hardcopy
                    Begin More
```

Figure 92: Display any maintenance status

```
DISPLAY ANY MAINTENANCE STATUS
                    0-4-     *LT2-RTC             IN SERVICE
                    0-4-00   *LT2-RTC  *MIC-RTC   IN SERVICE
                    0-4-01   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-02   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-03   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-04   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-05   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-06   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-07   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-08   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-09   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-10   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-11   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-12   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-13   *LT2-RTC  *JRN-RTC   DISABLED
                    0-4-14   *LT2-RTC  *JRN-RTC   DISABLED
                    ---------------------------------------


                           Origin Session Hardcopy
                    Begin More
```

Figure 93: Display any maintenance status (continued)

4.6.6 ROAMING STATUS OF MOBILES (MENU 4-6-6)

☞ For the Call Manager (F5): Menu 4-6-4 (Roaming status of mobiles).

```
MOBILE LOCALIZATION STATUS

          1 MOBILE BASIS

          2 CELL BASIS

          ENTER YOUR CHOICE                    .

          ---------------------------------------
```

Figure 94: Mobile localisation status

4.6.6.1 MOBILE BASIS (MENU 4-6-6-1)

This menu is used to display the status and localisation of all the mobiles.

```
MOBILE LOCALIZATION


    NO DIR      REF.CELL.   CELL        STAT.CP     LEV
    ------------------------------------------------------


    ------------------------------------------------------
```

Figure 95: Mobile localisation (menu 4-6-6-1)

The following information is displayed:

- The mobile's directory number
- the REF.CELL is not used
- the number of extensions in the group
- the last cell in which the mobile was located: if the cell is internal, the field gives the cell ID; if the cell is remote, the field gives the number of the remote site followed by the cell ID
- Mobile status: located (INTERNAL) or lost (REMOTE)
- the counter indicating the failed calls made to the mobile (the number of calls made when the mobile is called while it is outside coverage area or turned off)
- LEV is not used

4.6.6.2 CELL BASIS (MENU 4-6-6-2)

This menu is used to display, for a given cell, all the mobiles attached to this cell.

```
MOBILE LOCALIZED ON CELL

          SELECT THE CELL          ........

          ----------------------------------------
```

Figure 96: Mobile localisation (cell basis) (menu 4-6-6-2)

Select the cell. Press Enter to confirm.

```
MOBILE LOCALIZED ON CELL CELL 0

          EQUIP NUM.  DIR NUM.    SITE        STATUS
          ---------------------------------------------

          ---------------------------------------------
```

Figure 97: Mobiles localised on cell xxxxxx

The following information is displayed:

- Base station slot
- Base station number
- Directory number of mobile attached to base station
- Site name
- Mobile status: located, busy, etc.

4.6.7 FILLING STATUS OF TABLES (MENU 4-6-7)

☞ For the Call Manager (F5): Menu 4-6-5 (Filling status of tables).

```
FILLING STATUS OF TABLES

       PROGRAMMING KEYS                 219 / 4600
       PERSONAL ABREV. NUMBER             0 /  255
       PREDEFINED FORWARD                 0 /  100
       IMMEDIATE FORWARD                  1 /  600
       FORWARD ON BUSY                    0 /  600
       FORWARD ON NO ANSWER               2 /  600
       RECORDED CALL                      0 /  128
       IMMEDIATE CALL                     0 /  128
       DELAYED CALL                       0 /  128
       MANAGER LINE                       2 /  128
       WAKE-UP                            0 /  500
       DID DIRECTORY NUMBER               0 /  400
       MULTILINE DIRECTORY NUMBER         4 /  256
       DIGITAL SETS                      18 / 1024
       MOBILES                            0 /  256

            ----------------------------------------
```

Figure 98: Filling status of tables

```
FILLING STATUS OF TABLES


       NUMBERING PLAN : TREE              34 /  356
       NUMBERING PLAN : DATA             100 /  384
       NETWORK PLAN : TREE                 2 /  228
       NETWORK PLAN : DATA                 2 /  320
       OUTGOING TRANSLATOR : TREE          1 /  128
       OUTGOING TRANSLATOR : DATA          3 /  64
       INCOMING TRANSLATOR : TREE          1 /  128
       INCOMING TRANSLATOR : DATA          1 /  96


            ----------------------------------------
```

Figure 99: Filling status of tables (cont.)

This menu is used to display the filling status of the feature tables and the quantity used for each table.

Note: *It is important to check availability before offering or selling certain features.*

4.6.8 STATUS OF TCP TUNNEL CONNECTIONS (MENU 4-6-8)

☞ For the Call Manager (F5): Menu 4-6-6 (Status of TCP tunnel connections)

```
STATUS OF CONNECTIONS TCP TUNNEL

       NAME       DN   STATUS                LC NO.
       ----------------------------------------
       S04>S20   1101      CONNECT. IN PROGRS
       S04>S06   1102      CONNECT. IN PROGRS
       S04>S21   0401      CONNECTED              1


       ----------------------------------------
```

Figure 100: Status of TCP tunnel connections

This menu is used to display the status of TCP connections. It displays in table format the name of the connections, their directory number, their status, and the number of logical channels they have in busy status (if the connection is valid).

STATUS

The Status column displays the following connection statuses:

CONNECT. IN PROGRS	Waiting for connection and system requesting connection.
CONNECT	Valid connection.
DISCONNECT	Connection failed and disconnected.

4.6.9 STATUS OF INTEGRATED VOICE BOXES (MENU 4-6-9)

☞ For the Call Manager (F5): this menu is not available.

```
STATUS OF INTEGRATED VOICE BOXES

          1.BVF OVERALL DISPLAY
          2 MESSAGES IN A BOX DISPLAY
          3 DISPLAY MESSAGES INVOLVED IN AUDIT
          4 DISPLAY OF THE GENERAL CHARACTERISTICS
          5 BUSY STATISTICS DISPLAY
          ENTER YOUR CHOICE                  .
          ------------------------------------------
```

Figure 101: Status of integrated voice boxes

This menu is used to display the status of integrated voice mailboxes: display of all the voice mailboxes, listing of the messages in a mailbox, display of hardware characteristics and message occupation statistics in the flash memory.

4.6.9.1 OVERALL VIEW OF VOICE BOXES (MENU 4-6-9-1)

☞ For the Call Manager (F5): this menu is not available.

When you select this feature, the following screen is displayed:

```
VOICE MAIL BOXES DISPLAY

          FROM NUMBER              .......
          FOR THE SERVICE CLASS          .......
          FOR THE FUNCTIONAL MODE        .......
          FOR THE STATUS                                .......
          ------------------------------------------
```

Figure 102: Overall view of voice mailboxes

This menu is used to display all or part of the integrated voice mailboxes:

FROM NUMBER

A list of the voice mailboxes can be displayed in ascending order, from the directory number of any voice mailbox.

Enter a directory number. When you validate this number, the following screen is displayed:

```
GLOBAL VOICE MAIL DISPLAY

    BVF FUNCTION STATUS:           IN SERVICE
    VOICE MAIL NUMBER:                    16
    RANGE/VOICE MAIL TOTAL NUMBER :     100%
    RANGE OF USED FLASH :                38%

    NUM STATUS  MSG GREET. NGM  NRM   DURAT.
    ---------------------------------------
    200    AVAIL RS STANDARD             0    2    00:36
    201    AVAIL RS STANDARD             0    2    00:36
    202    DISPO RS BVF PERSONAL MESSAGE 3    0    00:54
    203    AVAIL RS STANDARD             1    1    00:36
    204    AVAIL RS STANDARD             0    1    00:18:00
    205    AVAIL RS STANDARD             3    4    03:02:00
    206    AVAIL RS STANDARD             1    0    00:18:00
    207    AVAIL RS STANDARD             0    4    02:07:00
           ---------------------------------------
```

Figure 103: Displaying voice mailboxes from a directory number

FOR THE SERVICE CLASS

A list of the voice mailboxes belonging to the same service class can be displayed.

Select the name of the class (select "----" to display all the voice mailboxes). When you validate the selection, the following screen is displayed (read only):

```
VOICE MAIL DISPLAY FOR THE CLASS : BVI 0

     BVF FUNCTION STATUS:           IN SERVICE
     VOICE MAIL NUMBER:                      2
     RANGE/VOICE MAIL TOTAL NUMBER :       12%
     RANGE OF USED FLASH :                  0%

     NUM STATUS  MSG GREET.   NGM  NRM   DURAT.
     ---------------------------------------
     200    AVAIL RS STANDARD  0    2    00:36
     201    AVAIL RS STANDARD  0    2    00:36
     ---------------------------------------
     TOTALS:                   0    4    00:01:12
     ---------------------------------------
```

Figure 104: Displaying voice mailboxes belonging to the same service class

FOR THE FUNCTIONAL MODE

A list of the voice mailboxes can be displayed depending on their operating mode:

-------	View all voice mailboxes
RE	View voice mailboxes in Announcement and Recording mode
RS	View voice mailboxes in Announcement mode

Select a voice mailbox operating mode. When you validate the selection, the following screen is displayed (read only):

```
GLOBAL VOICE MAIL DISPLAY

     BVF FUNCTION STATUS:           IN SERVICE
     VOICE MAIL NUMBER:                     15
     RANGE/VOICE MAIL TOTAL NUMBER :       93%
     RANGE OF USED FLASH :                 37%

     NUM STATUS  MSG GREET.              NGM  NRM   DURAT.
     ------------------------------------------------------
     200    AVAIL RS STANDARD             0    2    00:36
     201    AVAIL RS STANDARD             0    2    00:36
     202    DISPO RS BVF PERSONAL MESSAGE 3    0    00:54
     203    AVAIL RS STANDARD             1    1    00:36
     204    AVAIL RS STANDARD             0    1    00:18:00
     205    AVAIL RS STANDARD             3    4    03:02:00
     206    AVAIL RS STANDARD             1    0    00:18:00
     207    AVAIL RS STANDARD             0    4    02:07:00
          ---------------------------------------
```

Figure 105: Displaying voice mailboxes depending on operating mode

Note: *When the cursor is positioned on a voice mailbox number, a zoom command (ESC Z) can be used to display the details of the messages in the voice mailbox (see menu 4.6.9.2).*

FOR THE STATUS

A list of the voice mailboxes can be displayed depending on their status:

-------	View voice mailboxes with space available to receive new messages
D_SAT	View voice mailboxes with no more recording space available
M_SAT	View voice mailboxes with maximum number of authorised messages

Select a status. When you validate the selection, the following screen is displayed (read only):

```
GLOBAL VOICE MAIL DISPLAY

     BVF FUNCTION STATUS:          IN SERVICE
     VOICE MAIL NUMBER:                     1
     RANGE/VOICE MAIL TOTAL NUMBER :       6%
     RANGE OF USED FLASH :                 4%

     NUM STATUS  MSG GREET.    NGM  NRM   DURAT.
     ---------------------------------------
     209    D SAT RS STANDARD   2    18    20:19
     ---------------------------------------
     TOTALS:                    2    18    00:20:19
-----------------------------------------
```

Figure 106: Displaying voice mailboxes by status

BVF FUNCTION STATUS:

Indicates the status of the announcement and recording function.

LOCKED	The announcement and recording function is locked. Until the unlocking code is entered (menu 3-8-1 Unlock SA functions), the voicemail operates in announcement mode for all the voice mailboxes declared.
IN SERVICE	The answering and recording function is unlocked (menu 3-8-1 Unlock SA functions). All the mailboxes are in announcement and recording mode. The user can then choose the configuration for his voice mailbox and reactivate basic answering machine mode.

VOICE MAIL NUMBER:

Indicates the total number of voice mailboxes meeting the selection criteria.

RANGE/VOICE MAIL TOTAL NUMBER :

Indicates the percentage of voice mailboxes meeting the selection criteria out of the total number of voice mailboxes declared.

RANGE OF USED FLASH :

Indicates the occupation rate of the flash memory for all messages listed on the basis of the criteria selected.

NUMBER:

Voice mailbox directory number (same as the directory number of the user with this mailbox).

STAT:

Status of the voice mailbox:

AVAIL	Voice mailbox not full (place available)
D SAT	Voice mailbox saturated in terms of duration
M SAT	Voice mailbox saturated in terms of messages.
DISA.	Voice mailbox inaccessible (for example, card absent)

MOD:

Voice mailbox operating mode:

RE	Announcement and Recording mode
RS	Announcement mode

GREET.:

:

STANDARD	Standard message (voice mailbox number)
NAME	Simple customised message (name of mailbox owner)
BVF PERSONAL MSG	Detailed customised message (greeting message in announcement and recording mode)
SVF PERSONAL MSG	Detailed customised message (greeting message in announcement mode)

NGM:

Total number of greeting messages for each voice mailbox listed.

NRM:

Total number of messages left in each voice mailbox listed.

DURAT.:

Total duration of all messages recorded in the voice mailbox (messages left + greeting messages).

TOTALS:

- Total number of recorded messages (NGM and NRM) in all the voice mailboxes.

- Total duration of all messages in all voice mailboxes.

4.6.9.2 VIEW MESSAGES IN A BOX (MENU 4-6-9-2)

☞ For the Call Manager (F5): this menu is not available.

When you select this feature, the following screen is displayed:

```
SELECT A VOICE BOX

          VOICE MAIL NUMBER                    203...

           ----------------------------------------
```

Figure 107: Selecting a voice mailbox

This menu is used to display all the messages contained in a selected voice mailbox.

VOICE MAIL NUMBER

Displays the messages in a voice mailbox by entering its number.

```
DISPLAY DISPLAY : 203  CLASS : BVI 1

    NUM   DATE              ACCESS      STATUS             DURAT
          ------------------------------------------------------
    0                     BVF PERSONAL MESSAGE           00:10
          1 NAME                        00:05
    2                     SVF PERSONAL MESSAGE           00:07
          ------------------------------------------------------
          0     13/05/03 13:36               LEFT  00:18
          ------------------------------------------------------
          TOTAL:                                       00:00:40

          ------------------------------------------------------
```

Figure 108: Displaying voice mailbox messages

The recorded messages are of two types:

- first part of menu:
  greeting messages (maximum of 3 types per voice mailbox)
- second part of menu:
  messages left

NUM

Message number.

DATE

Date on which the message was left (dd/mm/yy hh:mm).

ACCESS

Type of greeting active:

STANDARD	Greeting by voice mailbox number
NAME	Greeting by name
BVF PERSONAL MSG	Announcement and recording mode customised greeting
SVF PERSONAL MSG	Announcement mode customised greeting

STATUS

Message status (for messages left only):

LEFT	A message has been left but not read
READ	The message left has been read

DURATION

Duration of the message recorded in minutes/seconds.

TOTAL

Total duration of all the messages (greetings and messages left) in the voice mailbox.

4.6.9.3 VIEW MESSAGES INVOLVED IN AUDIT (MENU 4-6-9-3)

☞ For the Call Manager (F5): this menu is not available.

When you select this feature, the following screen is displayed:

```
DISPLAY MESSAGES INVOLVED IN AUDIT

          BOX   MSG   DATE              STATUS      DURATION
          ---------------------------------------------------
          200   0     13/05/03 13 :36   LEFT        00:10
          200   1     13/05/03 13 :35   READ        00:08
          201   0     29/04/03 13 :35   LEFT        00:04
          201   1     29/04/03 13 :34   READ        00:03
          ---------------------------------------------------
          TOTALS:                                   00:00:25

          BUSY RANGE :            0%

          ---------------------------------------------------
```

Figure 109: View messages involved in audit

This menu is used to display all the messages which will be deleted when the audit is activated.

BOX

The voice mailbox number.

MSG

Number of messages in the voice mailbox.

DATE

Date on which the message was left (dd/mm/yy hh:mm).

STATUS

Message status:

- left: a message has been left but not read
- read: the message left has been read.

DURATION

Duration of the message recorded in minutes/seconds.

TOTALS

Total duration of messages selected on the basis of certain criteria.

BUSY RANGE

Rate of occupation of flash memory by messages selected on the basis of certain criteria.

4.6.9.4 DISPLAY GENERAL CHARACTERISTICS (MENU 4-6-9-4)

☞ For the Call Manager (F5): this menu is not available.

When you select this feature, the following screen is displayed:

```
DISPLAY GENERAL CHARACTERISTICS



        IVB/FRV CARD SLOT: X-X
        ---------------------------------------
        - FLASH FILLING RATE                  10%
        - FLASH STEPS (IN SECOND)             18
        - TAILLE FLASH (MEGA OCTETS)          32
        - VERSION FIRMWARE
        - CATALOGUE LIST OF VOICE ANNOUNCEMENTS:
          CATALOGUE 0                         BXF003CD.CAT
          CATALOGUE 1                         XXXX

          CATALOGUE N                         XXXX
```

Figure 110: Display general characteristics

This menu is used to display the card characteristics.

IVB CARD SLOT

Location of the IVB/FVB2 card in the device (F1).

VOICEMAIL CARD SLOT: 0-06

Position of virtual voicemail card integrated in the CPU card (F6).

FLASH FILLING RATE

Filling rate (as a percentage) of the message area – card signature.

FLASH STEPS (IN SECOND)

Messages recorded in the flash memory are stored in sections. The "step" represents the duration of recording per section (expressed in seconds).

FLASH SIZR (MEGABYTES)

Size of the flash memory in megabytes.

FIRMWARE VERSION

Version number in 8 alphanumeric character.

CATALOGUE LIST OF VOICE ANNOUNCEMENTS

Name of specified catalogues (from 0 to n) in 12 alphanumeric characters.

4.6.9.5 DISPLAY BUSY STATISTICS (MENU 4-6-9-5)

☞ For the Call Manager (F5): not available

When you select this feature, the following screen is displayed:

```
BUSY STATISTICS DISPLAY

          ALL KIND OF MESSAGES TOTAL

          BOX NUM.    MSG NUM.DURATION RATE(%)
          ------------------------------------
          16           140    02:38:53    38

          ANNOUNCEMENT GREETING DURATIONS

          GREETING TYPE    MSG. NUM DURATION RATE(%)
          -----------------------------------
          NAME              8  00:03:36    0
          BVF PERS          6  00:02:06    0
          sVF PERS          6  00:08:42    2

          ---------------------------------------
```

Figure 111: Displaying voicemail busy statistics

```
BUSY STATISTICS DISPLAY


          RECORDED MESSAGES DURATIONS

          MSG STAT    MSG NUM; DURATION RATE(%)
          -----------------------------------
          LEFT          97  01:17:06    18
          READ              23  01:06:54    16

          ---------------------------------------
```

Figure 112: Displaying voicemail busy statistics (cont.)

This menu gives an overall view of the occupation state of the flash memory:

- Display of all recorded messages (greeting messages + recorded messages)
- Display of greeting messages according to type (name, customised)
- Display of recorded messages according to status (read, not read)

4.7 TRAFFIC OBSERVATION (MENU 4-7)

```
TRAFFIC OBSERVATION

          1 DEFINE TRUNK GROUP OBSERVATION
          2 DISPLAY TRUNK GROUP OBSERVATION
          3 BASE STATION OBSERVATION
          4 BASE STATION TRUNK OBSERVATION
          5 MOBILE OBSERVATION
          6 RESET WIRELESS OBSERVATION
          7 INTEGRATED VOICE BOX PARAMETERS
          8 CAC SERVER MONITORING
          ENTER YOUR CHOICE                  .
          ------------------------------------------
```

Figure 113: Menu 4-7 (Traffic observation)

☞ For the Call Manager (F5): Menu 4-7 (Traffic observation). Levels 1 (Define trunk group observation), 2 (Display trunk group observation), 3 (Base station observation), 4 (base station trunk observation), 7 (Integrated voice box parameters) are not available.

Traffic observation is currently limited to trunk groups and mobiles. Traffic observation of mobiles is limited to output of counters on request and manual reset of the counters.

- A maximum of 8 trunk groups can be observed at a particular given moment.
- Periodic observation can be achieved by taking 10-, 20-, 30- or 60-minute samples.
- A maximum of 256 samples can be stored. When a total of 256 samples is reached, the oldest samples are deleted by the new samples. Only significant samples are stored, and the minimum busy rate is set by the operator.
- Observation duration is defined in hours, beginning at the start date (infinite if no duration is declared).

4.7.1 DEFINE TRUNK GROUP OBSERVATION (MENU 4-7-1)

☞ For the Call Manager (F5): this menu is not available.

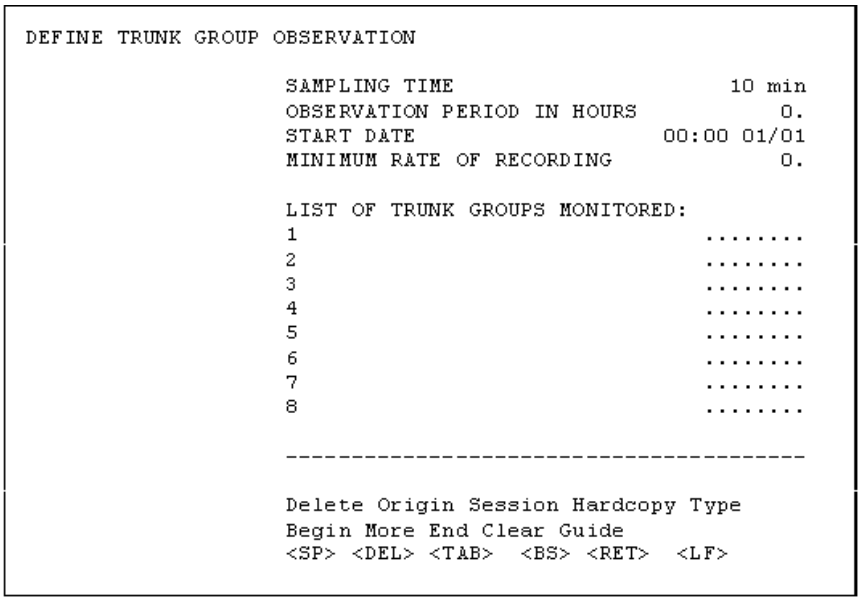


Figure 114: Define trunk group observation

This menu is used to identify the trunk group(s) to be observed, to select the sampling time, to set observation duration (optional), and to reset the sampling memory.

SAMPLING TIME

10 MIN **20 MIN** **30 MIN** **60 MIN** **1MIN (test)**

Select the required sampling time.

OBSERVATION PERIOD IN HOURS

Enter the observation period (hh). The observation period is infinite if this field is not filled in.

START DATE

Observation start date (read only).

MINIMUM RATE OF RECORDING

Busy status percentage (in 2 digits) above which samples are stored. This is to avoid a significant sample being deleted by a non-significant sample.

LIST OF TRUNK GROUP MONITORED

Lists from 1 to 8 **••••••••** **BRI.TG** **ANA.TG**

Select the trunk group to be observed.

4.7.2 DISPLAY TRUNK GROUP OBSERVATION (MENU 4-7-2)

☞ For the Call Manager (F5): this menu is not available.

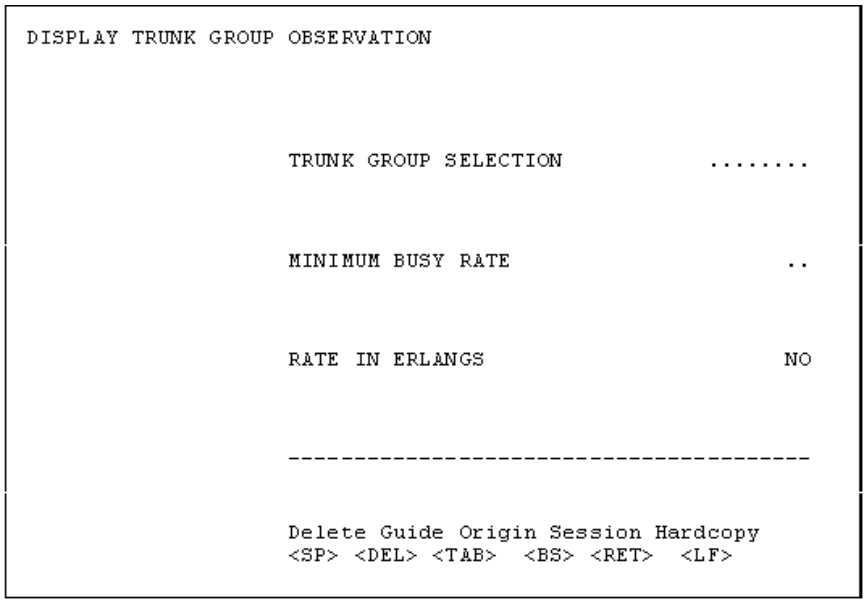


Figure 115: Display trunk group observation

This menu is used to select the trunk group to be observed and to display the characteristics of the trunk lines in service.

TRUNK GROUP SELECTION

Select a trunk group.

MINIMUM BUSY RATE

The minimum busy rate required to display samples of a given trunk group.

This rate is only active if the trunk group selection is set at ••••••••.

Note: *The minimum busy rate selected is only relevant if the value selected is at least equal to the busy rate value requested for storage. (See Minimum rate of recording).*

RATE IN ERLANGS

NO **YES**

Select the rate in Erlangs.

Example: Display of trunk group observations.

