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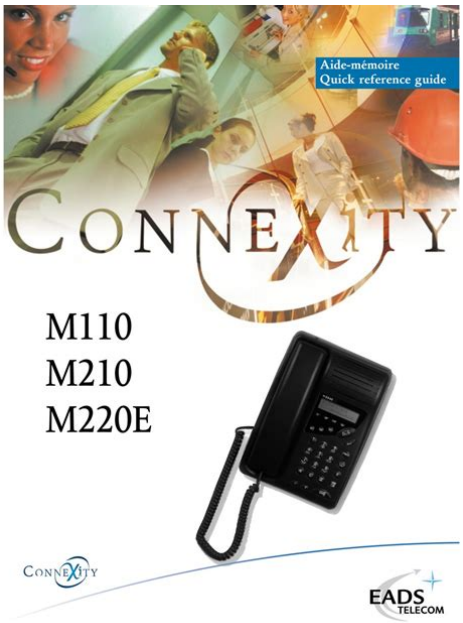

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- **1.0.**

The basic cabinet with the standard OCT4 card is connected to the expansion cabinet, equipped with an ROCT3B card, via an external cable. Each cabinet has its own powersupply module ADS 300. It has a multiprocessor architecture with shared memory resources. The central processing unit is based on a 133 MHz AMD Elan SC520 ASPEN microprocessor and performs all the functions required for connection management. Both the system processor software and application software reside on the CPU card. Page 14 Cabinets and power supplies Externally,M6501R IP PBX and M6501L IP PBX cabinets are identical. Page 15 The M6501L IP PBX The M6501L IP PBX is composed of one or two similar cabinets, depending on the customer configuration. The expansion cabinet can be positioned to the right or left of the main cabinet. Each cabinet contains 6 card slots shelf 0 in the main cabinet and shelf 2 in the expansion cabinet. An optional shelf with 8 card slots enables the capacity of each cabinet to be expanded shelf 1 in the main cabinet and shelf 3 in the expansion cabinet. It can be connected to the public network, a private network, an X.25 public network, and a LAN network. Page 17 The table below lists the external links available. Termination type Card analogue network trunk LR4 ISDN T0 BRI interface LS1 LD4 LD4N Numeris ISDN VN3 VN4compatible ETSI ISDN T2 interface LT2 Numeris ISDN VN3 VN4compatible ETSI PCM digital line LT2. DID signalling Socotel statechange MF for setting up network calls.COLISEE pulse signalling for connection to the COLISEE network. Page 18 Connection capacities IMPORTANT The capacities below are given only as a guide. All set and line combinations are allowed, provided you use no more than 6 cards for the M6501R IP PBX and no more than 14 cards per cabinet for the M6501L IP PBX. The maximum capacities shown in the table below do not apply for simultaneous

operation. It is necessary to determine which configuration is to be used before initialisation.http://lejuriste.ru/files/97-rm-250-service-manual.xml

When the programming console is connected to the system and configured, the main menu below is displayed on screen. PBX MANAGEMENT 1 2 3 4 5 Telephony management Data management System administration Operation administration Installer data ENTER YOUR CHOICE. Page 22 Tree structure The man machine commands MMC are set out in the form of tree structured menus. You can progress through the tree structure by entering information at each level. There is also a special command to move back a level. Menus A menu consists of a menu name, lines, and a box indicating keystroke commands delete, line feed, etc.. A menu can be composed of one or more screens. In multiscreen menus, the titles and boxes are repeated on each successive screen. These lines are displayed with no special effects. The block of text is displayed in the centre of the screen. It may be divided into 1 to 6 screens, each containing 16 lines. There are two major line families simple lines and lines with a data entry field. Keystroke commands The keystroke command box indicates the keystroke commands that can be used in the screen. Page 25 Selection menu Selection menus are displayed on one screen. They are used to enter 1 to 4 selection criteria to identify an element concerned by subsequent processing. If you enter a valid value, a repetitive menu opens. Intermediate data entry menu Intermediate data entry menus may or may not be repetitive. They are similar to terminal data entry menus. They are used to enter any configuration data not entered in the selection menu, if applicable. Repetitive commands are available in repetitive menus. These lines contain a text box on the left edge of the screen. The cursor cannot be positioned on a line of this type. Data entry lines ASCII, numeric, and list, with two zones a text box on the left edge of the screen, and a data entry field on the right edge. Page 27 List lines List lines are used to select a value.

You do not enter the value directly, but identify it with a keyword selected from a predefined list specific to the MMC. This gives better control over entering values no errors are possible. The system also manages a list of prohibited values which can be different for each field referring to the same list. When you position the cursor on this type of line, the list element displayed changes to reverse video. Page 28 RETURN key confirm entry In intermediate menus, this key confirms the current screen and opens the next menu. If an error is detected, an error message is displayed. If no error is detected, the following screen is displayed. In terminal menus, this key confirms the field in which the cursor is positioned and moves the cursor to the next field if no error is detected. CURSOR UP and DOWN keys navigation These two keys are used to move the cursor to the next field or the previous field in a menu. Page 29 Esc key command mode Command B 1 to 4 displayed at the bottom of the screen. This key is used to switch to command mode, which means that the next character will be interpreted as a command and not as an ASCII character. It is only available in terminal menus. The cursor is only moved if the value confirmed in the field in which the cursor is positioned is correct. Up to 16 lines can be selected. When this command is activated, the number of lines already selected is displayed. The lines are printed in the order in which they appear in the menu. Page 32 If the next selection is correct, the new menu is displayed. Page 33 Correspondence between VT100 and Minitel videotex commands The table below shows the correspondence between the VT100 and Minitel keys. The commands are the same for both types of terminal. It is essential to take every precaution necessary for peoples safety. Page 39 Space 24 cm 20 cm Page 40 Equipment checklist The customer may wish to install existing equipment.