```
OBSERVATION OF TRUNK GROUP 13:17 08/02


                 WAY    BR  NC SA  BU  RE  SP  QR
          ---------------------------------------
          BRI.TG  /02 D   8   1  0   0   1   0   0
                      A   0   0      0   0   0
          ---------------------------------------
          ANA.TG  /06 D   0   0  0   0   0   0
                      A   0   0      0   0   0
          ---------------------------------------




          ---------------------------------------
```

Figure 116: Observation of trunk group table

This screen displays the hour, minutes, and date of the observation and a table showing the characteristics of the trunk group observed, including the number of lines in service.

DIRECTION	:	D: Outgoing or A: incoming
to	:	Busy rate for lines in the trunk group
NC	:	Number of calls in the trunk group
SA	:	Saturation (significant in outgoing mode only).
BU	:	Busy (number of incoming calls for <busy subscribers>)
RE	:	Free (number of incoming calls for <free subscribers>)
SP	:	Conversation (number of voice communications)
QR	:	Quality rate is equal to SP X 100): NC

The first line (5) is not always significant for calculation of the busy rate.

Example:

Calculation is as follows for an outgoing and incoming call on the same trunk group: busy rate for all lines in the trunk group in service multiplied by 100, divided by the reference time, and multiplied by the number of lines in service.

In the above table, busy time is from 08:36 to 08:37, that is, 1 minute, and the reference time is 1 MIN (test). The number of lines is 2, so we have 60 sec. x 100: 60 sec. x 2 = 50% busy rate for the trunk group lines. The trunk group can be observed by entering the minimum rate.

Use the commands "Next" and "Previous" to move from overall trunk group observation, from busy rate to another rate.

4.7.3 BASE STATION OBSERVATION (MENU 4-7-3)

☞ For the Call Manager (F5): this menu is not available.

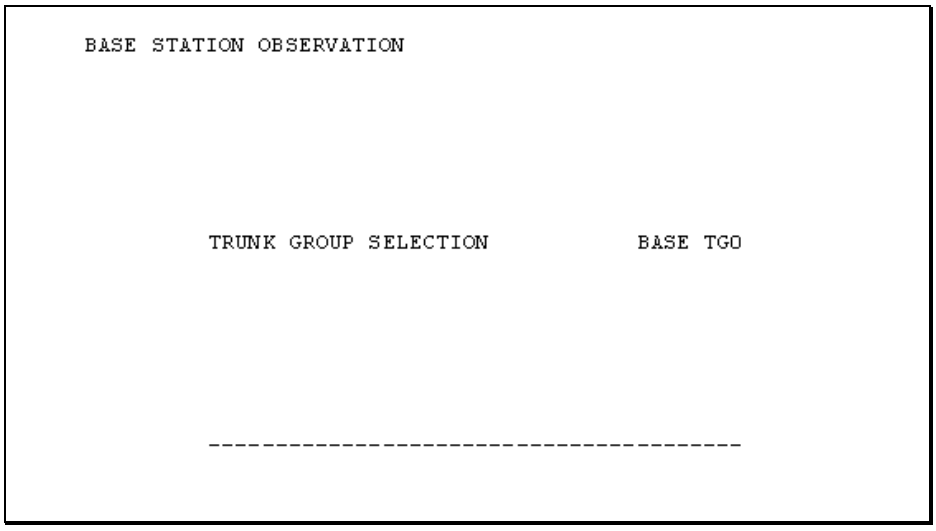


Figure 117: Base station observation

TRUNK GROUP SELECTION

••••••• **BASE TG0**

Select the trunk group to be observed.

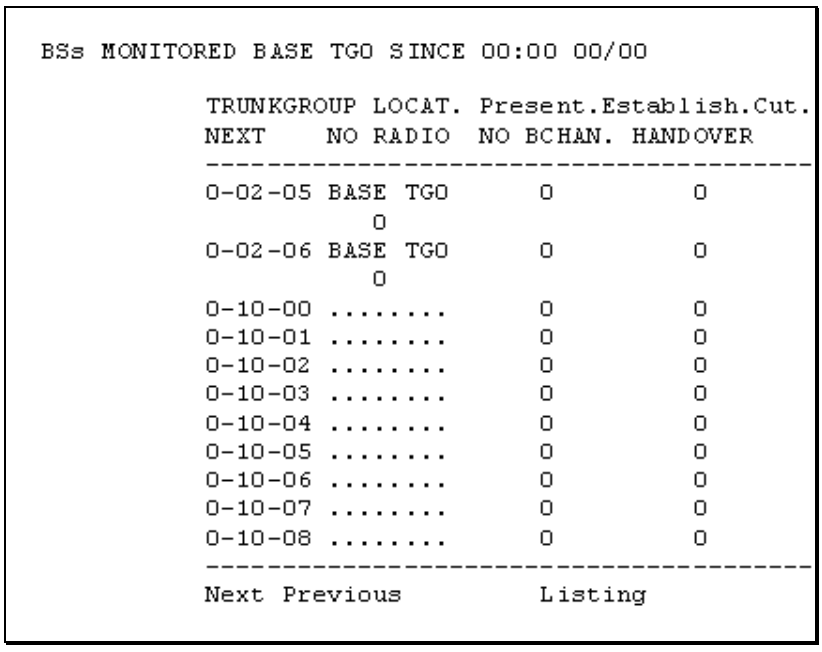


Figure 118: Base station observation table

This screen displays all the calls presented, made, or cut off on the base stations in a selected trunk group since the last reset.

The base stations are identified by the cabinet/card/equipment numbers.

4.7.4 BASE STATION TRUNK OBSERVATION (MENU 4-7-4)

☞ For the Call Manager (F5): this menu is not available.

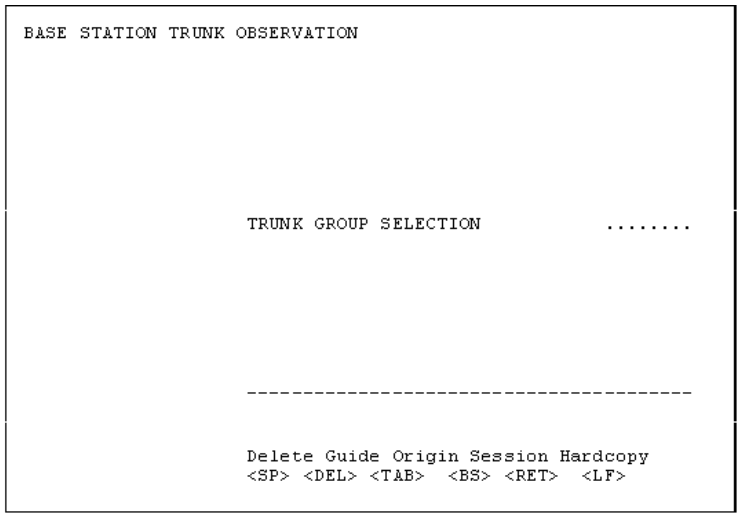


Figure 119: Selection of trunk group to be observed

TRUNK GROUP SELECTION

•••••• **BASE TG0**

Select the trunk group to be observed.

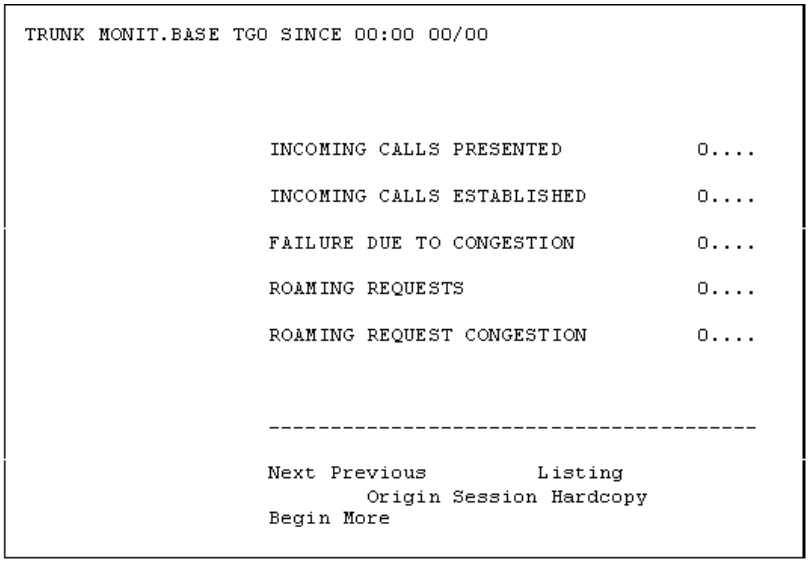


Figure 120: Observation of the selected trunk group

INCOMING CALLS PRESENTED

Number of incoming calls presented since the last reset.

FAILURE DUE TO CONGESTION

Number of failed calls since the last reset.

INCOMING CALLS ESTABLISHED

Number of incoming calls set up since the last reset.

ROAMING requests

Number of roaming requests made since the last reset.

ROAMING request CONGESTION

Number of roaming request congestions since the last request.

Note: *To reset, see RESET WIRELESS OBSERVATION.*

4.7.5 MOBILE OBSERVATION (MENU 4-7-5)

☞ For the Call Manager (F5): Menu 4-7-1 (Mobile observation).

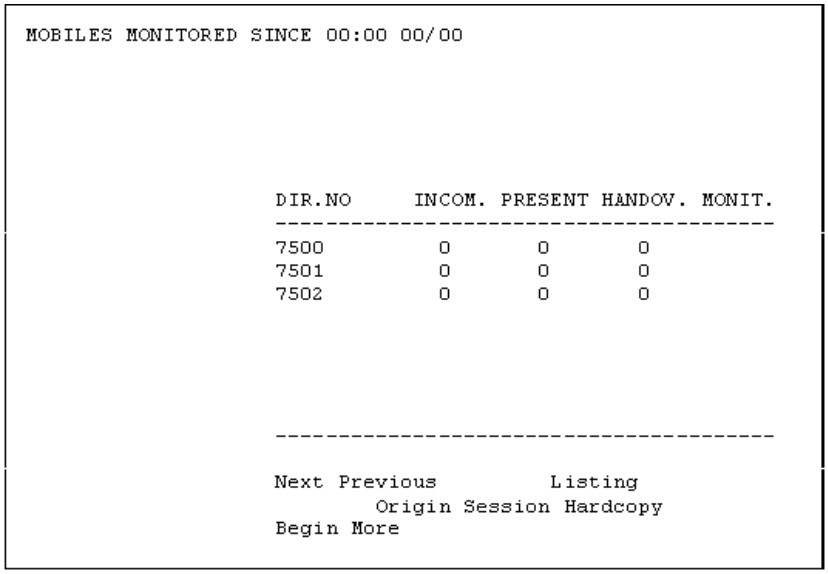


Figure 121: Mobile observation table

For each terminal, this screen displays the directory number and the number of incoming calls with or without roaming.

4.7.6 RESET WIRELESS OBSERVATION (MENU 4-7-6)

☞ For the Call Manager (F5): Menu 4-7-2 (Reset wireless observation).

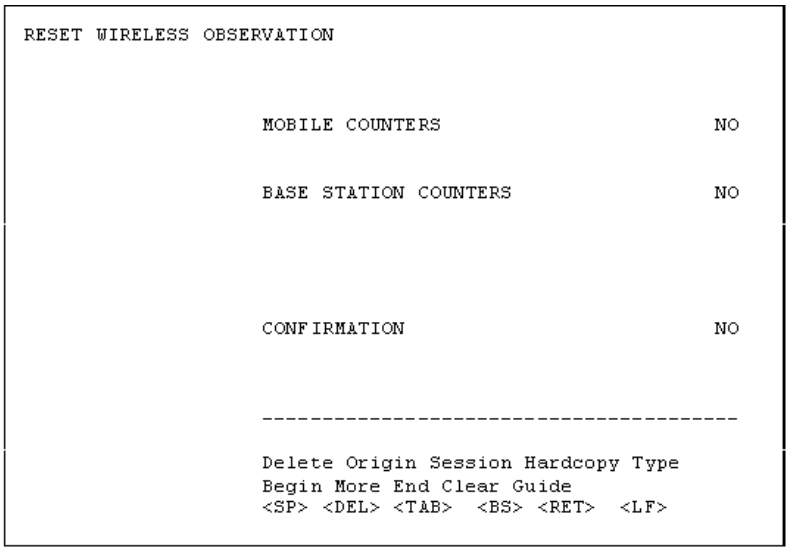


Figure 122: Rest wireless observation

This screen is used to define all counters to be reset.

The date and time of the operation is given for each correspondent.

MOBILES COUNTERS

NO **YES**

If you select YES, the mobile counters are reset.

RADIO STATION COUNTERS

NO **YES**

If you select YES, the counters connected to one ore more base station trunk groups are reset.

CONFIRMATION

NO **YES**

Select YES to confirm the deletion of the specified counters and to record the date and time of the operation.

4.7.7 INTEGRATED VOICE BOX PARAMETERS (MENU 4-7-7)

☞ For the Call Manager (F5): this menu is not available.

```
IVB INTEGRATED VOICE BOX PARAMETERS

          1 AUDIT START-UP CRITERIA
          2 MESSAGE SELECTION CRITERION
          3 RESET FLASH
          ENTER YOUR CHOICE                    .
          ------------------------------------------
```

Figure 123: Integrated voice box parameters

This menu is used to select the parameters for starting the audit and deleting messages, audit start up, message deletion, and to reset the flash memory.

4.7.7.1 AUDIT START-UP CRITERIA (MENU 4-7-7-1)

☞ For the Call Manager (F5): this menu is not available.

When you select this feature, the following screen is displayed:

```
AUDIT START-UP CRITERIA

          FREQUENCY: HOURLY                          0
          FREQUENCY: DAILY                           1
          TIME OF START-UP                    0
          STAT: ACTIVE            ACTION:       ......
```

Figure 124: Audit start-up criteria

This menu is used to define the audit start-up criteria.

Auditing is set to be carried out periodically (hourly or daily) beginning at a start date. If the frequency fields are set at 0, auditing will not be carried out.

FREQUENCY: HOURLY

Hourly (hh: from 0 to 23).

FREQUENCY: DAILY

Daily (dd: from 1 to 31).

TIME OF START-UP

Time the audit will start (hh: from 0 to 23).

STATUS

This field displays the current state of the audit, ACTIVE or INACTIVE.

ACTION

`••••••` **MODIFY** **CREATE** **SUPPRIMER**

This field is used to create or delete an audit. It is also used to change the parameters for running the active audit with new parameters.

4.7.7.2 MESSAGE SELECTION CRITERIA (MENU 4-7-7-2)

☞ For the Call Manager (F5): this menu is not available.

When you select this feature, the following screen is displayed:

```
MESSAGE SELECTION CRITERION

         OR CRITERIA VALUES - CONDITION: 0
         -------------------------
             - FOR MESSAGE STATUS                        ....
             - AND THE LENTH OF SERVICE (DAYS)           0
             - AND THE DURATION (SECONDS)                0
             - AND THE SERVICE CLASS                     ....

         OR CRITERIA VALUES - CONDITION: 1
         -------------------------
             - FOR MESSAGE STATUS                        ....
             - AND THE LENTH OF SERVICE (DAYS)           0
             - AND THE DURATION (SECONDS)                0
             - AND THE SERVICE CLASS                     ....

         OR CRITERIA VALUES - CONDITION: 2
         -------------------------
             - FOR MESSAGE STATUS                        ....
             - AND THE LENTH OF SERVICE (DAYS)           0
             - AND THE DURATION (SECONDS)                0
             - AND THE SERVICE CLASS                     ....

         OR CRITERIA VALUES - CONDITION: 3
         -------------------------
             - FOR MESSAGE STATUS                        ....
             - AND THE LENTH OF SERVICE (DAYS)           0
             - AND THE DURATION (SECONDS)                0
             - AND THE SERVICE CLASS                     ....
```

Figure 125: Message deletion criteria

This menu is used to define four conditions for a message to be selected or destroyed when the sudit starts.

For each condition you can specify 4 criteria: the message status (read or left), the length of time it has been in the voice mailbox (in days), its duration (in seconds) and its service class.

FOR MESSAGE STATUS

••••••	READ	LEFT
••••••	Whatever the message status	
READ	Message left and read	
LEFT	Message left but not read	

AND THE LENTH OF SERVICE (DAYS)

In days. The selected (or deleted) message has reached or exceeded the maximum length of time a message is allowed to remain in the voice mailbox.

AND THE DURATION (IN SECONDS)

In seconds. The duration of the selected (or deleted) message has exceeded the specified limit.

AND THE SERVICE CLASS

Select the name of the class or "------" (whatever the class).

Note: *If no criteria are selected in a particular block, the audit will not be run on this block.*

4.7.7.3 RESET FLASH (MENU 4-7-7-3)

☞ For the Call Manager (F5): this menu is not available.

When you select this feature, the following screen is displayed:

```
RESET VOICE BOX FLASH

          PASSWORD                    xxxxx
```

Figure 126: Reset voice mailbox flash

This menu is used to delete all the recorded messages in the card flash memory (both greeting messages and messages left).

IMPORTANT: *For F1/F2s, set the voice mail system out of service before resetting (menu "Extension characteristics").*
For F6s, reset the PBX after the voice mail system has been reset so that the messages are deleted from the flash memory.

PASSWORD

xxxxx

Enter your password in this field.

4.7.8 CAC SERVER MONITORING (MENU 4-7-8)

☞ For the Call Manager (F5): Menu 4-7-3 (CAC server monitoring)

```
CAC SERVER MONITORING

          1 DISP. FLOW TOWARDS OTHER CENTRES
          2 DISP. FLOW PER CLASS
          3 CENTERS COUNTERS REINITIALIZATION
          4 CENTERS COUNTERS REINITIALIZATION
          5 CAC SERVERS STATUS
          ENTER YOUR CHOICE                  .
          ------------------------------------------
```

Figure 127: CAC server monitoring

This menu is used to access the menus for displaying and resetting current flow tables for the active server.

Note: *The active server is the server used to control inter-centre and/or intra-class flows. The server name may therefore be either the main server or secondary server.*

4.7.8.1 DISPLAYING FLOWS TOWARDS OTHER CENTRES (MENU 4-7-8-1)

☞ For the Call Manager (F5): Menu 4-7-3-1 (Disp. flow towards other centres)

IMPORTANT: *This menu only appears if the PBX is configured in multi-site mode (menu 3.6 - Parameters management).*

```
DISP. FLOW TOWARDS OTHER CENTRES

    ACTIVE SERVER: 001-SITE LOC, CCU: 2
    CENTER          FLOW          MAX.       NO CRIT       NB REF
    ------------------------------------------------------------

    02-center 2       0*            0*           0             0
    03-center 3       0             0            0             0
    04-center 4       0             0            0             0

    ------------------------------------------------------------
```

Figure 128: Display flows towards other centres

This menu is used to display the current server counters on a centre-by-centre basis.

Only the counters of the centres to which the flow is limited are displayed. These counters are read in the active server

ACTIVE SERVER: XXXXX, CCU: ZZ

This line shows the name of the site where the active server is located (counters read in this server) and the cluster number (cluster no. 2 for "single-cluster" systems).

CENTER

Shows the name of the centre.

FLOW

Shows the current flow (in kbit/s).

> **Note:** *If a centre is attached to a transit centre, its current flow is in fact that of the transit centre. If this is the case, the symbol * is displayed.*

MAX

Shows the maximum current flow reached.

> **Note:** *If a centre is attached to a transit centre, its maximum current flow is in fact that of the transit centre. If this is the case, the symbol * is displayed.*

NO CRIT

Shows the number of calls in a critical area.

NB REF

Shows the number of calls refused.

4.7.8.2 DISPLAY FLOWS BY CAC CLASS (MENU 4-7-8-2)

☞ For the Call Manager (F5): Menu 4-7-3-2 (Disp. flow per class)

```
DISP. FLOW PER CLASS

     ACTIVE SERVER: 001-SITE LOC, CCU: 2
       CLASS        THROUGPT     MAX.      CRIT NB      REF NB
     ------------------------------------------------------------
           0            0           0           0           0
           1            0           0           0           0
           2            0           0           0           0
     ------------------------------------------------------------
```

Figure 129: Display flows by CAC class

Only CAC class counters with limited flow are displayed. These counters are read in the active server

ACTIVE SERVER: XXXXX, CCU: ZZ

This line shows the name of the site where the active server is located (counters read in this server) and the cluster number (cluster no. 2 for "single-cluster" systems).

CLASS

shows the number of the class.

THROUGPT

Shows the current flow (in kbit/s).

MAX

Shows the maximum current flow reached.

NO CRIT

Shows the number of calls in a critical area.

NB REF

Shows the numer of calls refused.

4.7.8.3 CENTERS COUNTERS REINITIALIZATION (MENU 4-7-8-3)

☞ For the Call Manager (F5): Menu 4-7-3-3 (Centers counters reinitialization)

IMPORTANT: *This menu only appears if the PBX is configured in multi-site mode (menu 3.6 - Parameters management).*

```
CENTERS COUNTERS REINITIALIZATION

          ACTIVE SERVER: 001-SITE LOC, CCU: 2

          COUNTRES:MAXIMUM FLOW REACHED   YES
          CRITICAL AREA CALLS COUNTERS    NO
          REFUSED CALL COUNTERS           NO
          FOR THE CENTRE                02-centre_2
          CONFIRMATION                        YES
          ----------------------------------------
```

Figure 130: Reset the centre counters

This menu is used to reset all or some of the CAC server counters on a centre-by-centre basis.

Current throughput counters cannot be reset.

ACTIVE SERVER: XXXXX, CCU: ZZ

This line shows the name of the site where the active server and cluster number are located.

Note: *The user resets the counters of the site and cluster indicated in this line and in this way does not have to change the status of the local tables.*

COUNTRES:MAXIMUM FLOW REACHED

NO **YES**

If you select YES the counters are reset.

CRITICAL AREA CALLS COUNTERS

NO **YES**

If you select YES the counters are reset.

REFUSED CALL COUNTERS

NO **YES**

If you select YES the counters are reset.

FOR THE CENTRE

Select the name of a centre from those available. If you wish to reset the tables for all centres, simply select " ……." .

CONFIRMATION

NO **YES**

If you select YES reset of the desired counters is confirmed.

4.7.8.4 CAC CLASS COUNTERS REINITIALIZATION (MENU 4-7-8-4)

☞ For the Call Manager (F5): Menu 4-7-3-4 (Class counters reinitialization)

```
CLASS COUNTERS REINITIALIZATION

          ACTIVE SERVER: 001-SITE LOC, CCU: 2

          COUNTRES:MAXIMUM FLOW REACHED       YES
          CRITICAL AREA CALLS COUNTERS        NO
          REFUSED CALL COUNTERS               YES
          FOR THE CLASS                       ...
          CONFIRMATION                        YES
          ----------------------------------------
```

Figure 131: Reset class counters

This menu is used to reset all or some of the CAC server counters on a CAC class basis.

Current throughput counters cannot be reset.

ACTIVE SERVER: XXXXX, CCU: ZZ

This line shows the name of the site where the active server and cluster number are located.

Note: *The user resets the counters of the site and cluster indicated in this line and in this way does not have to change the status of the local tables.*

COUNTRES:MAXIMUM FLOW REACHED

NO **YES**

If you select YES the counters are reset.

CRITICAL AREA CALLS COUNTERS

NO **YES**

If you select YES the counters are reset.

REFUSED CALL COUNTERS

NO **YES**

If you select YES the counters are reset.

FOR THE CLASS

Select the name of a class from those available. If you wish to reset the tables for all CAC classes, simply select " ……." .

CONFIRMATION

NO **YES**

If you select YES reset of the desired counters is confirmed.

4.7.8.5 CAC SERVERS STATUS (MENU 4-7-8-5)

☞ For the Call Manager (F5): Menu 4-7-3-5 (CAC servers status)

IMPORTANT: *This menu only appears if the PBX is configured in multi-site mode (menu 3.6 - Parameters management).*

```
CAC SERVERS STATUS

          CENTER             MAIN         SECONDARY
          ------------------------------------------------
          01-CENTRE1         001-SITE1          002-SITE2
          02-CENTRE2         001-SITE1          002-SITE2
          03-CENTRE3         003-SITE3          004-SITE4
          04-CENTRE4         ........           ........
          05-CENTRE5         ........           ........
          06-CENTRE6         ........           ........

          ------------------------------------------------
```

Figure 132 : CAC servers status

This menu is used to display the status of all the CAC servers in a multi-site configuration. For each center, the site containing the main CAC server and the site containing the secondary CAC server are displayed.

5. INSTALLER DATA (MENU 5)

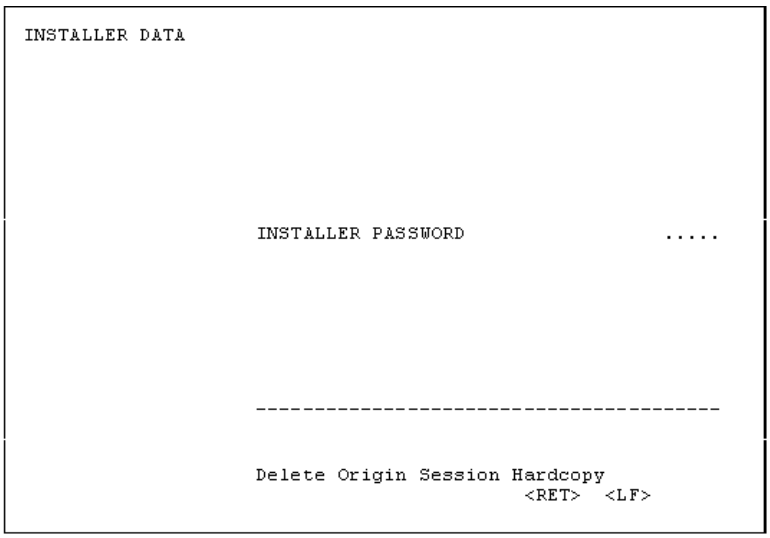


Figure 133: Password for access to installer data

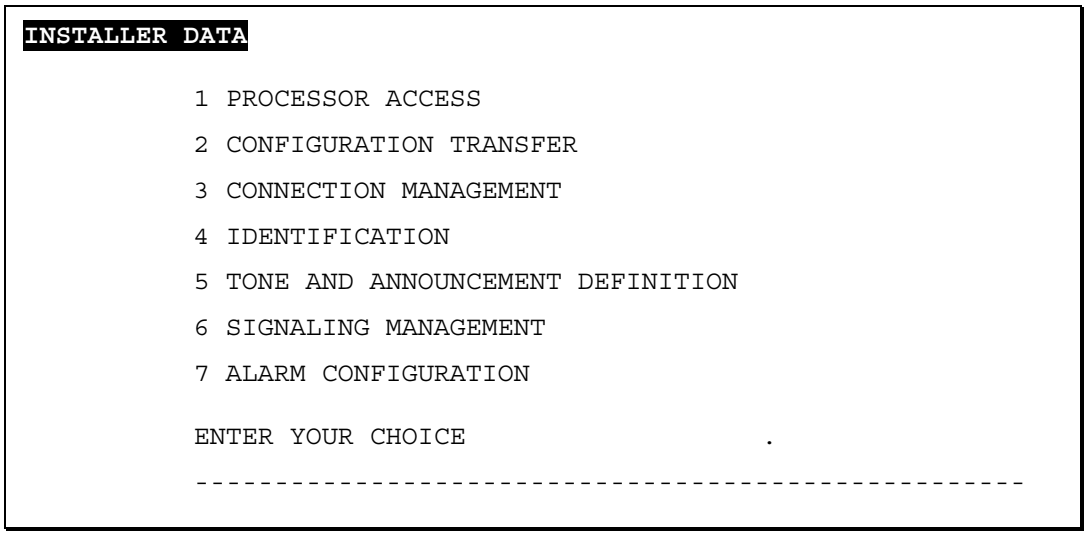


Figure 134: Menu 5 (Installer data).

☞ For the Call Manager (F5): Menu 5 (Installer data)
Levels 2 (Configuration transfer), 3 (Connection management), and 6 (Signaling management) are not available

Note: *Installer data is only available using the Installer access password. To access functions for telephony data, and system management and to access system administration functions, the manufacturer password is required.*

5.1 PROCESSOR ACCESS (MENU 5-1)

☞ For the Call Manager (F5): Menu 5-1 (Processor access).

```
PROCESSOR ACCESS

          1 - FORMAT OF PAS FILES
          2 DISPLAY OF PAS FILES
          3 RESTART REQUEST

          ENTER YOUR CHOICE                    .
          ------------------------------------------------------
```

Figure 135: Menu 5-1 (Processor access).

5.1.1 FORMAT OF PAS FILES (MENU 5-1-1)

☞ For the Call Manager (F5): Menu 5-1-1 (Format of PAS files).

```
   FORMAT OF PAS FILES


              SELECTION OF DESCRIPTOR       100 T.D.D.


              FROM TABLE                              ..


              ----------------------------------------
```

Figure 136: Format of PAS files

PAS files are data files which describe the installation configuration.

This menu is therefore used to display these files by entering the PAS descriptor or the start rank of the table.

All the PAS files are displayed in a fixed list with the descriptor number and name.

5.1.2 DISPLAY OF PAS FILES (MENU 5-1-2)

☞ For the Call Manager (F5): Menu 5-1-2 (Display of PAS files).

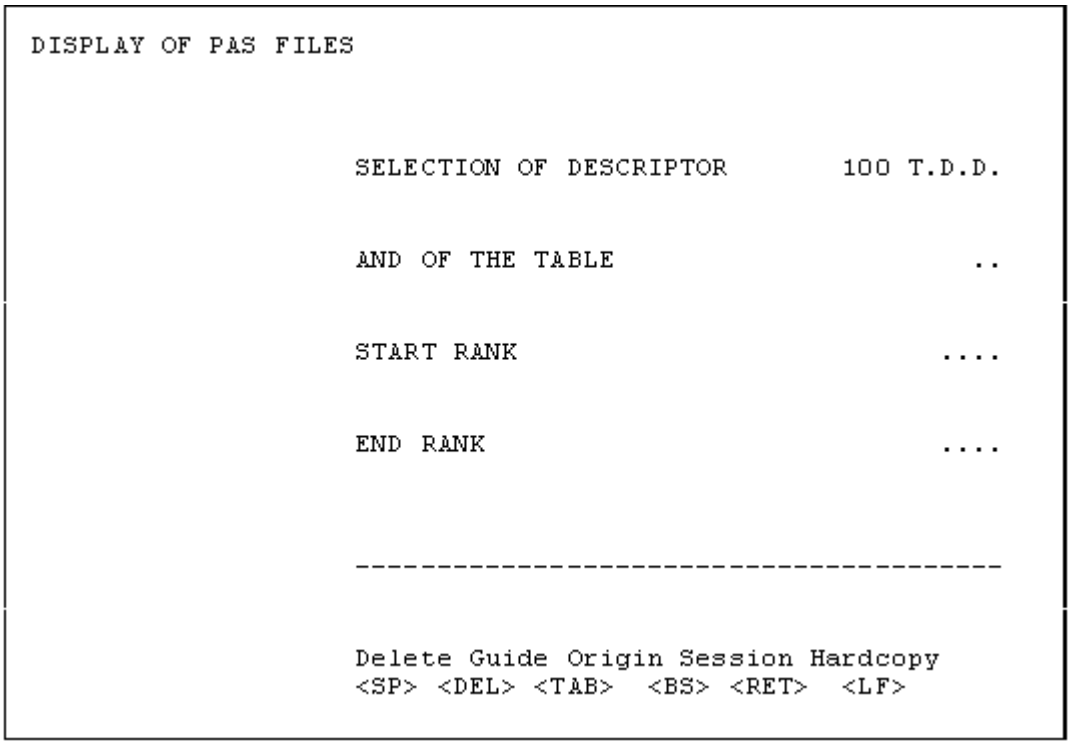


Figure 137: Display of PAS files

This MMC is used to display the address and contents of an element in a given table.

Selection is by entering the PAS descriptor, the table number, and element rank (giving the element rank is optional).

If the rank is not specified, the MMC selects the first element in the table. For a key code table, the screen displays both the address and the contents of the key code and the address and contents of the structure associated with the key code.

At the top of the screen, the user interface indicates the format of the table (see previous paragraph). Tables with two indexes are displayed in the same way as tables with a single index: the number is the result of multiplying the two indexes together.

For key code tables and tables with two indexes, the key code section of the table which is common to x elements in the sub-table is repeated for each element (customised abbreviated number, etc.).

5.1.3 RESTART REQUEST (MENU 5-1-3)

☞ For the Call Manager (F5): Menu 5-1-3 (Restart request).

```
RESTART REQUEST

     ACTIVE DATA   DATA FILE 0
     -F6V151 DonF.1AedH 03 FRA 01/01/00 00:02
     INACTIVE DATA   DATA FILE 1
     -F6V152 DonF.2AedR 03 FRA 03/01/00 02:30
     R.ACTIVE   VALID F.1AedH  01/01/00 00:01
     R.INACTIVE ...... F.1CedD  ..............

     RESTART TYPE                  STANDARD

     LOADED DATA                   SAVED RAM

     RESTART CONFIRMATION          YES

     SECURISATION                        NOT ACTIVATED

     ----------------------------------------
```

Figure 138: Restart request

ACTIVE DATA DATA FILE 0
–FILE NAME SOFTWARE RELEASE DATE TIME

Read-only line. Indicates the name of the active file and the date and time when the file was last saved.

INACTIVE DATA DATA FILE 1
–FILE NAME SOFTWARE RELEASE DATE TIME

Read-only line. Indicates the name of the inactive file and the date and time when the file was last saved.

R.ACTIVE STATUS COMMERCIAL CODE DATE TIME

Read-only line. Indicates the status of the active directory (validated, test) and the corresponding commercial code as well as the date and time of the validation.

R.INACTIVE STATUS COMMERCIAL CODE DATE TIME

Read-only line. Indicates the status of the inactive directory (validated, test) and the corresponding commercial code as well as the date and time of the validation.

CONFIRM ACTIVE

NO **YES**

Select YES to validate the active directory. The new version is accepted and moves from test status to validated status.

DIRECTORY ACTION CONFIRM

NO **YES**

Select YES to confirm the action on the active directory.

RESTART TYPE

STANDARD **••••••••**

Select Standard as the restart type.

LOADED DATA

Read-only line indicating the data to be saved.

RESTART CONFIRMATION

NO **YES**

Select YES to confirm the restart: the PBX will restart automatically.

SECURISATION

Note: *This line is only displayed for the NeXspan C/S/L range.*

In the NeXspan C/S/L range, you may be required to restart the system in secure mode during update, restore, patch loading and switchover management operations from M7425 Enterprise (for further information, see the M7425 Enterprise User Manual – Basic functions).

On NeXspan C/S/L, two versions are kept in the memory: an active version and an inactive version. During a switchover, version N-1 is kept on the PBX as inactive version, which makes it possible, in case of failure, to return to the previous version. When the secured mode is started, a test phase takes place. The duration of the test period, as well as the time remaining before software release validation, is then displayed. At the end of the test phase, if the tests are positive, version N is validated, otherwise there is a return to version N-1.

This line, in read-only mode, is used to view the security mode started from the management center:

INACTIVATE	Secured restart not activated.
IMPLICIT VALIDATION	At the end of the test phase, if the tests are positive, version N is automatically validated.
BACKWARD	At the end of the test phase, there is automatic return to version N-1.

TO PERFORM A TOTAL RESET:

> **IMPORTANT:** *A total reset clears all data from existing programming. The system is then configured automatically with the equipment installed.*

1. On the line "Restart type", select "Standard" and press Enter to confirm.
2. On the line "Restart confirmation", select "YES" and press Enter to confirm.
3. Enter "CO" while the startup tests are being performed.
4. Several tests are displayed then the system requests a password. Enter the default password "TOTAL". Press Enter to confirm.

> **Note:** *If no password is requested, repeat the reset operation.*

5. Wait for the system to run the test series, detect the installed cards, and configure itself automatically. This will take a few minutes. The system has reset successfully when the main menu is displayed.

5.2 CONFIGURATION TRANSFER (MENU 5-2)

☞ For the Call Manager (F5): this menu is not available.

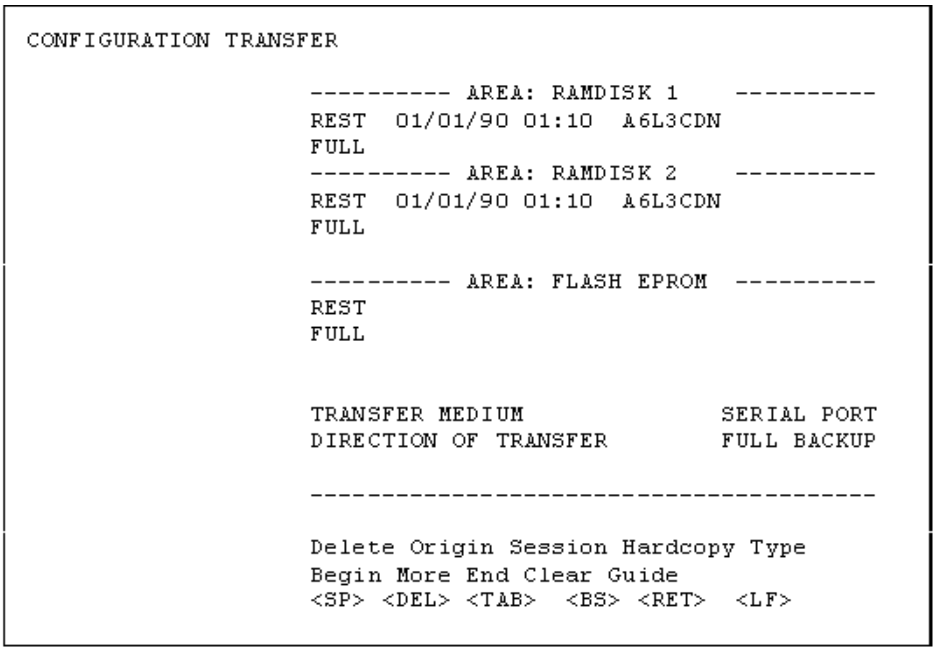


Figure 139: Menu 5-2 (Configuration transfer)

RAM DISK1 and 2 areas contain the DATA (including directory data). These fields indicate the date and time of the last locked RAM restore/backup operations.

The FLASH EPROM area indicates the date and time of the FLASH EPROM restore/backup operations. This area contains the software application code.

TRANSFER MEDIUM

SERIAL PORT **PARALLEL PORT**

Select the transfer medium:

- serial port: via a CPU card connector
- parallel port: using an additional loading card

DIRECTION OF TRANSFER

FULL BACKUP **RESTORE**

Select the transfer direction: full backup or restore.

5.2.1 SERIAL PORT CONFIGURATION TRANSFER

When you validate the serial port as the transfer medium, the following screen is displayed:

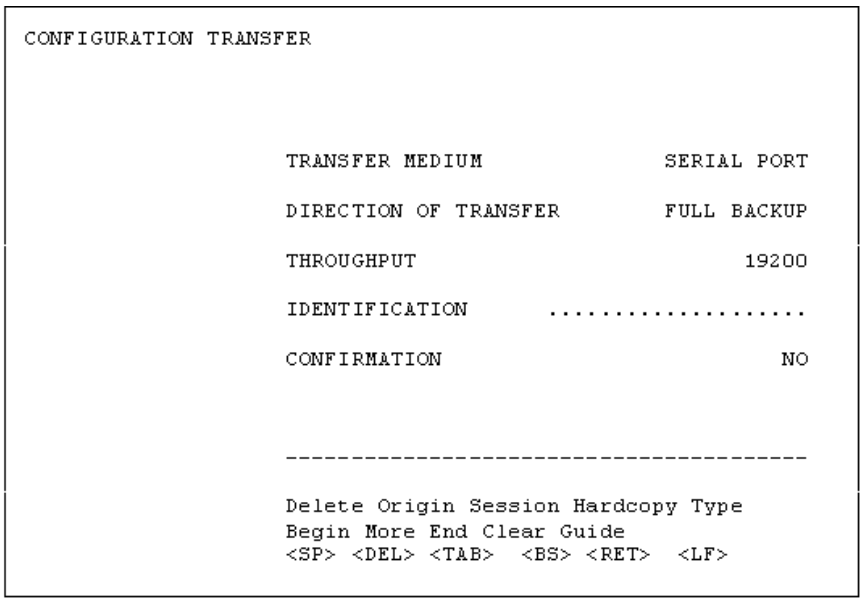


Figure 140: Serial port configuration transfer

THROUGHPUT

300 **1200** **2400** **4800** **9600** **19200** **38400** **57600** **115200**

Select the transfer rate (in bauds).

IDENTIFICATION

Enter in this field the identification of the item to be transferred.

CONFIRMATION

NO **YES**

Select YES to validate the throughput and the item identification.

Note: *On restart, the system will reset automatically.*

5.2.2 PARALLEL PORT CONFIGURATION TRANSFER

When you validate the parallel port as the transfer medium, the following screen is displayed.

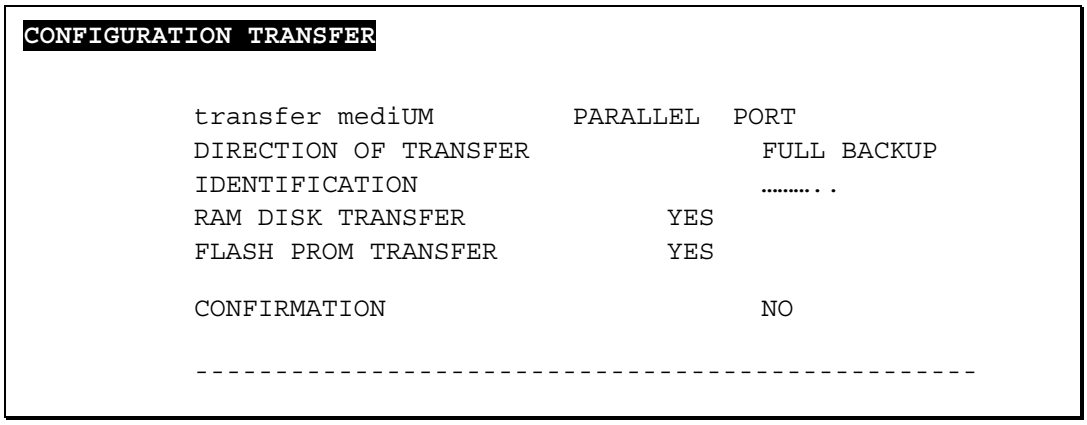


Figure 141: Parallel transfer of the configuration

IDENTIFICATION

Enter in this field the identification of the item to be transferred.

RAM DISK TRANSFER

NO **YES**

If you enter YES, customer data is transferred.

FLASH PROM TRANSFER

NO **YES**

If you enter YES, the application software is transferred.

CAUTION: *This file can be up to several megabytes in size.*

5.3 CONNECTION MANAGEMENT (MENU 5-3) NOT IN VALUES

☞ For the Call Manager (F5): this menu is not available.

```
CONNECTION MANAGEMENT

          CALL 1
          - PHYSICAL SLOT A       …..
          - PHYSICAL SLOT B       …..
          - PHYSICAL SLOT C       …..
          - TONE                  SILENCE
          - COMMAND TYPE          disconnect.

          CALL 2
          - PHYSICAL SLOT A       …..
          - PHYSICAL SLOT B       …..
          - PHYSICAL SLOT C       …..
          - TONE                  SILENCE
          - COMMAND TYPE          disconnect.

          ------------------------------------------------
```

Figure 142: Menu 5-3 (Connection management)

This menu is used to set up unilateral, bilateral or 3-party connections between designated circuits on tones, on demand.

This menu offers the possibility of setting up 2 separate calls and to check the PBX transmission plan, between TRK -> SET and SET -> TRK (PSTN check).

CALL 1

PHYSICAL SLOT A

Indicate the physical slot of the first equipment for the first call.

PHYSICAL SLOT B

Indicate the physical slot of the second equipment for the first call.

PHYSICAL SLOT C

Indicate the physical slot of the third equipment for the first call.

TONE

SILENCE	**TONE 330 HZ**	**TONE 440 HZ HIGH**	**TONE 440 HZ LOW**
TONE 440 + 330 HZ	**INTERNAL MUSIC**	**EXTERNAL MUSIC**	

Select the type of tone (call 1).

COMMAND TYPE

DISCONNECT.	CONNECT A --> B	CONNECTION B --> A
CONNECTION A <--> B	CONNECTION TONE --> A	CONFERENCE A-B-C
CONF A TR, B/C REC	A LOOP B1 CHANNEL	A LOOP B2 CHANNEL

On this line, indicate the type of connection to be set up (call 1).

CALL 2

PHYSICAL SLOT A

Indicate the physical slot of the first equipment for the second call.

PHYSICAL SLOT B

Indicate the physical slot of the second equipment for the second call.

PHYSICAL SLOT C

Indicate the physical slot of the third equipment for the second call.

TONE

SILENCE	TONE 330 HZ	TONE 440 HZ HIGH	TONE 440 HZ LOW
TONE 440 + 330 HZ	INTERNAL MUSIC	EXTERNAL MUSIC	

Select the type of tone (call 2).

COMMAND TYPE

DISCONNECT.	CONNECT A --> B	CONNECTION B --> A
CONNECTION A <--> B	CONNECTION TONE --> A	CONFERENCE A-B-C
CONF A TR, B/C REC	A LOOP B1 CHANNEL	A LOOP B2 CHANNEL

On this line, indicate the type of connection to be set up (call 2).

5.4 IDENTIFICATION (MENU 5-4)

```
IDENTIFICATION

     1     SOFTWARE IDENTIFICATION

     2     DISPLAY DIGITAL SET NAMES

     3     MANAGEMENT OF DIGITAL SET NAMES

     ENTER YOUR CHOICE             .
     ------------------------------------------------
```

Figure 143: Identification (F1)

```
IDENTIFICATION

     1     SOFTWARE IDENTIFICATION

     2     HARDWARE IDENTIFICATION

     3     DISPLAY DIGITAL SET NAMES

     4     MANAGEMENT OF DIGITAL SET NAMES

     ENTER YOUR CHOICE             .
     ------------------------------------------------
```

Figure 144: Identification (F6)

☞ For the Call Manager (F5): Menu 5-2 (Identification). The menus "Hardware identification", "Display digital set names" and "Management of digital set names" are not available.

5.4.1 SOFTWARE IDENTIFICATION (MENU 5-4-1)

☞ For the Call Manager (F5): Menu 5-2 (Identification).

5.4.1.1 M6501L/R IP PBX (F1)

```
SOFTWARE IDENTIFICATION

        IDENTIFICATION      M7500-0

        SYSTEM PROM         OT3V116   Gen.B6Aed3 02 FRA

        BOOT PROM. APPLIC.  F1VV116   GenB.6Bed2 02 FRA

        0-0   S0 S0 ISDN    HX2456    Gen2.1Aed3 02 FRA
        0-1   S0 S0 ISDN    HX2456    Gen2.1Aed3 02 FRA
        0-5   LS2 ISDN T    HX3612    Gen2.1Aed2 02 FRA
        1-0   CA1           HX2457    Gen1.3Aed1 02 FRA

        MMI LANGUAGE:   FR-Francais GB-English
        DS. LANGUAGE :   FrancaisEnglish Deutsch
```

Figure 145: Software identification (F1)

Note: *For M6501L/R PBXs, this screen also indicates the software release installed on the coprocessor cards if they are not downloaded.*

Example:

0-0	S0 S0 ISDN	HX2456	Gen 2.1- ed3
Card position	Card Type	Card PROM identifier	Software generation

5.4.1.2 M6504/M6540 IP PBX (F2)

```
SOFTWARE IDENTIFICATION

      IDENTIFICATION          M7500-0

      SYSTEM PROM ODYV116 Gen.B6Aed3 02 FRA

      BOOT PROM. APPLIC.      FOVV116 GenB.6Bed2 02 FRA

       MMI LANGUAGE:   FR-Francais GB-English
       DS. LANGUAGE :  FrancaisEnglish Deutsch
```

Figure 146: Software identification (F2)

This screen indicates the software release installed on the OCx card (OCI).

IDENTIFICATION

M75XY_Z: indicates the software identification

- 75 : software type
- XY: installable declaration year
- Z: version

SYSTEM PROM

This field indicates the software release of the PROM system installed on the OCx card.

The Identifier GX . YA . ed. . n . FF . PP is interpreted as follows:

- G: generation
- X: functional range
- A: production edition
- n: edition correction step
- FF: product family code
- PP: country code

APPLIC. PROM

This field indicates the software application loaded in flash EPROM (same identifier as for the SYSTEM PROM field).

MMI LANGUAGE

This field shows the two languages available for the MMIs.

DS. LANGUAGE

This field shows the three languages available on digital sets.

5.4.1.3 XL, XS ET XC (F6)

```
SOFTWARE IDENTIFICATION

     BOOT PROM. BOOT      BUT1V11Gen1.1AedB 03 FRA
     ACTIVE DIRECTORY
     Soft.Rel. 3.1               VALID
     000 UT1V151GenF.1AedJ 03 FRA SYSTEM +
     001 F6V151 GenF.1AedJ 03 FRA APPLIC +
     002 F6V151 RamF.1AedJ 03 FRA RAMDISK +

     MMI LANGUAGE:   FR-Francais GB-English
     DS. LANGUAGE :   FrancaisEnglish Deutsch

     0-08 TMS        TMS  3 XF01 V0.5
     1-01 PTx 32 VOI PT2V41 Gen4.1Aed7 02 FRA
     1-07 LA16X 16 A ANA   XF01 V1.0

     ---------------------------------------
```

Figure 147: Software identification (XL)

This menu shows:

- the software release installed on the card
- the composition of the active directory (production, elementary ML overloads, patches) and its status (validated, test)
- the two languages available for the MMIs
- the three languages available on digital sets
- the software releases of the cards.

5.4.2 HARDWARE IDENTIFICATION (MENU 5-4-2)

☞ For the Call Manager (F5): this menu is not available.

IMPORTANT: *This menu is only displayed for XL/XS/XC systems (F6).*

This menu is used to display the hardware status of a PBX (slots of cards installed in PBX, card type, item code, serial number, quantity, etc.)

```
HARDWARE IDENTIFICATION

     FROM THE EQUIPMENT              ...


     ---------------------------------------
```

Figure 148: Hardware identification (F6)

FROM THE EQUIPMENT

Enter the slot from which the hardware identification is made. For a hardware identification of the entire PBX (including CPU card), leave the field empty and press Enter to validate.

Note: *In an XL, the slots are numbered from 100 to 113 (main cabinet), from 200 to 213 (first expansion cabinet) and from 300 to 313 (second expansion cabinet). In an XS, the slots are numbered from 100 to 102 (main cabinet) and from 200 to 202 (expansion cabinet).*

Press Enter to confirm. The following window opens.

```
HARDWARE IDENTIFICATION

     UCT.-UCT1L
          CNMHJ4612AA01     NMNMP031001995
          LAN      1      1
          SYNC     1      1
          HDLC     1      1
          TMS      3      1
          MEVO     1      4
          MEMO     1  32768
          ITTS     1     24
          MEMF     1  16384
          LPT      1      1
          RAM      1  32768
          FLASH    1  32768
          SRAM     1   2048
          DPRAM    1    256
     ---------------------------------------
```

Figure 149: Hardware identification (example of an XL cabinet)

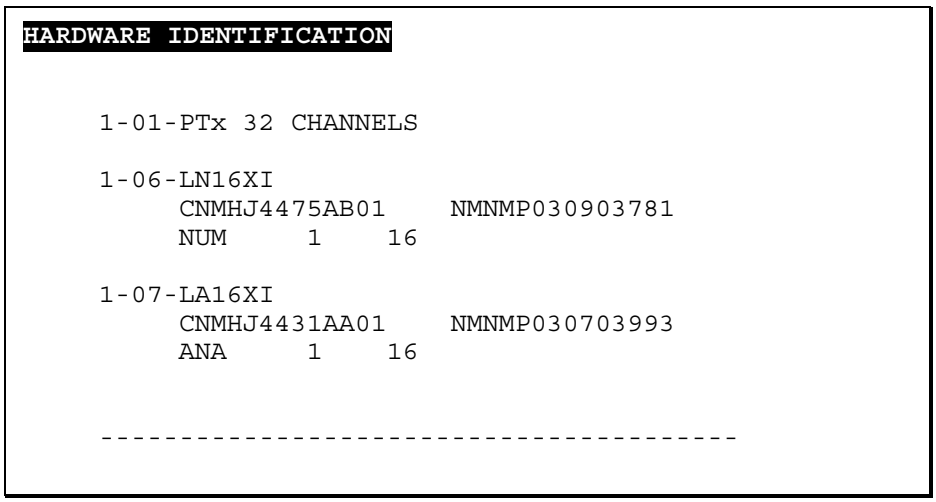


Figure 150: Hardware identification (example of an XL cabinet)

The cards installed in the PBX are listed from the slot selected. The following information is displayed for each slot occupied:

- position of the card in the PBX (no slot indicated for UCT card)
- card type (UCT, LA16X, PTx, etc.)
- card item code
- serial number
- resource name
- variant number (factory number)
- quantity.

Example:

1-06 Card position	LN16X Type of card	
CNMHHJ4475AB01 item code	NMNMP030903781 Serial number	
NUM Resource	1 Variant	16 Quantity

5.4.3 DISPLAY DIGITAL SET NAMES (MENU 5-4-2 ON F1/F2 AND 5-4-3 ON F6)

☞ For the Call Manager (F5): this menu is not available.

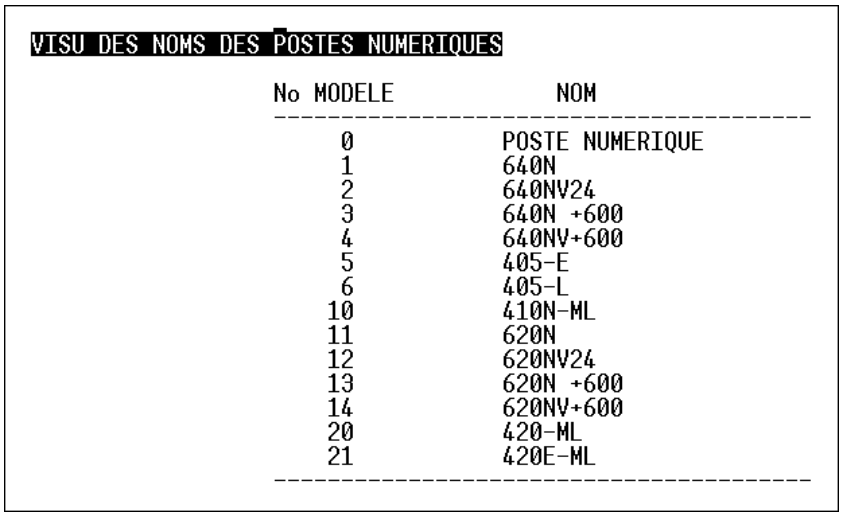


Figure 151: Display digital set names

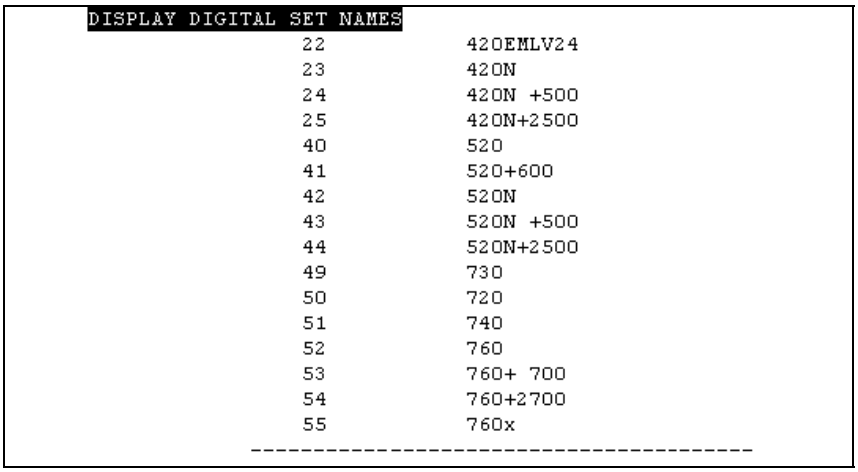


Figure 152: Display digital set names (continued)

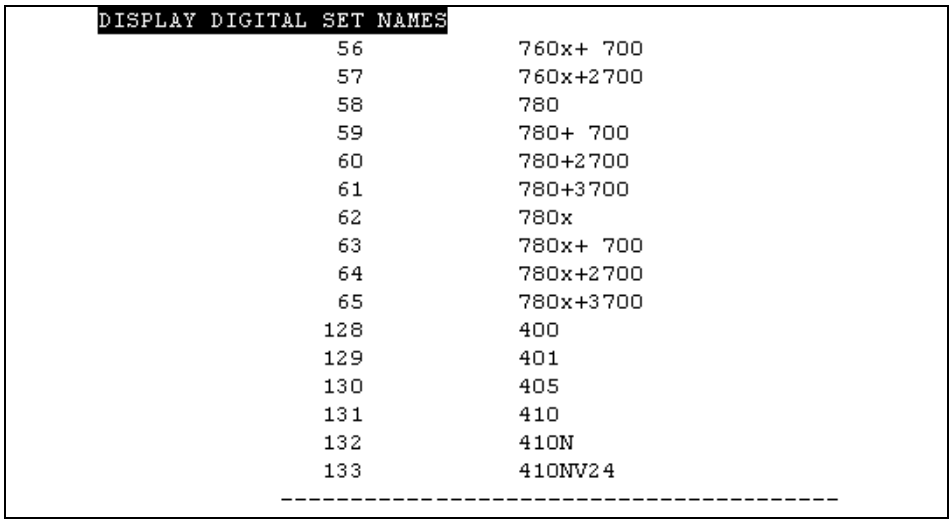


Figure 153: Display digital set names (continued)

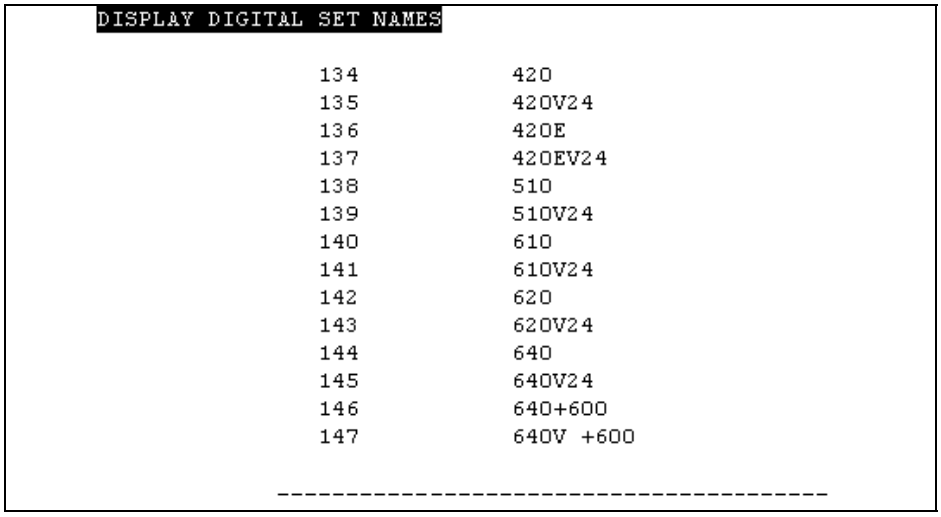


Figure 154: Display digital set names (end)

These screens display the correspondence between the model numbers of the digital sets and the names by which they are identified.

MODEL No.

The set model number.

NAME

The name allocated to the model number.

5.4.4 MANAGEMENT OF DIGITAL SET NAMES (MENU 5-4-3 ON F1/F2 AND 5-4-4 ON F6)

☞ For the Call Manager (F5): this menu is not available.

```
MODIFICATION OF DIGITAL SET NAMES


                    MODEL NO.                              ...


                    NAME TO BE ASSIGNED ....................


                    ACTION                              ........


                    ----------------------------------------


                    Delete Origin Session Hardcopy
                                          <RET>  <LF>
```

Figure 155: Modification of digital set names

This menu is used to add new names to the list in the event of release of new telephones on the market or to customise the set names according to the distributor.

Each set model is designated by a name which is shown when the extension characteristics are displayed.

MODEL NO.

Enter the model number using 3 digits.

> **Note:** *If the number has not already been defined, the associated name is displayed automatically.*

NAME TO BE ASSIGNED

Enter the name to be assigned to the model using up to 20 characters.

ACTION

Select the current type of action: add modify, or delete.

> **Note:** *The name is assigned when the field Action is validated.*

5.5 TONE AND ANNOUNCEMENT DEFINITION (MENU 5-5)

☞ For the Call Manager (F5): Menu 5-3 (Tone and announcement definition). Levels 1 (Tone definition), 2 (Announcements on VOCT CC1 BVF) and 8 (External music level adjust.) are not available.

Pre-recorded messages are sound files (.wav) linked to system tones. The tones correspond to the different states of a telephone call. A pre-recorded message or music can be linked to each PBX system tone. The PBX supports 128 tones (numbered from 0 to 127) divided up as follows:

- 80 so-called system tones (from 0 to 63 and 112 to 127)
- 48 definable tones (from 64 to 111) for customising pre-recorded messages depending on the spoken language or the company/department pair.

Menu 5-5 is used to configure the various tones, taking into account the fact that the voice cards which manage the messages differ according to the PBX generation and family (F1/F2/F6).

- **F1/F2**

If the first generation proposes a static character to manage the connection matrix, the second generation will manage this matrix with a dynamic character.

PBX Type	1st gen. card	2nd gen. card	Daughter card
F1: M6501L/R IP PBX	VOCT	BVF/BVF2	FBVF/FBVF2
F2: M6504/M6540 IP PBX	VOCH	CCS	

Figure 156: Voice cards of the various PBX families (F1/F2)

The optional daughter card features a melody, a recordable RAM message of variable duration (16, 32, or 64 seconds), and 8 PROM messages.

The tone can be replaced by an announcement which comes from various origins: an optional card, an analogue subscriber card, or a CCS card (F2). The CCS card features synchronised messages: the user therefore hears the message from the beginning.

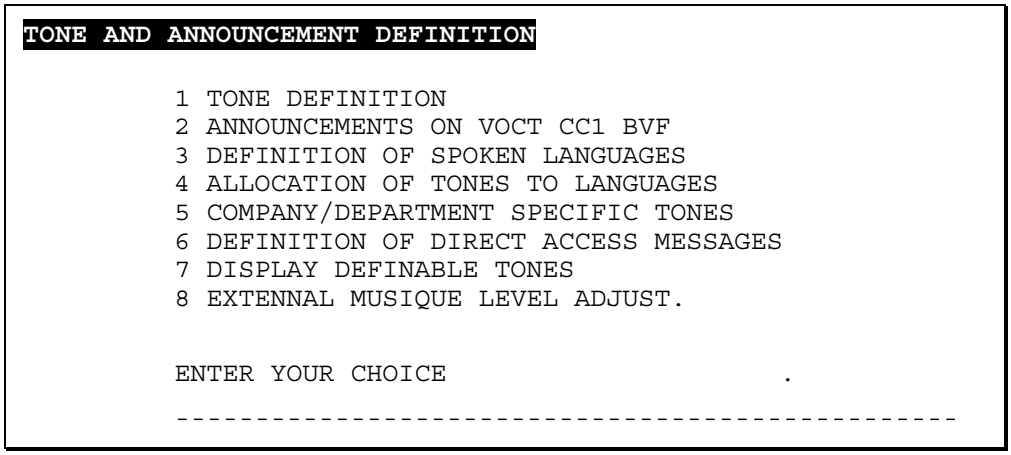


Figure 157: Menu 5-5 (Tone and announcement definition - F1).

```
TONE AND ANNOUNCEMENT DEFINITION

          1 TONE DEFINITION
          2 ANNOUNCEMENT MESSAGES ON SVF-BVF
          3 DEFINITION OF SPOKEN LANGUAGES
          4 ALLOCATION OF TONES TO LANGUAGES
          5 COMPANY/DEPARTMENT SPECIFIC TONES
          6 DEFINITION OF DIRECT ACCESS MESSAGES
          7 DISPLAY DEFINABLE TONES


          ENTER YOUR CHOICE                    .
          ------------------------------------------------
```

Figure 158: Menu 5-5 (Tone and announcement definition - F2).

- **F6 (XL, XS and XC)**

In XL/XS/XC cabinets, the pre-recorded messages and announcements are integrated in the CPU card:

PBX Type	CPU card	Daughter card
XL	UCT-L	2 FMEVO
XS	UCT-S	1 FMEVO
XC	UCT-C	

Table 1: X range (XL, XS and XC) voice cards

FMEVO daughter cards do not alter the capacity of synchronous announcements (they each provide 2 additional IVB voicemail channels).

```
TONE AND ANNOUNCEMENT DEFINITION

          1 TONE DEFINITION
          2 ANNOUNCEMENT MESSAGES ON SVF-BVF
          3 DEFINITION OF SPOKEN LANGUAGES
          4 ALLOCATION OF TONES TO LANGUAGES
          5 COMPANY/DEPARTMENT SPECIFIC TONES
          6 DEFINITION OF DIRECT ACCESS MESSAGES
          7 DISPLAY DEFINABLE TONES
          8 EXTENNAL MUSIQUE LEVEL ADJUST.

          ENTER YOUR CHOICE                    .

          ------------------------------------------------
```

Figure 159: Menu 5-5 (Tone and announcement definition - F6).

5.5.1 TONE AND ANNOUNCEMENT DEFINITION (MENU 5-5-1)

☞ For the Call Manager (F5): this menu is not available.

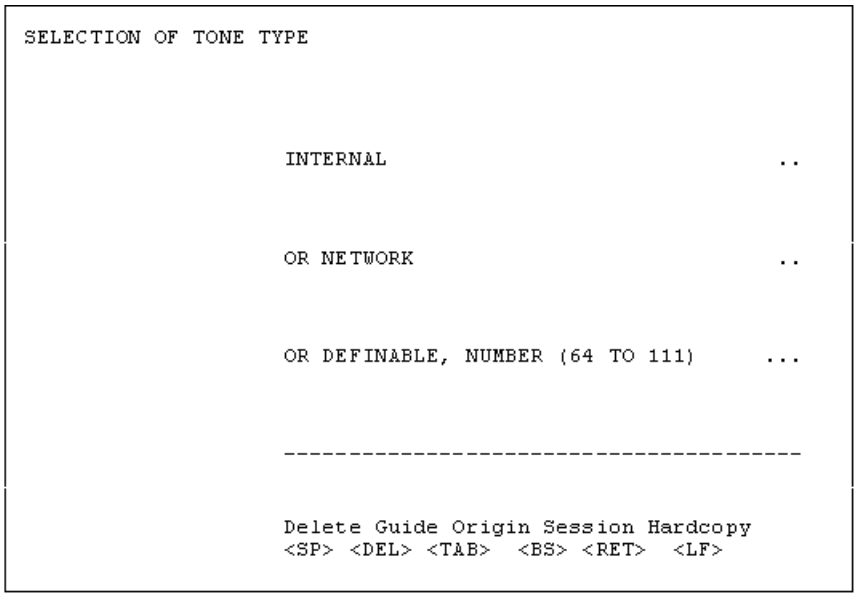


Figure 160: Selection of tone type

Menu 5-5-1 is used to configure the various tones and link them to pre-recorded messages, by indicating the card type supporting the messages (CC1, BVF, CCS, SVF-BVF), the slot number of the card in the PBX and the number of the message linked to the tone.

INTERNAL

NORMAL DIAL TONE	EXTERNAL DIAL TONE	INTERNAT. DIAL TONE
ROUTING	ON BUSY	INTERNAL ON HOLD TONE
INTRUSION TONE	WARNING	INTERN. RINGBACK TONE
NETWORK RINGBACK TONE	INTERNAL EXT. O.S.	EXTERNAL O.S..
RESTRICTION FAIL	PROGRAM AGENDA TONE	CALL ACCEPTED TONE
CONGESTION TONE	UNKNOWN NUMBER TONE	ENTER PASSWORD
WAKE-UP RECALL	MSG IN BOX	ZERO CREDIT
MINIMUM CREDIT	CONSULT. CALL INTRUS.	SINGLE CALL INTRUSION
CONSULT. CALL NO INTR.	SINGLE CALL NO INTR.	D.N.D ACTIV
VAR FRWD ACTIV	AUTO CALLBACK ACTIV	PREDEF. CBACK ACTIV
DISA PASSWORD	DIRECTORY ENQUIRY	

NORMAL DIAL TONE	Internal tone
EXTERNAL DIAL TONE	Dial tone on external line
INTERNAT. DIAL TONE	International dial tone
ROUTING	Call routing in progress (silence)
ON BUSY	Busy
INTERNAL ON HOLD TONE	Internal on-hold tone
INTRUSION TONE	Interrupt during call
WARNING	Warning
INTERN. RINGBACK TONE	Automatic internal callback
NETWORK RINGBACK TONE	Automatic network or tie-line callback
INTERNAL EXT. O.S.	Internal extension out of service
EXTERNAL O.S..	External line out of service
RESTRICTION FAIL	Barred number, call not allowed
PROGRAM AGENDA TONE	Programmed reminder
CALL ACCEPTED TONE	Function accepted
CONGESTION TONE	Overflow, call cannot be connected
UNKNOWN number TONE	Number unknown
ENTER PASSWORD	Personal code
WAKE-UP RECALL	Automatic callback requested
MSG IN BOX	Voicemail waiting
ZERO CREDIT	Prepayment empty
MINIMUM CREDIT	Prepayment nearly empty
CONSULT. CALL INTRUS.	Enquiry call with intrusion privilege
SINGLE CALL INTRUSION	Single call with intrusion privilege
CONSULT. CALL NO INTR.	Enquiry call without intrusion privilege

SINGLE CALL NO INTR.	Single call without intrusion privilege
D.N.D ACTIV	Do not disturb activated
VAR FRWD ACTIV	Variable forwarding activated
AUTO CALLBACK ACTIV	Automatic callback activated
PREDEF. CBACK ACTIV	Predefined automatic callback activated
DISA PASSWORD	Personal code for DISA
DIRECTORY ENQUIRY	Directory enquiry

Select an internal tone.

OR NETWORK

EXTERNAL DIAL TONE	**INTERNAL ON HOLD TONE**	**NETWORK HOLD**	**BF ANS: EXT FREE**
BF ANS: FWD OPCO FREE	**AF ANS: EXT free**	**AF ANS: opco FREE**	**BF ANS: ext busy**
AP REP AB OCC	**BF DAY RING**	**BF NIGHT RING**	**MEET-ME PAGING**
BF ANS: DAY DISSUA	**BF ANS: NIGHT DISSUA**	**AF ANS: DAY DISSUA**	**AF ANS: NIGHT DISSUA**

EXTERNAL DIAL TONE	Dial tone on external line
INTERNAL ON HOLD TONE	Internal on-hold tone
NETWORK HOLD	Network on-hold tone
BF ANS: EXT free	Ringing before answer on free extension (subscriber or operator)
BF ANS: fwd OPco free	Ringing before answer on free CAP (Central Answering Position) or night console extension number
AF ANS: EXT FREE	Ringing after answer on free extension (subscriber or operator)
AF ANS: OPCO FREE	Ringing after answer on free CAP or night console extension number

BF ANS: EXT BUSY	Ringing before answer on busy extension
AP REP AB OCC	Tone after answer on busy extension
BF DAY RING	Ringing before answer on day service
BF NIGHT RING	Ringing before answer on night service
MEET-ME PAGING	Awaiting response from person paged
BF ANS: DAY DISSUA	Dissuasion before answer on day service
BF ANS: NIGHT DISSUA	Dissuasion before answer on night service
AF ANS: DAY DISSUA	Dissuasion after answer on day service
AF ANS: NIGHT DISSUA	Dissuasion after answer on night service

Select a network tone.

Note: *The tones can be customised in multi-company configuration in the same was as announcements can be customised according to the user's language.*

OR DEFINABLE, NUMBER (64 TO 111)

Enter the number of a definable tone in 3 digits (from 64 to 111). These tones are unused on system start-up.

When created, a definable tone replaces an existing tone.

To select a definable tone you need to run the following MMCs:

- menu Allocation of tones to languages
- menu Company/department specific tones

These allocations are valid for both operation types: single and multi-company.

5.5.1.1 SELECTION OF A TONE

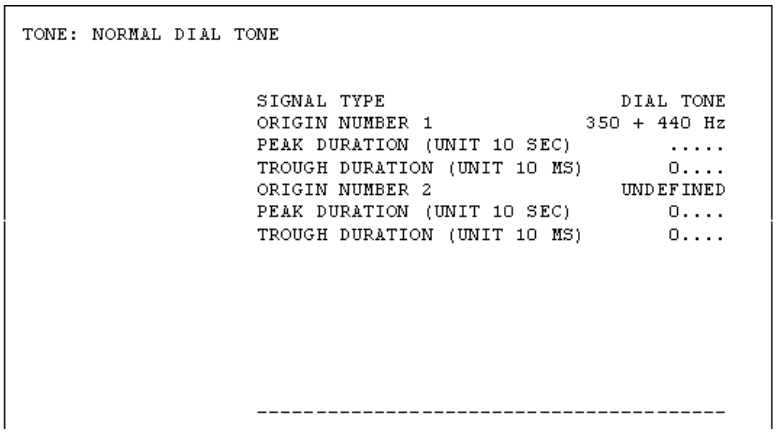


Figure 161: Normal dial tone

SIGNAL TYPE

TONE	ANNOUNCEMENT	ANNOUNCEMENT OR TONE	MULTISITE ANNOUNCEMENT

Select the signal type.

IMPORTANT: *When you select DIAL TONE, you can combine origins (numbers 1 and 2) in the menu. However, when you select ANNOUNCEMENT, you only have one origin ANNOUNCEMENT FROM. In this latter case, this new selection appears on screen.*

ORIGIN NUMBER 1

TONE 330 HZ	TONE 440 HZ HIGH	TONE 440 HZ LOW	TONE 440 + 330 HZ
*MUSIC	**MUSIC	SILENCE	

Select origin number 1 or modify the existing origin.

* INTERNAL MUSIC (1 melody)

** EXTERNAL MUSIC on M6504/M6540 IP PBX

PEAK DURATION (UNIT 10 MS)

Number of 10 ms units for defining peak duration.

TROUGH DURATION (UNIT 10 MS)

Number of 10 ms units for defining trough duration.

ORIGIN NUMBER 2

TONE 330 HZ	TONE 440 HZ HIGH	TONE 440 HZ LOW	TONE 440 + 330 HZ
*MUSIC	**MUSIC	UNDEFINED	SILENCE

Select origin number 2 or modify the existing origin.

* INTERNAL MUSIC (1 melody)

** EXTERNAL MUSIC on M6504/M6540 IP PBX

PEAK DURATION (UNIT 10 MS)

Number of 10 ms units for defining peak duration.

TROUGH DURATION (UNIT 10 MS)

Number of 10 ms units for defining peak duration.

ANNOUNCEMENT FROM

The origin of the announcement. This field presents different options depending on the PBX family (M6501L/R IP or M6504/M6540 IP or XL/XS/XC).

- **M6501L/R IP PBX**

MUSIC	EXT. ANALOGUE	ROM MESSAGE	VOCT3 RAM MESSAGE	CC1/BVF

- **M6504/M6540 IP PBX**

INTERNAL MUSIC	EXT. ANALOGUE	VOCH ROM MESSAGE
VOCH RAM MESSAGE	CCS	

Note: *INTERNAL MUSIC corresponds to one of 8 melodies on the VOCH card (M6504/M6540 IP PBX).*

- **XL/XS/XC**

EXTERNAL MUSIC	ANALOG EXTENS.	FVS-BVF

SLOT/CARD/EQT OR MESSAGE NUMBER

This line is displayed when ANALOG EXTENS. is selected (M6501 L/R IP PBX and XL/XS/XC), CC1/BVF (M6501 L/R IP PBX), SVF-MEVO (XL, XS, XC) or CCS (M6504/M6540 IP PBX).

Enter the card/equipment number to be connected or the message number (from 1 to 8).

OPTION: CAB/CARD/EQT - LISTEN.DEV.（M6501L/R IP PBX AND XL/XS/XC)

This option is used to set up a connection between the equipment which emits the tone (analogue or digital set) and the control equipment.

Enter the cabinet number and the listening device card number (5 digits).

> **Note:** *The field E-TONE indicates that the tone can be put in service. Use a prefix to request that a message be replaced by a tone or vice-versa (see the menu for accessing voice announcement features).*

ANNOUNCEMENT DURATION (SEC)

By default the duration is unlimited. To limit the duration, enter the desired duration here (limiting the listening time releases TSs more rapidly for other synchronised use). It is advisable to take account of the length of the recorded message.

OVERFLOW ON COMMON TIMESLOTS ALLOWED

YES **NO**

Select YES to specify whether the TS output search can use the common TSs on the card (CCS, BVF, SVF-MEVO).

ORIGIN SITE (SIGNAL TYPE: MULTISITE ANNOUNCEMENT)

Select an origin site.

ORIGIN CLUSTER (SIGNAL TYPE: MULTISITE ANNOUNCEMENT)

Enter a numerical value from 2 to 99.

> **Note:** *The MMC does not check that there is a device in the cluster site specified. For an internal site, the cluster number is 2.*

DEVICE NUMBER (SIGNAL TYPE: MULTISITE ANNOUNCEMENT)

Enter a numerical value from 0 to 767.

NUMBER OF AUTHORISED CONNECTIONS (SIGNAL TYPE: MULTISITE ANNOUNCEMENT)

Enter a numerical value from 0 to 32.

Example: Signal type - Tone

```
TONE: BUSY TONE


                    SIGNAL TYPE                      DIAL TONE
                    ORIGIN NUMBER 1               480 + 620 Hz
                    PEAK DURATION (UNIT 10 SEC)         50...
                    TROUGH DURATION (UNIT 10 MS)        50...
                    ORIGIN NUMBER 2               480 + 620 Hz
                    PEAK DURATION (UNIT 10 SEC)         50...
                    TROUGH DURATION (UNIT 10 MS)        50...









                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 162: Busy tone

Example: Signal type – Announcement or Tone

```
TONE: CALL ACCEPTED TONE


                    SIGNAL TYPE          ANNOUNCEMENT OR TONE
                    ORIGIN NUMBER 1               350 + 440 Hz
                    PEAK DURATION (UNIT 10 SEC)         10...
                    TROUGH DURATION (UNIT 10 MS)        10...
                    ORIGIN NUMBER 2               350 + 440 Hz
                    PEAK DURATION (UNIT 10 SEC)         10...
                    TROUGH DURATION (UNIT 10 MS)        10...

                    ANNOUNCEMENT FROM       VOCT ROM MESSAGE
                    SLOT/CARD/EQT OR MESSAGE NUMBER   3.....
                    OPTION: CAB/CARD/EQT - LISTEN.DEV. .....



                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 163: Call accepted tone

5.5.2 ANNOUNCEMENTS (MENU 5-5-2)

☞ For the Call Manager (F5): this menu is not available.

Menu 5-5-2 shows the functions used to manage the messages and announcements recorded on the various voice cards fitted in the different families of PBXs (M6501 L/R IP PBX, M6504/40 IP PBX and XL/XS/XC).

Note: *Card names in this menu may differ depending on your system (see the summary table for the voice cards on the various PBXs).*

♦ **M6501L/R IP PBX (F1) and M6504/M6540 IP PBX (F2)**

```
ANNOUNCEMENTS ON VOCT - CC1 - BVF

        1 VOCT: RECORD RAM MESSAGE
        2 VOCT: LISTEN TO ROM MESSAGES
        3 CC1: ANN MSG LOADING CONNECTION
        4 CC1-BVF: VIEW ANNOUNCEMENTS
        5 CC1-BVF: ANNOUNCEMENT ALLOCATION
        6 CC1-BVF: OBSERVE COUNTERS
        7 CC1-BVF: COUNTERS RESET
        8 BVF: RECORD ANNOUNCEMENTS

        ENTER YOUR CHOICE                    .

        ------------------------------------------------
```

Figure 164: Menu 5-5-2 (Announcements on F1)

```
ANNOUNCEMENT MESSAGES ON VOCH OR CCS

        1 VOCH: SELECT MUSIC ON HOLD
        2 VOCH: RECORD RAM MESSAGE
        3 VOCH: LISTEN TO ROM MESSAGES
        4 CCS: VIEW ANNOUNCEMENTS
        5 CCS: ANNOUNCEMENT ALLOCATION
        6 CCS: OBSERVE COUNTERS
        7 CCS: COUNTERS RESET

        ENTER YOUR CHOICE                    .

        ------------------------------------------------
```

Figure 165: Menu 5-5-2 (Announcements on F2)

Each optional daughter card features a melody, a recordable RAM message of variable duration (16, 32, or 64 seconds), and 8 PROM messages. The VOCH card has 8 additional announcements.

The tone can be replaced by an announcement which comes from various origins: an optional card, an analogue subscriber card, or a CCS card (F2). The CCS card features synchronised messages: the user therefore hears the message from the beginning.

PBX Type	1st gen. card	2nd gen. card	Daughter card
F1: M6501L/R IP PBX	VOCT	BVF	FBVF
F2: M6504/M6540 IP PBX	VOCH	CCS	

Figure 166: Summary of voice cards installed in F1/F2 PBXs

- **XL/XS/XC**

```
ANNOUNCEMENT MESSAGES ON SVF-BVF

        1 SVF-BVF: VIEW ANNOUNCEMENTS
        2 SVF-BVF: ANNOUNCEMENT ALLOCATION
        3 SVF-BVF: OBSERVE COUNTERS
        4 SVF-BVF: RESET COUNTERS
        5 SVF-BVF: RECORD ANNOUNCEMENTS

        ENTER YOUR CHOICE                    .

        ------------------------------------------------
```

Figure 167: Menu 5-5-2 (Announcements on XL/XS/XC)

The recorded messages and announcements are integrated in the CPU card:

PBX Type	CPU card	Daughter card
XL (F6)	UCT-L	2 FMEVO
XS (F6)	UCT-S	1 FMEVO
XC (F6)	UCT-C	

Figure 168: Summary of voice cards installed in F6 PBXs

5.5.2.1 SELECT MUSIC ON HOLD (F2 – MENU 5-5-2-1)

On all PBXs you can select the music-on-hold.

```
VOCH: SELECT MUSIC ON HOLD

          PHYSICAL SLOT OF LIST. DEVICE          …..

          other music on hold                    YES

          ------------------------------------------------
```

Figure 169: Select music on hold

PHYSICAL SLOT OF LIST. DEVICE

Enter the cabinet number and the listening device card number (5 digits).

OTHER MUSIC ON HOLD

NO **YES**

Select YES to listen to the different melodies.

5.5.2.2 RECORD RAM MESSAGE (F1 AND F2)

- For M6501 L/R IP PBXs (F1): menu 5-1-2-5 (VOCT: record RAM message).
- For M6504/M6540 IP PBXs (F2): menu 5-2-2-5 (VOCH: record RAM message).

```
VOCH: RECORD RAM MESSAGE

          PHYSICAL SLOT OF LIST. DEVICE          …..

          RECORDING (16 SECONDS)                 NO

          ------------------------------------------------
```

Figure 170: Record RAM message

This menu is used to check the RAM on the voice card and is used to record a message several seconds long either on an analogue or digital set or on an external machine (resistance 600 Ω).

PBX family: voice card	Duration (secs)
F1: VOCT	64
F2: VOCH	16

Figure 171: Voice card recording duration

PHYSICAL SLOT OF LIST. DEVICE

Enter the cabinet number and the listening device card number (5 digits).

When you validate this field, the connection between the RAM and the listening device is established.

MIXING LEVEL (F1)

NO PARITY	WITH MUSIC PROM	WITH EXTERNAL ORIGIN

Select a mixing type.

MUSIC LEVEL (F1)

LOW	AVERAGE	HIGH

Select the volume.

RECORDING (16/32 SECONDS)

NO	YES

Select YES to record 16- or 32-seconds messages immediately. The recorded message is played back after recording.

Note: *When the RAM is recorded, you must define the tone to be allocated to this message. On system start-up this RAM has no tone allocated to it.*

5.5.2.3 LISTEN TO ROM MESSAGES (F1 AND F2)

- For M6501 L/R IP PBXs (F1): menu 5-2-2-5 (VOCT: Listen to ROM messages)
- For M6504/M6540 IP PBXs (F2): menu 5-3-2-5 (VOCH: Listen to ROM messages)

```
VOCH: LISTEN TO ROM MESSAGES

          PHYSICAL SLOT OF LIST. DEVICE …..

          other ANNOUNCEMENT                    NO

          ------------------------------------------------------
```

Figure 172: Listen to ROM messages

This menu is used to listen to the 8 messages on the card:

- VOCT on M6501L/R PBXs
- VOCH on M6504/M6540 PBXs

PHYSICAL SLOT OF LIST. DEVICE

Enter the cabinet number and card number of the listening device using 5 digits.

OTHER ANNOUNCEMENT

NO **YES**

Select YES to listen to the various messages. The first message you connect to is message number 1.

5.5.2.4 ANN MSG LOADING CONNECTION (F1 – MENU 5-5-2-3)

```
CC1: ANN MSG LOADING CONNECTION

          PHYSICAL SLOT OF SOURCE       ...

          PHYSICAL SLOT OF CC1 CARD     ...

          CONNECTION TYPE                     disconnect.
```

Figure 173: Announcement message loading connection

This menu is used to load announcement messages on the CC1 card. The CC1 card differs from the CCS card in that it does not have a facility for connecting a physical set. This MMC is therefore used to declare the set to download the announcement messages.

PHYSICAL SLOT OF SOURCE

Enter in this filed the physical slot of the source (5 digits).

PHYSICAL SLOT OF CC1 CARD

Enter the cabinet number and slot number of the card.

COMMAND TYPE

DISCONNECT. **CONNECTION**

Validate the connection.

5.5.2.5 VIEW ANNOUNCEMENTS

- For M6501 L/R IP PBXs (F1): menu 5-5-2-4 (CC1 – BVF: View announcements)
- For M6504/M6540 IP PBXs (F2): menu 5-5-2-4 (CCS: View announcements)
- For XL/XS/XC (F6): menu 5-5-2-1 (SVF-BVF: View announcements)

```
CC1-BVF: VIEW ANNOUNCEMENTS

 MSG LOC      NAME        DUR SY NS TO DUR
-----------------------------------------------------
 4       1 AVIVALDI.WAV    32       0    0   12
 4       2 AXF54.WAV       16       0    0   45
 4       3 AXF511.WAV       7       0    0   26
 4       4 AXF512.WAV       7       0    0   28
 4       5 AXF513.WAV       7       0    0   13
 4       6 AXF514.WAV       8       0    0   27
 4       7 AXF515.WAV       7       0    0   15
 4       8 AXF516.WAV       7       0    0   17
 4       9 AXF517.WAV       7       0    0   16
 4      10 AXF518.WAV       7       0    0   29
 4      11 AXF551.WAV      16       0    0   33
 4      12 AXF552.WAV      16       0    0   34
 4      13 AXF553.WAV      16       0    0   35
 4      14 AXF554.WAV      16       0    0   36
```

Figure 174: View announcements (F1)

```
SVF-BVF: VIEW ANNOUNCEMENTS

 MSG LOC      NAME        DUR SY NS TO DUR
-----------------------------------------------------
 0-06      1 AVIVALDI.WAV     31       0    0   12
 0-06      2 AXF511.WAV        8       0    0   45
 0-06      3 AXF512.WAV        8       0    0   26
 0-06      4 AXF513.WAV        8       0    0   28
 0-06      5 AXF514.WAV        8       0    0   13
 0-06      6 AXF515.WAV        8       0    0   27
 0-06      7 AXF516.WAV        8       0    0   15
 0-06      8 AXF517.WAV        8       0    0   17
 0-06      9 AXF518.WAV        8       0    0   16
 0-06     10 AXF521.WAV        8       0    0   29
 0-06     11 AXF522.WAV        8       0    0   33
 0-06     12 AXF53.WAV        32       0    0   34
 0-06     13 AXF54.WAV        16       0    0   35
 0-06     14 AXF551.WAV       16       0    0   36
```

Figure 175: View announcements (F6)

This menu is used to:

- display the messages in the voice cards (BVF, CCS, SVF-BVF)
- list the various uses of messages
- summarise the allocation of TSs to messages

The table displays the following details

SYNC (location): card slot in the cabinet

LOC (message): message number

NAME: message label

DUR: duration of the recording

SY: number of TSs reserved for synchronised messages

NS: number of TSs reserved for unsynchronised messages

TO: number of the first tone using the message

DUR: duration of message playback

Note: *Messages not defined, not used, or with no TS allocated are not displayed.*

5.5.2.6 ANNOUNCEMENT DISTRIBUTION

- For M6501 L/R IP PBXs (F1): menu 5-5-2-5 (CC1 – BVF: Announcement allocation)
- For M6504/M6540 IP PBXs (F2): menu 5-5-2-5 (CCS: Announcement allocation)
- For XL/XS/XC (F6): menu 5-5-2-2 (SVF-BVF: Announcement allocation)

```
ANNOUNCEMENT ALLOCATION

          BOARD PHYSICAL SLOT-MSG NUMBER      0061..
          NUMBER OF SYNCHRONIZED OUTPUTS      0.
          EXISTENCE OF NOT SYNC. OUTPUT       YES
          NUMBER OF COMMON OUTPUTS            20

          ------------------------------------------------------
```

Figure 176: Announcement distribution

BOARD PHYSICAL SLOT-MSG NUMBER

Enter the cabinet number, card number, and message number (6 characters).

This field is used to identify the message initialised in the cabinet and card.

Note: *In an XL/XS/XC, the slot number of the virtual MEVO card is 006. Enter 006 + the message number.*

NUMBER OF SYNCHRONIZED OUTPUTS

Enter the number of synchronised outputs in 2 digits.

Note: *This field only appears if the first field has been validated.*

EXISTENCE OF NOT SYNC. OUTPUT

NO **YES**

Select YES to confirm the existence of unsynchronised outputs.

Note: *This field only appears if the first field has been validated.*

NUMBER OF COMMON OUTPUTS

Read-only line. Enter 2 digits to indicate the number of remaining common TSs updated by the modification of the other fields.

Note: *The message "Full Table" only appears if there are no more common TSs.*

5.5.2.7 OBSERVE COUNTERS

- For M6501 L/R IP PBXs (F1): menu 5-5-2-6 (CC1 – BVF: Observe counters).
- For M6504/M6540 IP PBXs (F2): menu 5-5-2-6 (CCS: Observe counters).
- For XL/XS/XC (F6): menu 5-5-3-2 (SVF-BVF: Observe counters).

```
SVF-BVF: OBSERVE COUNTERS

          COMMON SYNC MSG TONE LOC FAILED NOT SYNC
          ----------------------------------------
           2 0-06- 15       0       0       0       0
          12 0-06- 23       0       0       0       0
          13 0-06-  4       0       0       0       0
          15 0-06-  6       0       0       0       0
          16 0-06-  8       0       0       0       0
          17 0-06-  7       0       0       0       0
          26 0-06-  2       0       0       0       0
          27 0-06-  5       0       0       0       0
          28 0-06-  3       0       0       0       0
          29 0-06-  9       0       0       0       0
          30 0-06- 14       0       0       0       0
          31 0-06- 16       0       0       0       0
          33 0-06- 10       0       0       0       0
          34 0-06- 11       0       0       0       0
          ----------------------------------------
```

Figure 177: Observe counters (F6)

This menu displays the number of connections per tone number, and is used to optimise TS distribution.

The table displays the following details

COMMON (tone): Tone number
SYNC (location): Card rack position
LOC (message): Message number
TONE (synchronisation): Number of connections on synchronised TS
LOC (common): : Number of connections on common TS
FAILED (not synchronised): : Number of connections on not synchronised TS
NOT SYNC (failed): Number of failed connections

Note: *Only tones using a CCS message are displayed, maximum 128 lines.*

5.5.2.8 RESET COUNTERS

- For M6501 L/R IP PBXs (F1): menu 5-5-2-7 (CC1 – BVF: Reset counters)
- M6504/M6540 IP PBX (F2): menu 5-5-2-7 (CCS: Reset counters)
- For XL/XS/XC (F6): menu 5-5-2-4 (SVF-BVF: Reset counters)

```
SVF-BVF: COUNTERS RESET
          COMMON SYNC MSG TONE LOC FAILED NOT SYNC
          ----------------------------------------
           2 0-06- 15      0      0      0      0
          12 0-06- 23      0      0      0      0
          13 0-06-  4      0      0      0      0
          15 0-06-  6      0      0      0      0
          16 0-06-  8      0      0      0      0
          17 0-06-  7      0      0      0      0
          26 0-06-  2      0      0      0      0
          27 0-06-  5      0      0      0      0
          28 0-06-  3      0      0      0      0
          29 0-06-  9      0      0      0      0
          30 0-06- 14      0      0      0      0
          31 0-06- 16      0      0      0      0
          33 0-06- 10      0      0      0      0
          34 0-06- 11      0      0      0      0
          ----------------------------------------
```

Figure 178: Reset counters (F6)

This menu displays the number of connections, and is used to reset the counters.

The table displays the following details

COMMON (tone):	Tone number
SYNC (location):	Card rack position
LOC (message):	Message number
TONE (synchronisation):	Number of connections on synchronised TS
LOC (common): :	Number of connections on common TS
FAILED (not synchronised): :	Number of connections on not synchronised TS
NOT SYNC (failed):	Number of failed connections

5.5.2.9 RECORD ANNOUNCEMENTS (F1 AND F6)

- For M6501 L/R IP PBXs (F1): menu 5-5-2-8 and 3-3-2 (BVF: Record announcements)
- For XL/XS/XC (F6): menu 5-5-2-5 and 3-3-1 (SVF-BVF: Record announcements)

```
RECORD ANNOUNCEMENTS

          PHYSICAL SLOT OF SOURCE                    …

          BOARD PHYSICAL EQUIPMENT                   …
          CATALOGUE NUM/GUIDE                        …
          - LABEL                                    ……..
          - DURATION IN SEC.                         …

          RECORDING PARAMETERS
          - CATALOGUE-MIXED GUIDE                    …
          - RECORDING LEVEL                          …
          - ATTENUATE MUSIC BY VOICE                 YES
          start recording                            YES
```

Figure 179: Record announcements

This menu is used to record customised announcements using a digital or analogue set, and to replace the pre-configured announcements on the card with new announcements.

Updating messages (also called announcements):

- requires the utility MCTOOLS Messages, on a CSS type card (F2)
- requires the utility MCTOOLS Messages, on a CC1 type card (F1)
- requires the utility M7420 Music Manager on a UTC card (F6).

For messages written in Flash PROM, a list showing the location and length of each message is displayed. Synchronised messages are broadcast from the beginning. This menu can therefore be used to listen to the different message on the card without having to temporarily define a definable tone.

Note: *Accessing this menu puts the set out of service: it is therefore not recommended to access this menu unnecessarily.*

PHYSICAL SLOT OF SOURCE

Enter the equipment number of the set from which the announcement will be recorded (four digits for F1 and five digits for XL/XS/XC).

BOARD PHYSICAL EQUIPMENT

Enter the equipment number of the card containing the pre-configured announcements (4 digits for F1 and 006 for XL/XS/XC).

Note: *For XL/XS/XC, the voice mail system's virtual card on the UCT board contains pre-configured annoncements. Its equipment number is 006.*

CATALOGUE NUM/GUIDE

Enter the catalogue number (if different from 0) and the announcement number (value between 1 and 255).

When the bothway connection is made with the first time interval allocated to the message function, you can listen to the selected message.

Note: *To view the number of an announcement, display the announcement list.*

LABEL

When the announcement number is validated, enter the message name.

DURATION IN SEC.

When the announcement number is validated, enter the message duration.

RECORDING PARAMETERS

CATALOGUE-MIXED GUIDE

Enter the catalogue number (if different from 0) and the number of the announcement to be mixed (value between 1 and 255).

This field is only filled in if mixing is requested. Therefore, the announcement which will be combined with another announcement must logically be a background melody on which another message is to be superimposed.

RECORDING LEVEL

Enter the recording level (value between 1 and 255).

ATTENUATE MUSIC BY VOICE

NO **YES**

Select YES to lower the music level when someone speaks: this parameter is also known as fading.

START RECORDING

NO **YES**

Select YES to start recording the message. During the operation, the message "Work In Progress" is displayed. When the card detects the end of the operation, the recording stops and the message is played back.

After playback, you can make further recordings with different recording and sound levels.

5.5.3 DEFINITION OF SPOKEN LANGUAGES (MENU 5-5-3)

☞ For the Call Manager (F5): Menu 5-3-1 (Definition of spoken languages).

```
DEFINITION OF SPOKEN LANGUAGES

         LANGUAGE NAMED                        FRENCH
         WITH REGARD TO EXTENSION CORRESPONDS TO   0.     0.
         LANGUAGE NAMED                        ENGLISH.
         WITH REGARD TO EXTENSION CORRESPONDS TO   0.        1.
         LANGUAGE NAMED                        DEUTCH..
         WITH REGARD TO EXTENSION CORRESPONDS TO   0.        2.
         LANGUAGE NAMED                        ........

         LANGUAGE NAMED                        ........

         LANGUAGE NAMED                        ........

         LANGUAGE NAMED                        ........

         LANGUAGE NAMED                        ........
```

Figure 180: Definition of spoken languages

The MMC is used to associate a code number with a language name.

The languages are used for messages from a broadcasting device connected to analogue sets. These messages are allocated to definable tones according to their use.

LANGUAGE NAMED

Enter the language name on this line (maximum 8 characters).

WITH REGARDS TO EXT CORRESPONDS TO

Enter a language code on 2 digits: for example, the first language name defined takes code 0, the second takes code 1, and so on.

Allocation of the created language is carried out for each user in menu 1-1-1 (Extension Characteristics) in the field "Spoken Language" which appears after definition has been complete in this menu.

5.5.4 ALLOCATION OF TONES TO LANGUAGES (MENU 5-5-4)

☞ For the Call Manager (F5): Menu 5-3-2 (Allocation of tones to languages).

```
ALLOCATION OF TONES TO LANGUAGES

FOR LANGUAGE                                . . . . . .
```

Figure 181: Allocation of tones to languages

This menu is used to replace the standard tone of a function (0 to 63 and 112 to 127) with a definable tone (64 to 111), for a given language: This assumes that customised announcements can be connected to analogue set interfaces.

FOR LANGUAGE

----------	FRENCH	ENGLISH	DEUTSCH

Select a language (defined in menu 5.5.3).

The following window opens.

```
ALLOCATION OF TONES TO LANGUAGES

         FOR LANGUAGE                          ENGLISH
         AND TONE                   RESTRICTION FAILED
         IDENTIFIED BY THE NUMBER                25.
         IS REPLACED BY DEFINABLE TONE

              NUMBER (64 to 111)                 . . .

          ----------------------------------------------
```

Figure 182: Allocation of tones to languages (continued)

AND TONE

INTERNAL ON HOLD TONE	EXT. INTERNAL O.S.	EXTERNAL O.S.	RESTRICTION FAIL
PROGRAM WAKE-UP	CALL ACCEPTED TONE	CONGESTION TONE	UNKNOWN NUMBER TONE
ENTER PASSWORD	WAKE-UP RECALL	MSG IN BOX	ZERO CREDIT
MINIMUM CREDIT	CONSULT. CALL INTRUS.	SINGLE CALL INTRUSION	CONSULT. CALL NO INTR.
SINGLE CALL NO INTR.	D.N.D. ACTIV	AUTO CALLBACK ACTIV	PREDEF. CBACK ACTIV

Select the tone to be modified.

IDENTIFIED BY THE NUMBER

A number linked to the tone previously selected is displayed. To select a tone not in the above list and for definable tones (dual criteria company-dept/language), enter the tone number in three digits

IS REPLACED BY DEFINABLE TONE (NUMBER 64 TO 111)

Enter the number of the definable tome (3 digits) which will replace the tone selected.

5.5.5 COMPANY/DEPARTMENT SPECIFIC TONES (MENU 5-5-4)

☞ For the Call Manager (F5): Menu 5-3-3 (Company/department specific tones).

This MMC enables you to replace network tones with definable tones (single-company or multi-company configuration).

5.5.5.1 SINGLE-COMPANY CONFIGURATION

```
SPECIFIC TONE

          TONE                                  EXTERNAL DIAL TONE
          IS REPLACED BY DEFINABLE TONE
          NUMBER (64 to 111)                              ...
```

Figure 183: Specific tone (single-company)

TONE

EXTERNAL DIAL TONE	INTERNAL ON HOLD TONE	NETWORK HOLD	BF ANS: EXT FREE
BF ANS: FWD OPCO FREE	AF ANS: EXT FREE	AF ANS: opco FREE	BF ANS: ext busy
AP REP AB OCC	BF DAY RING	BF NIGHT RING	MEET-ME PAGING
BF ANS: DAY DISSUA	BF ANS: NIGHT DISSUA	AF ANS: DAY DISSUA	AF ANS: NIGHT DISSUA

Select the network tone to be allocated to the definable tone.

IS REPLACED BY DEFINABLE TONE (NUMBER 64 TO 111)

Enter the number of the definable tome (3 digits) which will replace the tone selected.

5.5.5.2 MULTI-COMPANY CONFIGURATION

This menu is used to link a network tone with a definable tone for a company/department pair.

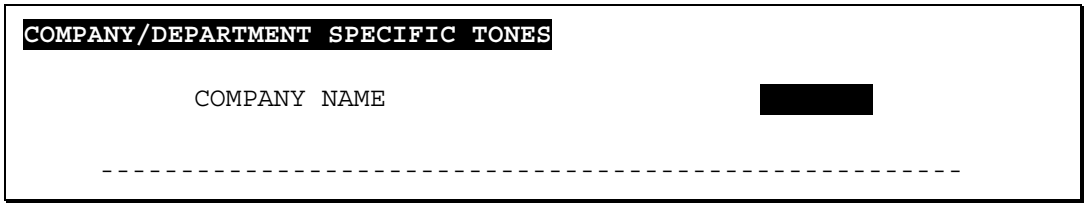


Figure 184: Company/department specific tones

COMPANY NAME

Select a company. The following screen is displayed.

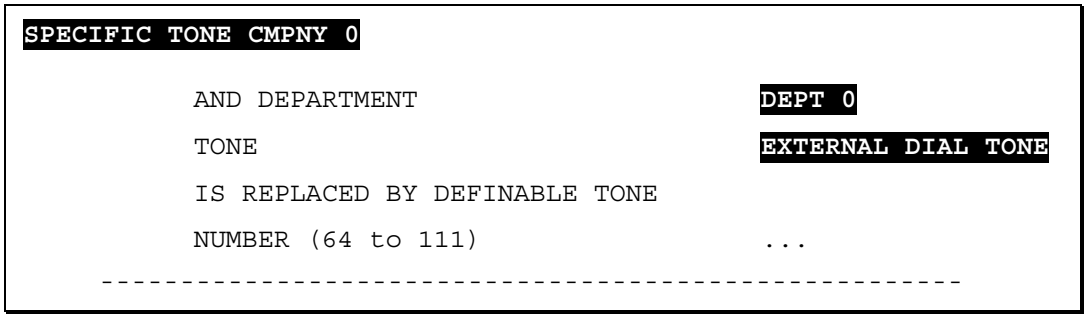


Figure 185: Company/department specific tones (cont.)

AND DEPARTMENT

Select a department.

TONE

EXTERNAL DIAL TONE	INTERNAL ON HOLD TONE	NETWORK HOLD	BF ANS: EXT FREE
BF ANS: FWD OPCO FREE	AF ANS: EXT FREE	AF ANS: opco FREE	BF ANS: ext busy
AP REP AB OCC	BF DAY RING	BF NIGHT RING	MEET-ME PAGING
BF ANS: DAY DISSUA	BF ANS: NIGHT DISSUA	AF ANS: DAY DISSUA	AF ANS: NIGHT DISSUA

Select the network tone to be allocated to the definable tone.

IS REPLACED BY DEFINABLE TONE (NUMBER 64 TO 111)

Enter the number of the definable tome (3 digits) which will replace the tone selected.

5.5.6 DEFINITION OF DIRECT ACCESS MESSAGES (MENU 5-5-6)

☞ For the Call Manager (F5): Menu 5-3-4 (Definition of direct access messages).

```
DEFINITION OF DIRECT ACCESS MESSAGES
               FOR MESSAGE 0 DEFINABLE TONE NO.     68.
                             LSTNING TIME (sec)     8..
               FOR MESSAGE 1 DEFINABLE TONE NO.     111
                             LSTNING TIME (sec)     8..
               FOR MESSAGE 2 DEFINABLE TONE NO.     ...

               FOR MESSAGE 3 DEFINABLE TONE NO.     ...

               FOR MESSAGE 4 DEFINABLE TONE NO.     ...

               FOR MESSAGE 5 DEFINABLE TONE NO.     ...

               FOR MESSAGE 6 DEFINABLE TONE NO.     ...

               FOR MESSAGE 7 DEFINABLE TONE NO.     ...

               ---------------------------------------

               Delete Origin Session Hardcopy Type
               Begin More End Clear Guide
               <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 186: Definition of direct access messages

This menu is used to set up correspondence between a direct message and a definable tone. Listen to the message by dialling a prefix (see volume 1, Feature class).

FOR MESSAGE N DEFINABLE TONE NO.

Enter the definable tone number.

> **Note:** *Several messages can use the same tone.*
>
> *A direct access message can reach an announcement or a tone directly (for example: an internal speaking clock).*

LISTENING TIME (SEC)

Length of message (in seconds).

5.5.7 DISPLAY DEFINABLE TONES (MENU 5-5-7)

☞ For the Call Manager (F5): Menu 5-3-5 (Display definable tones).

5.5.7.1 SINGLE COMPANY OPERATION

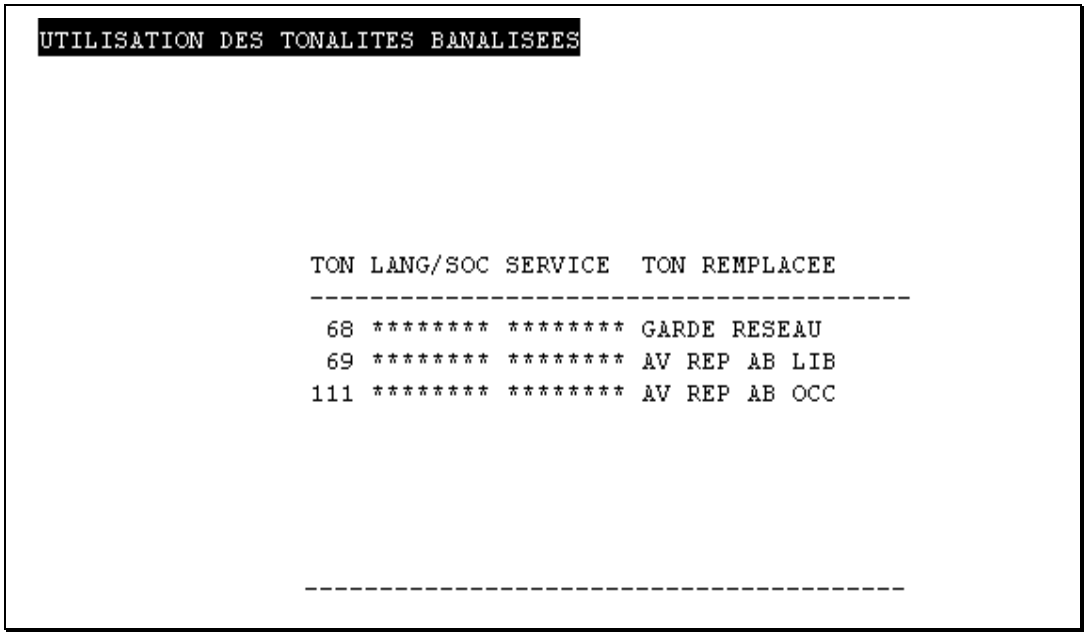


Figure 187: Display of definable tones in single-company configuration

This screen is used to display the definable tones of a single company.

Note: *In single-company configuration, the company name displayed is not significant.*

Example: Display of the definable tones used by the company-department:

- tone 068 is reserved for NETWORK HOLD
- tone 069 is reserved for BF ANS: EXT FREE (pre-response)
- tone 111 is reserved for BF ANS: EXT BUSY (pre-response)

5.5.7.2 MULTICOMPANY OPERATION

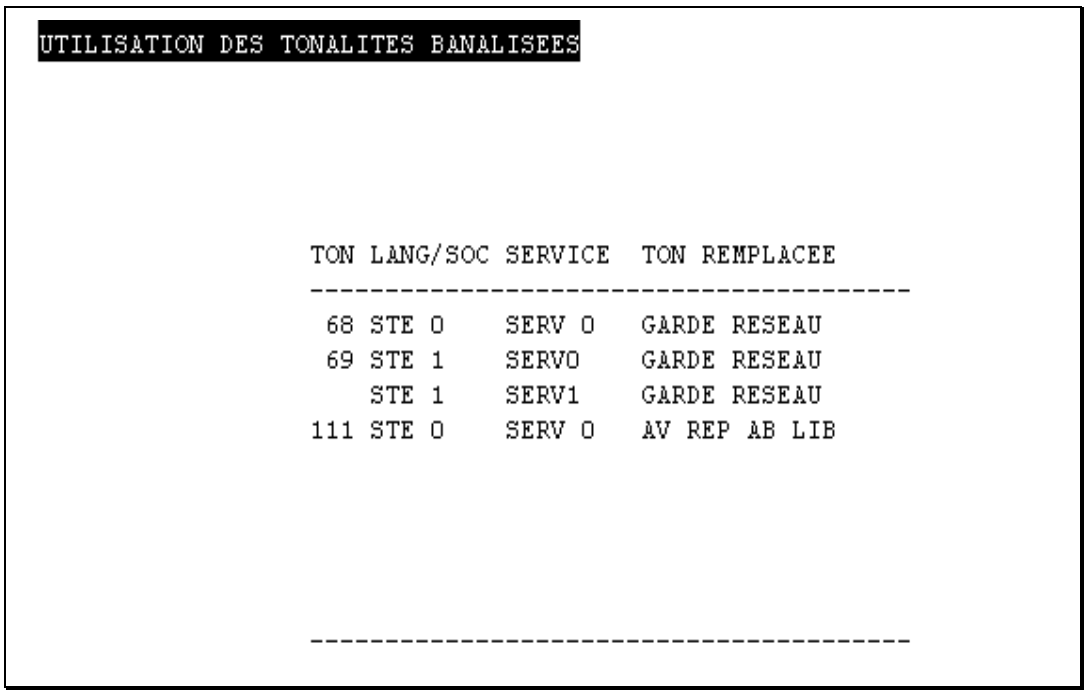


Figure 188: Display of definable tones in multi-company configuration

This screen is used to display the definable tones for the departments of more than one company.

Example: Display of the definable tones used by COMPANY 0/1, DEPARTMENT 0/1.

- tone 068 is reserved for COMPANY 0 and DEPARTMENT 0
- tone 069 is reserved for COMPANY 1 and DEPARTMENTS 0 and 1
- tone 111 is reserved for COMPANY 0 and DEPARTMENT 0

5.5.8 EXTENNAL MUSIQUE LEVEL ADJUST. (MENU 5-5-8) (F1 AND F6)

☞ For the Call Manager (F5): this menu is not available.

Music-on-hold is specific to the OCT4 (F1) and UCT (F6) cards (external and internal music) and is adjusted by an electronic potentiometer using this MMC.

```
EXTENNAL MUSIQUE LEVEL ADJUST.

          PHYSICAL SLOT OF LIST. DEVICE       .....

          SOUND LEVEL                         MIN.

          ------------------------------------------------
```

Figure 189: Adjust external music level (F1)

```
EXTENNAL MUSIQUE LEVEL ADJUST.

          PHYSICAL SLOT OF LIST. DEVICE       .....

          ATTENUATE LEVEL (Db)                16

          SOUND LEVEL                         MIN.

          ------------------------------------------------
```

Figure 190: Adjust external music level (F6)

PHYSICAL SLOT OF LIST. DEVICE

Enter the set's equipment number (cabinet no. + card slot no. + card equipment no.) from which the music is played (5 digits).

ATTENUATE LEVEL (DB)

Line read only, appears only on F6. Gives the attenuation level at a given moment.

SOUND LEVEL

MIN. **MAX.** **MORE** **LESS**

This choice is used to increase the volume of the music. Selecting MORE or LESS increases or decreases the volume by 1 Db. Selecting MIN. and MAX. sets the minimum and maximum volume respectively.

5.6 SIGNALLING MANAGEMENT (MENU 5-6)

☞ For the Call Manager (F5): this menu is not available.

```
SIGNALlING MANAGEMENT

        1 SIGNALING ACTIVATION
        2 NON ISDN SIGNALING PARAMETERS
        3 ISDN SIGNALING PARAMETERS
        4 INITIALIZE A SIGNALING TYPE
        5 RECORDING PARAMETERS
        6 IP SIGNALING PARAMETERS

        ENTER YOUR CHOICE                    .

        ---------------------------------------
```

Figure 191: Menu 5-6 (Signalling management)

5.6.1 SIGNALLING ACTIVATION (MENU 5.6.1)

☞ For the Call Manager (F5): this menu is not available.

This MMC is used to activate only the signalling used for each type of trunk card present in the system.

```
SIGNALLING ACTIVATION


       FOR THE PHYSICAL TYPE              DIGITAL TRE
```

Figure 192: Signalling activation

FOR THE PHYSICAL TYPE (FIX FORMAT BELOW)

DIGITAL TRK	ANALOG TRK	TIE LINE	ISDN:T0	ISDN:T2	VOICE IP

Select a trunk type.

Note: *Digital TRK, TIE-LINE and ISDN T2 are available on M6501L/R / M6540 IP PBXs and XL / XS /XC.*

5.6.1.1 SIGNALLING FOR DIGITAL TRK

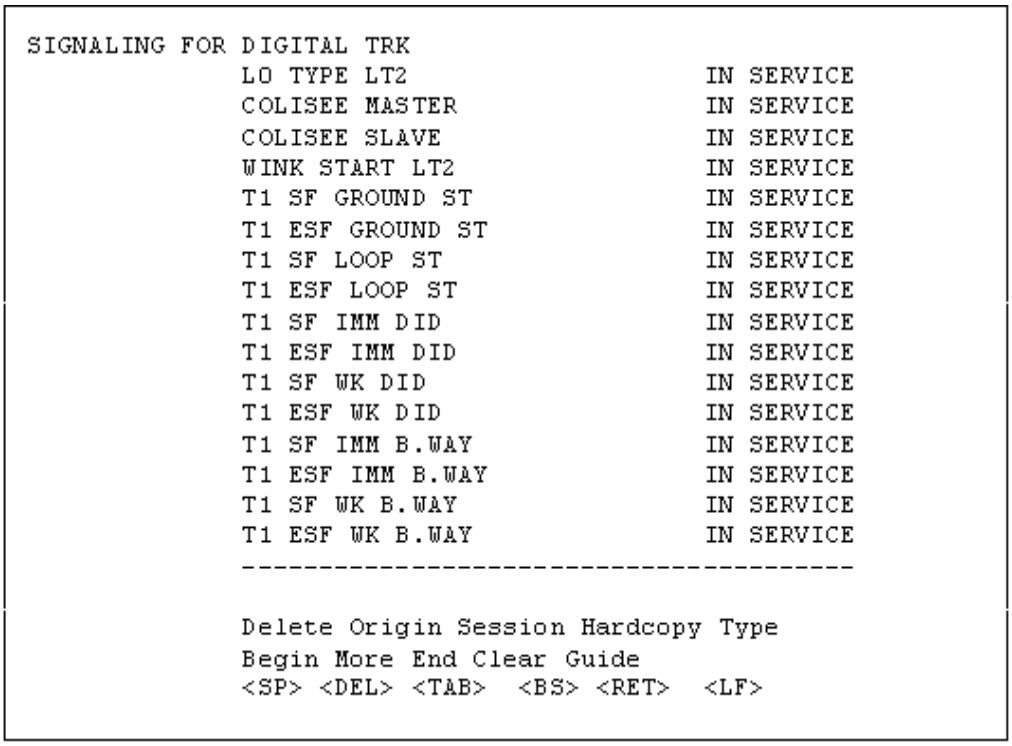


Figure 193: Signalling for digital TRK

Set each signalling type **In service** or **Out of service**.

5.6.1.2 SIGNALLING FOR ANALOGUE TRK

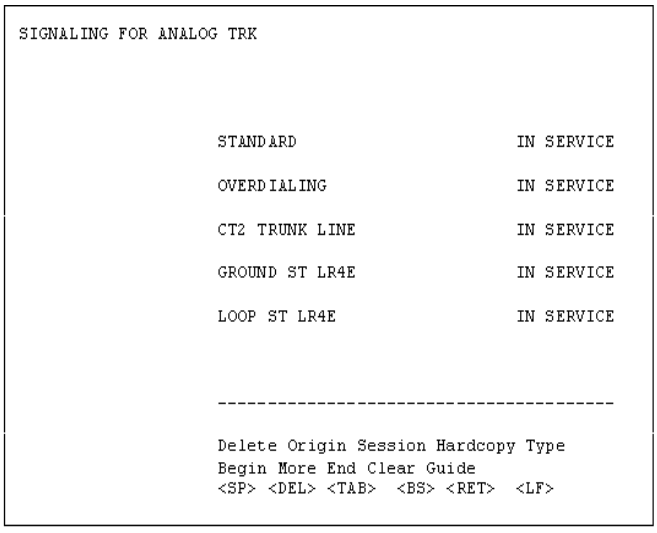


Figure 194: Signalling for analogue TRK

Set each signalling type **In service** or **Out of service**.

5.6.1.3 SIGNALLING FOR TIE-LINE

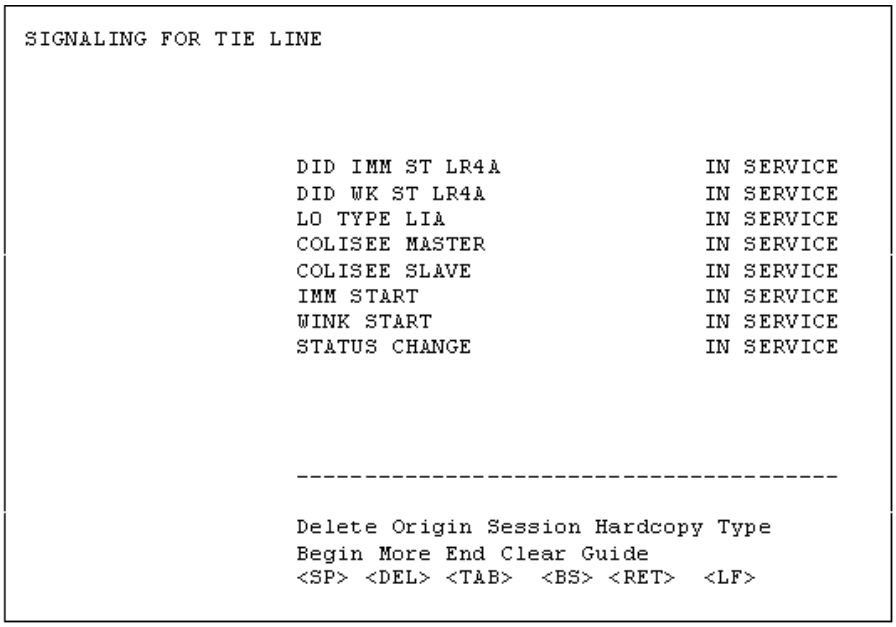


Figure 195: Signalling for tie-line

Set each signalling type **In service** or **Out of service**.

5.6.1.4 SIGNALLING FOR ISDN:T0

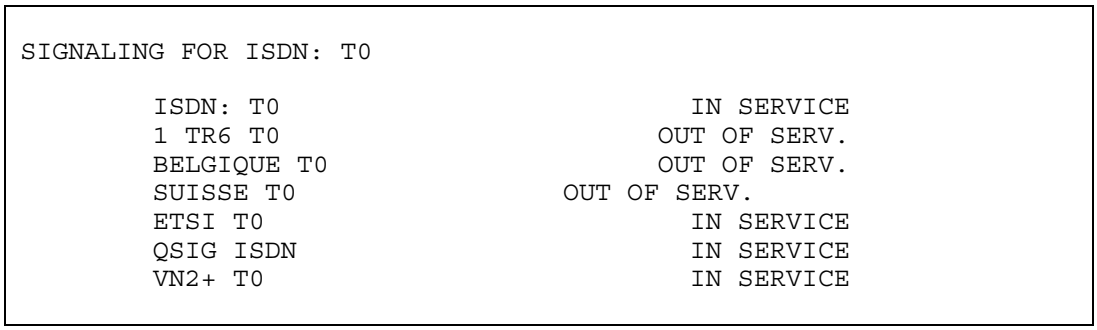


Figure 196: Signalling for ISDN:T0

Set each signalling type **In service** or **Out of service**.

5.6.1.5 SIGNALLING FOR ISDN:T2

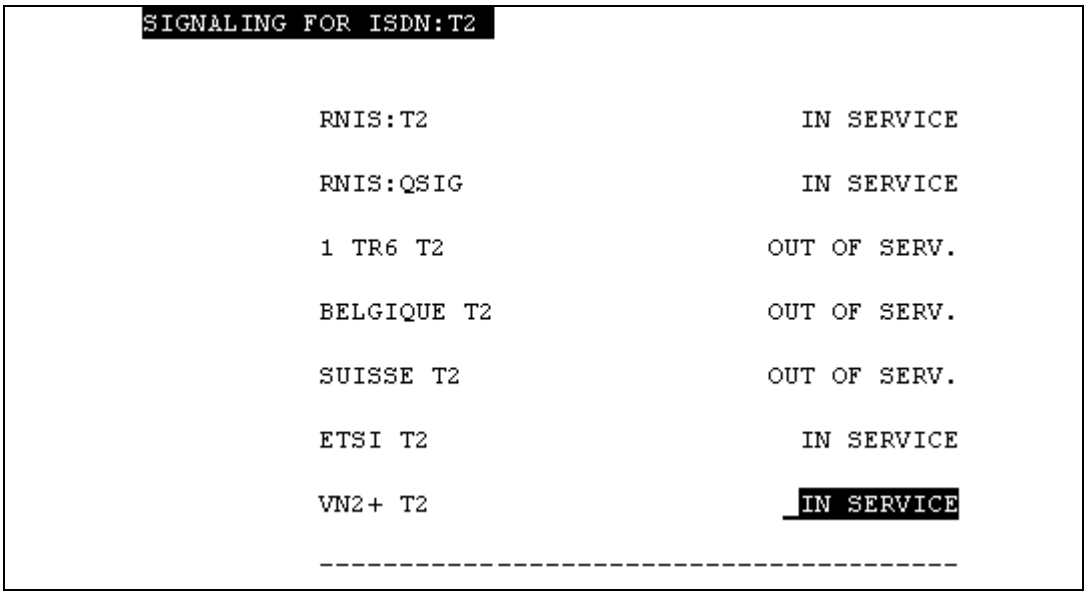


Figure 197: Signalling for ISDN:T2

Set each signalling type **In service** or **Out of service**.

5.6.1.6 SIGNALLING FOR VOICE IP

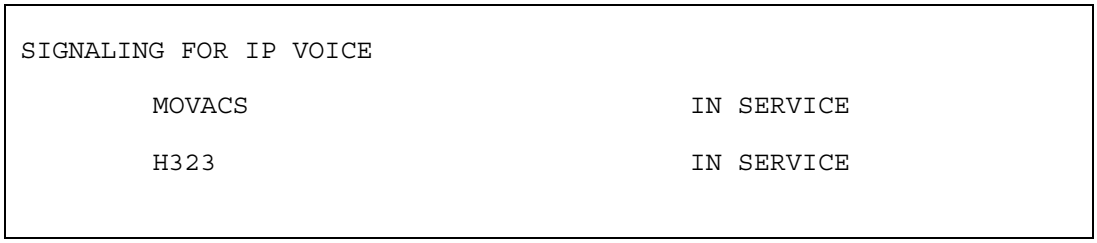


Figure 198: Signalling for voice IP

Set each signalling type **In service** or **Out of service**.

5.6.2 NON ISDN SIGNALLING PARAMTERS (MENU 5-6-2)

☞ For the Call Manager (F5): this menu is not available.

All signalling for connection to the public network, or recommended by the public carrier for connection of PBXs, is specified in standards.

However, since carriers may differ from country to country even in the smallest amount, and even if the signalling set-up remains the same, the signalling values require modification (for example, Export).

IMPORTANT: *Only modify the default values if you are entitled to do so.*

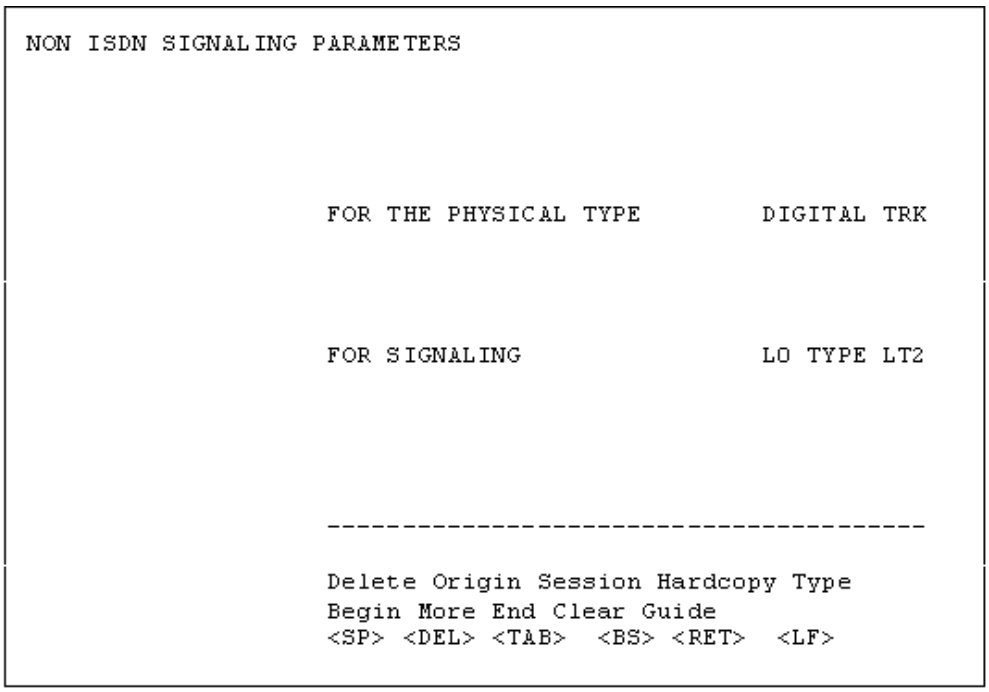


Figure 199: Non ISDN signalling parameters

FOR THE PHYSICAL TYPE (FIX FORMAT BELOW)

DIGITAL TRK **ANALOG TRK** **TIE LINE**

Select a trunk type.

> **Note:** *DIGITAL TRK is available on M6501L/R / M6504 PBXs and XL/XS using an LT2 card.*

When you validate the screen Non ISDN signalling parameters, the following screen is displayed:

```
DIGITAL TRK  LO TYPE LT2 PARAMETERS
                    ms: UNIT MILLISECOND, sec: UNIT SECOND
                    ---------------------------------------
                    SEIZURE COLLISION ms                10..
                    IF EXTERNAL TONE EXPECTED:
                    - WAIT DELAY sec                     2.
                    - CONFIRM. PRESENCE DURATION ms     100.
                    - TRANSMIT 1st DIGIT AFTER ms      1100
                    IF NOT: TRANSMIT 1ST DIGIT AFTER sec  2.

                    INTERMEDIATE TONE DELAY sec          21

                    IN DTMF: TRANSMIT DIGIT DURATION ms 70..
                    IN DTMF: TRANSMIT SILENCE DUR. ms   70..
                    IN DEC.: TRANSMIT NEXT DIGIT ms     900.
                    IN AUTO. DIALING: SHORT PAUSE sec     0.
                    IN AUTO DIALING: LONG PAUSE sec       0.
                    ---------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 200: Non ISDN signalling parameters (continued)

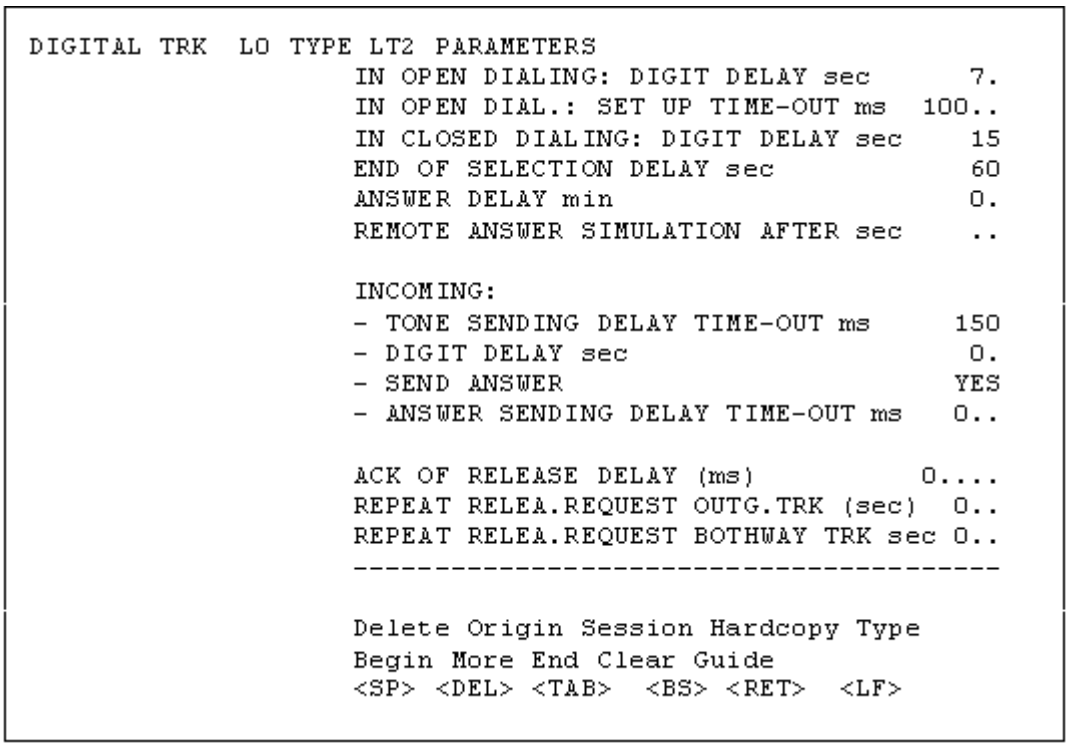


Figure 201: Non ISDN signalling parameters (continued)

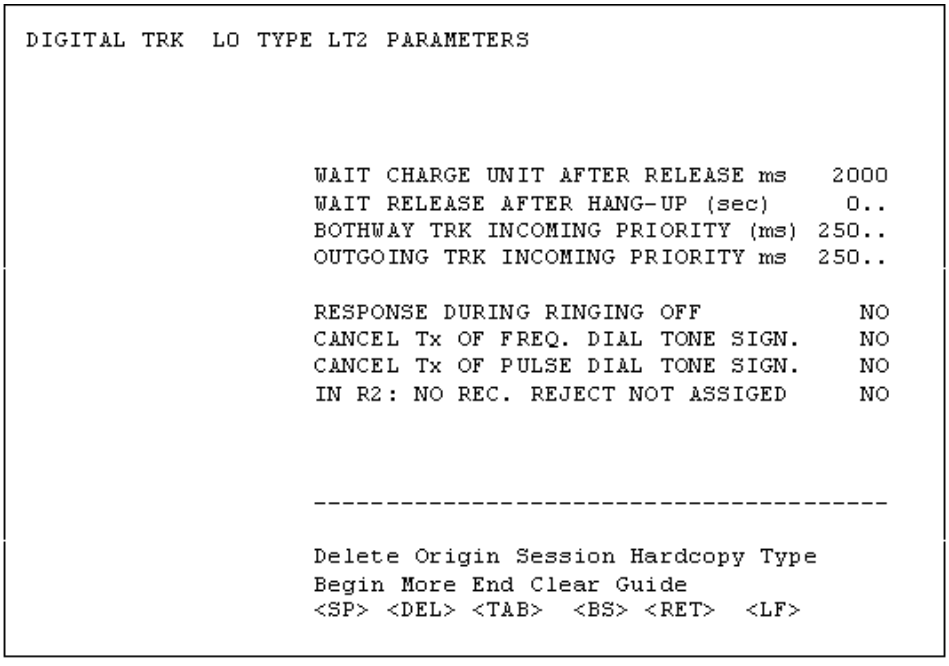


Figure 202: Non ISDN signalling parameters (end)

These screens are used to define most timeouts linked to non ISDN signalling. For each timeout, you are reminded of the unit of measurement: seconds (sec), milliseconds (ms), or minutes (min).

SEIZURE COLLISION	**Enter a duration (in ms).**
IF EXTERNAL TONE EXPECTED	
- WAIT DELAY	**Enter a duration (in sec).**
- CONFIRM. PRESENCE DURATION	**Enter a duration (in ms).**
- TRANSMIT 1ST DIGIT AFTER	**Enter a duration (in ms).**
ELSE – TRANSMIT 1ST DIGIT AFTER	**Enter a duration (in sec).**
INTERMEDIATE TONE DELAY	**Enter a duration (in sec).**
IN DTMF: TRANSMIT DIGIT DURATION	**Enter a duration (in ms).**
IN DTMF: TRANSMIT SILENCE DURATION	**Enter a duration (in ms).**
IN DEC.: TRANSMIT NEXT DIGIT	**Enter a duration (in ms).**
IN AUTO. DIALLING: SHORT PAUSE	**Enter a duration (in sec).**
IN AUTO. DIALLING: LONG PAUSE	**Enter a duration (in sec).**
IN OPEN DIALLING: DIGIT DELAY	**Enter a duration (in sec).**
SET UP TIME-OUT	**Enter a duration (in ms).**
IN CLOSED DIALLING: DIGIT DELAY	**Enter a duration (in sec).**
END OF SELECTION DELAY	**Enter a duration (in sec).**
ANSWER DELAY	**Enter a duration (in min).**
REMOTE ANSWER SIMULATION AFTER	**Enter a duration (in sec).**
INCOMING	
- TONE SENDING DELAY TIME-OUT	**Enter a duration (in ms).**
- DIGIT DELAY	**Enter a duration (in sec).**
- ANSWER SENDING DELAY TIME-OUT	**Enter a duration (in ms).**
ACK OF RELEASE DELAY	**Enter a duration (in ms).**
REPEAT RELEA. REQUEST OUTG. TRK	**Enter a duration (in sec).**
REPEAT RELEA. REQUEST BOTHWAY TRK	**Enter a duration (in sec).**
WAIT CHARGE UNIT AFTER RELEASE	**Enter a duration (in ms).**
WAIT RELEASE AFTER HANG-UP	**Enter a duration (in sec).**
BOTHWAY INCOMING PRIORITY	**Enter a duration (in ms).**
OUTGOING TRK INCOMING PRIORITY	**Enter a duration (in ms).**
RESPONSE DURING RINGING OFF	**NO YES**
CANCEL TX OF FREQ. DIAL TONE SIGN.	**NO YES**
CANCEL TX OF PULSE DIAL TONE SIGN.	**NO YES**
IN R2: NO REC. REJECT NOT ASSIGNED	**NO YES**

5.6.3 ISDN SIGNALLING PARAMETERS (MENU 5.6.3)

☞ For the Call Manager (F5): this menu is not available.

All signalling for connection to the public network, or recommended by the public carrier for connection of PBXs, is specified in standards.

However, private ISDN signalling requires modification of the signalling characteristics for some special applications.

IMPORTANT: *Only modify the default values if you are entitled to do so.*

```
ISDN SIGNALING PARAMETERS




                    FOR THE PHYSICAL TYPE            ISDN:TO


                    FOR SIGNALING                    ETSI BRI




                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 203: ISDN signalling parameters

FOR THE PHYSICAL TYPE (FIX FORMAT BELOW)

ISDN:T0 **ISDN:T2**

Select a trunk type.

```
ISDN:TO      ETSI BRI PARAMETERS
                    LEVEL 2 BREAK
                    - WITH HOLD CALL                    YES
                    - ALARM REPORTED AFTER (sec)         51
                    - PBX RECOVERY                      YES
                    - AFTER ALARM REPORTING (sec)        10

                    NUMBER OF SUCCESSIVE TRANSITS        0.

                    CHARGING DISPLAY MODE                NO
                    - INFORMATION TYPE                 UNIT
                    - IDENTIFIER LENGTH                  0.
                    - START IDENTIFIER                   ..
                    - LOCATED                       FORWRD

                    USER TO USER INFORMATION (SUU)      YES
                    TRT MESSAGE STATUS                   NO
                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 204: ISDN signalling parameters (continued)

```
ISDN:TO      ETSI BRI PARAMETERS
                    RETURN TO CONS. INHIBITED              NO
                    TRANSMIT NOS. BY BLOCK                 NO

                    RING. TIME-OUT T301 (sec)             100
                    RECEIVE INTERDIGITAL TIME-OUT T302     15
                    TIME-OUT T303 AWAIT. RESP.              4.
                    TRANSMIT INTERDIGITAL TIME-OUT T304    30
                    TIME-OUT T305 AWAIT. RELEASE           30
                    TIME-OUT T308 AWAIT. END OF REL.        4.
                    TIME-OUT T309 RE-EST. LEVEL 2          60.
                    TIME-OUT T310 EST.                     40.
                    TIME-OUT T313 CONNECTION ACCEPT.        4.
                    TIME-OUT T316 REINIT. CCEPT.           120
                    TIME-OUT T322 WAIT STATUS              5..


                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 205: ISDN signalling parameters (continued)

```
ISDN:TO      ETSI BRI PARAMETERS


                    REMOTE TONE MONITORING

                    - FLAG PROGRESSION 1                   NO

                    - FLAG PROGRESSION 2                   NO

                    - FLAG PROGRESSION 3                   NO

                    - FLAG PROGRESSION 4                   NO

                    - FLAG PROGRESSION 5                   NO

                    - FLAG PROGRESSION 8                   NO

                    ----------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 206: ISDN signalling parameters (continued)

LEVEL 2 BREAK

- **WITH HOLD CALL** — **NO** **YES.**
- **ALARM REPORTED AFTER** — **Enter a duration (in sec).**
- **PBX RECOVERY** — **NO** **YES.**
- **AFTER ALARM MONITORING** — **Enter a duration (in sec).**

NUMBER OF SUCCESSIVE TRANSITS — 2 digits

CHARGING DISPLAY MODE — **NO** **YES.**

- **INFORMATION TYPE** — **4 CHARACTERS**
- **IDENTIFIER LENGTH** — 2 digits
- **START IDENTIFIER** — **2 CHARACTERS**
- **LOCATED** — 4 CHARACTERS

USER TO USER INFORMATION (SUU) — **NO** **YES.**

TRT MESSAGE STATUS — **NO** **YES.**

TIME-OUT T301 TO T322 — **Enter a duration (in sec).**

Note: *The default values vary depending on the signalling, and are recorded in a table (they cannot be accessed).*

	T301	T302	T303	T304	T305	T308	T309	T310	T313	T316	T322
ISDN	100	20	10	60	4	4	60	60	4	120	5
QSIG	180	15	5	20	4	4	90	90	4	120	5
ETSI	100	15	4	30	30	4	60	40	4	120	5
1TR6	100	20	4	60	30	4	60	80	4	120	5

REMOTE TONE MONITORING

- **FLAG PROGRESSION 1 TO 8** — **NO** **YES**

FOR THE SIGNALLING

ISDN: T0 **VN2+_T0** **VN2+_T2**

Select the line signalling.

5.6.4 INITIALIZE A SIGNALLING TYPE (MENU 5-6-4)

☞ For the Call Manager (F5): this menu is not available.

To define new signalling derived from an existing signalling without modifying it, you can copy the existing signalling and make any modifications required on the copy.

This MMC is used to make a copy of the existing signalling and give a name to this new signalling.

When you have made the necessary modifications, you can initialise the new signalling and allocate it to the trunk group concerned.

IMPORTANT: *Only modify this MMC if you are entitled to do so.*

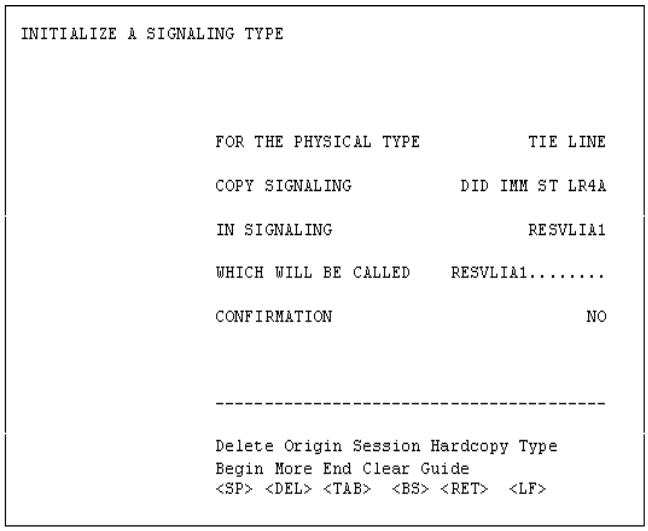


Figure 207: Initialise a signalling type

FOR THE PHYSICAL TYPE (FIX FORMAT BELOW)

DIGITAL TRK	ANALOG TRK	TIE LINE	ISDN:T0 ISDN:T2

Select a trunk type.

COPY SIGNALLING

Select the outgoing signalling.

IN SIGNALLING

Select the incoming signalling.

WHICH WILL BE CALLED

Give a name to the new signalling.

5.6.5 RECORDING PARAMETERS (MENU 5-6-5)

☞ For the Call Manager (F5): this menu is not available.

```
R2 STANDARD RECORDER PARAMETERS
                    INCOOMING, CODE TRANS. BY PBX Bx
                    - FREE EXT.                          6
                    - BUSY EXT.                          3
                    - NUMBER NOT ASSIGNED                5
                    - CONGESTION                         4

                    - REMOTE IDENTIFICATION             NO


                    OUTGOING, CODE REC. BY PBX Bx
                    0 INTERPRETED AS                IGNORE
                    1 INTERPRETED AS                IGNORE
                    2 INTERPRETED AS                IGNORE
                    3 INTERPRETED AS          BUSY EXTENS.
                    4 INTERPRETED AS       CONGESTION TONE
                    5 INTERPRETED AS       NO NOT ASSIGNED
                    ---------------------------------------

                    Delete Origin Session Hardcopy Type
                    Begin More End Clear Guide
                    <SP> <DEL> <TAB>  <BS> <RET>  <LF>
```

Figure 208: R2 Standard recorder parameters

This menu is used to configure the parameters of a recorder.

Note: *The only type of recorder that can currently be configured is the R2 type.*

INCOMING, CODE TRANS; BY PBX BX

FREE EXTENSION

Select a number: from 0 to 9

NUMBER NOT ASSIGNED

Select a number: from 0 to 9

CONGESTION TONE

Select a number: from 0 to 9

REMOTE IDENTIFICATION

NO | **AT END** | **DURING**

Select an identification.

RECEIVED DIGITS NUMBER

Select a number: from 1 to 20

> **Note:** *This field is only displayed if the previous field is set as DURING: this specifies when the identification request will be made. The recorder knows that this request is not made after the number dialled is received.*

OUTGOING, CODE REC. BY PBX BX

N INTERPRETED AS

IGNORE **EXTENSION** **BUSY EXTENS.**

NO NOT ASSIGNED **CONGESTION TONE**

Select how you want the n codes to be interpreted.

> **Note:** *These fields indicate the PBX how to interpret the codes received during an outgoing call.*

5.6.6 IP SIGNALING PARAMETERS (MENU 5-6-6)

☞ For the Call Manager (F5): this menu is not available.

```
IP SIGNALING PARAMETERS

          BYTES TOS VOICE (hexa)                B8
          BYTES TOS SIGNALING (hexa)      A0

          TIME TO LIVE OF THE IP DATAGRAM       1..

          ARP INPUTS NUMBER                     50.
          TIME TO LIVE OF THE ARP INPUT sec   600..

          TIME-OUT NETWORK ALARM START sec    120..
          TIME-OUT NETWORK ALARM END sec       30..


          ---------------------------------------
```

Figure 209: IP signalling parameters

This menu is used to modify the parameters used by the PTx cards linked to IP signalling.

BYTES TOS VOICE (HEXA)

> **Note:** *TOS (Type Of Service) is intrinsic data within an IP message used to determine the priority of the IP packet containing this value, compared to other IP messages passing through the TCP/IP network. The PBX manages two types of IP messages (a marking message for voice, and a signalling message). The PBX assigns a value for the TOS that is specific to the transmitted IP message. The two lines below are used to modify the TOS value used for voice and signalling.*

Default value in hexadecimal of the TOS bit (IP segment header) used for RTP and RTCP packets. This value can be between 0x20 and 0xFF and is initialised at 0xB8 (low order byte of parameter 0 in the table).

BYTES TOS SIGNALING (HEXA)

Default value in hexadecimal of the TOS bit of an IP datagram, conveying a signalling TCP segment. This value can be between 0x20 and 0xFF and is initialised at 0xA0 (high order byte of parameter 0 in the table).

TIME TO LIVE OF THE IP DATAGRAM

Maximum number of hops an IP datagram can make (number of routers it can cross). This value can be between 1 and 255 and is initialised at 16 (parameter 15 in the table).

ARP INPUTS NUMBER

Default value of the size of the ARP cache. This value can be between 1 and 500 and is initialised at 50 (parameter 5 in the table).

TIME TO LIVE OF THE ARP INPUT SEC

Default value in seconds of the service life of an ARP cache input. This value can be between 1 and 65534 seconds and is initialised at 600 (10 minutes) (parameter 4 in the table).

TIME-OUT NETWORK ALARM START SEC

Timeout value used before an ethernet link is deemed to be disconnected (no LINK), which will put the data links and VOIP trunks out of service. This value can be between 1 and 65534 seconds and is initialised at 120 (2 minutes) (parameter 7 in the table).

TIME-OUT NETWORK ALARM END SEC

Timeout value used before an ethernet link is deemed to be reconnected (LINK re-enabled), which will put the data links and VOIP trunks back in service. This value can be between 1 and 65534 seconds and is initialised at 30 (parameter 8 in the table).

5.7 ALARM CONFIGURATION (MENU 5-7)

☞ For the Call Manager (F5): Menu 5-4 (Alarm configuration).

```
ALARM CONFIGURATION

          1 INDIVIDUALIZED CONFIGURATION

          2 GLOBAL RESET

          ENTER YOUR CHOICE       .
          ----------------------------------------
```

Figure 210: Alarm configuration

5.7.1 INDIVIDUALIZED CONFIGURATION (MENU 5-7-1)

☞ For the Call Manager (F5): Menu 5-4-1 (Individualized configuration)

```
ALARM CONFIGURATION: SELECTION

          DETECTION IN                LOCAL SITE

          BY SBL GROUP                ANAL TRK CARD

          OF ALARM                    ........

          ROUTED TO                   RECORD

          ----------------------------------------
```

Figure 211: Configure the alarms: selection

This screen is used to fully configure the alarms, identified by their origin SBL group, and by type (alarm number in the SBL group).

During installation, the alarms are programmed with a specific number in the SBL group to which they belong (alarm number in the SBL group).

DETECTION IN

Select a local site or another site.

> **Note:** *This field only appears in multi-site configuration.*

BY SBL GROUP

……..	SUPPLY	PROCESSOR	ANAL. TRK CARD
DIG TRK CARD	DATA CARD	SUBSCR CARD	CONFER CARD
ANAL TRK DEV	DIG TRK DEV	DATA DEVICE	SUBSCR.DEV
MANAGEMENT	FALLBACK ACCESS	BILLING	SUBSCR ACTION
DRY LOOP	SUPERVISION	CPU_STARTUP	INTEGR. BUFFER
BUFFER_BLOCK_0	BUFFER_BLOCK_1	BUFFER_BLOCK_2	BUFFER_BLOCK_3
BUFFER_BLOCK_4	CAC SERVER		

Select an SBL group from the list.

OF ALARM

Select the alarm to be processed in the selected SBL group.

ROUTED TO

RECORD	KEY	SET	CENTRALISING
X25 ADDRESS NO. 1	X25 ADDRESS NO. 2	X25 ADDRESS	

Select an output medium.

RECORD	Triggers the transmission of an alarm service record.
KEY	Triggers an LED to light up on a digital set.
SET	Triggers a call to a set (or diverter).
CENTRALISING	Routes the alarm to a centralising site (management centre or external set).
X25 ADDRESS NO. 1	Transmits the alarm to X25 address number 1.
X25 ADDRESS NO. 2	Transmits the alarm to X25 address number 2.
X25 ADDRESS	Transmits the alarm to both X25 addresses.

Note: *The Centralising option is not available in mono-site configuration.*

You can configure X25 addresses number 1 and number 2 in menu 4-1 (Administration parameters).

Press Enter to confirm. The following screen is displayed :

```
<SBL GROUP NAME>        TO <OUTPUT MEDIUM>

           ALARM: NOT EQUIP.              KEYING
           ALARM: DOWNLOAD                KEYING
           ALARM: DISABLED                KEYING
           ALARM: IN SERVICE              KEYING
           ALARM: OUT OF SRV              KEYING
           ALARM: FAULTY                         KEYING
           ALARM: HW-FAULT             NOT TRANS.
           ALARM: LOCKED                         KEYING

           ------------------------------------------------
```

Figure 212: Alarm configuration

ALARM: TYPE

KEYING	NOT TRANS.	NOT URGENT	URGENT

Select a processing type for each alarm.

5.7.2 GLOBAL RESET (MENU 5-7-2)

☞ For the Call Manager (F5): Menu 5-4-2 (Global reset)

```
ALARMS CONFIGURATION RESET

          DETECTION IN                  LOCAL SITE

          REPORTED TO SET               NOT TRANS.

          REPORTED TO KEY               NOT TRANS.

          REPORTED TO TICKET            NOT URGENT

          REPORTED TO CENTRAL.          NOT URGENT

          REPORT TO X25 ADDRESS         NOT TRANS.

          RESET CONFIRMATION            YES

          ---------------------------------------
```

Figure 213: Configure the alarms: global reset

This reset menu is used to define default processing for all LSB groups and alarms.

DETECTION IN

LOCAL SITE | **ANOTHER SITE**

Select the local site if the reset is for alarms detected locally, or another site if the reset is for alarms detected in other sites and due to centralisation of the logbook.

Note: *This field only appears in multi-site configuration.*

REPORTED TO SET / KEY / TICKET / CENTRAL.

KEYING | **NOT TRANS.** | **NOT URGENT** | **URGENT**

ADDRESS 1 | **ADDRESS 2** | **TO 2 ADDR**

Define for each output the default processing for all LSB groups and alarms.

REPORT TO X25 ADDRESS

NOT TRANS. | **ADDRESS 1** | **ADDRESS 2** | **TO 2 ADDR**

Define for the X.25 Address output the default processing for all LSB groups and alarms.

RESET CONFIRMATION

YES | **NO**

Select YES to reset and press Enter to confirm.