To obtain a general idea of the scale of the new installation, you should make a complete inventory Existing equipment If the customer has equipment to install, draw up a hardware inventory of all the equipment supplied by the customer and note the detailed information required for programming in the Programming Record. For example, the customer may supply a common bell device and an external musical source. Page 41 Installing the hardware High leakage currents In the event of a

power line fault near telephone lines, service technicians must be aware of the possibility of high leakage currents on metal system surfaces. Leakage currents normally flow safely through the power cord to protective ground. Isolate the telephone network lines before any servicing on the ICS. The steps in the installation procedure are described below. Installing the cabinet on its support Use the wall mounting bracket to mount the cabinet. Page 43 Installing the hardware 5 Power on preparation. Grounding Connect the cabinets and distribution frames to the buildings ground network. Page 44 Setting the cabinet in place This section describes how to set the cabinet in place on its wall mount. This procedure applies to M6501R IP PBX and M6501L IP PBX cabinets, because they are identical. At each stage of the installation, make sure the equipment has not been damaged in any way. If it has, return it to the supplier. Page 47 To install the cabinet on its wall mount 1 Remove the cover retaining screw on the top of the cabinet. 2 Remove the cover. Remove the power cord and the OCT4 main distribution cable from the main cabinet. 3 Remove the wall mounting bracket at the back of the cabinet. 4 Use this bracket as a template to mark three drill holes on the wall. 5 Take measurements to identify and mark the position of the fourth screw. Page 48 6 Drill the holes. Insert four wall plugs suitable for the type of wall. The fourth screw is used to fix the cabinet in place.

Phase 2 in the diagram on the next page. 8 Place the cabinet on its wall mount as shown in phase 3 in the diagram below. Page 49 Fastening the cabinet to its support 1 Remove the connectors from the front panel of the power supply module. 2 Unscrew the metal parts designed to steady the power supply module during shipping as shown below. 3 Remove the power supply module from the cabinet and place it on the table. 4 Inside the cabinet, insert the retaining screw and tighten it against the bracket as shown below. 5 Refit the power supply module, using the appropriate screws to fix it in place. Page 50 Connecting the M6501L IP PBXcabinets In a twocabinet configuration, the bus extension cable is used to connect the two cabinets together. Page 51 Identifying cards Power to the equipment must be switched off when inserting or removing cards. Page 52 Basic cards Card Overview OCT4 Main card. ROCT3B Bus interface card for the expansion cabinet. This card has 16 digital lines. It is only fitted in the M6501L IP PBX expansion cabinet. One card per M6501L IP PBX system. TMOCT4 Available in two versions with or without memory extension. Page 53 Analogue network card Card LR4 Overview PSTN card with four trunks analogue signalling This card provides a remote set disconnection detection function. The LR4 card must sometimes be fitted with DTOC cards, depending on the specific configuration. Digital network cards Card Overview LT2 This card is used as a PCM digital junction or to provide ISDN PRI access. The PCM digital interface can have 32 channels time slots operating at 2 Mbps. Page 54 Equipment cards Card Overview LA4, LA8 These cards provide analogue equipment circuits basic sets, answering machines, and any other type of analogue terminal. Loop resistance 600 Ohms maximum The LA4 card has 4 lines of this type, and the LA8 has eight. LN4, LN8 These cards are only used for dedicated digital telephones 48 V, 2wire, maximum length 1800 m with a 0.6 mm crosssection wire.

The LN4 card has 4 lines of this type, and the LN8 has eight. It is designed to accommodate daughter cards TMOCT3 and VOCT3. Installing the basic cards consists in equipping the VOCT3 card with optional PROMs and mounting the optional daughter cards on the OCT4 card. The OCT4 card also has an internal battery that saves setup data; this battery must be put into service. Page 56 Installing daughter cards on the OCT4 card The OCT4 card can be fitted with TMOCT4 and VOCT3 daughter cards. To install daughter cards 1 Remove the OCT4 card Disconnect the power cable for the digital equipment circuits on the OCT4 card J13 connector printed IN M48V. Remove the OCT4 card from the cabinet. 2 Install the PROMs on the VOCT3 card if required, following the instructions given above. 3 Install the daughter cards as shown in the diagram below. Page 57 Check the position

of the internal battery The internal battery is installed on the OCT4 card and can be used to save the system setup data. The battery switch is set to OFF while the OCT4 card is in storage. Check that when installing it, the switch is set to ON, as shown in the diagram below. Page 61 Installing the LAN cards These cards are CLX expansion cards. They can only be fitted in the main cabinet. Page 64 Installing the equipment cards There may be lines for digital, analogue, and ISDN extensions, depending on the equipment card installed. Page 65 Wiring the distribution frame Protection against line overvoltages For a new system, it is advisable to use protection modules to protect against PSTN line overvoltages. These modules are inserted between the PSTN and the systems distribution frame. Nevertheless, you are recommended to use the Systimax Premises Distribution System. It is a shielded twisted pair telephone cable. Insulationdisplacement connectors are fitted to one end of the cable. Each connector has a label indicating the relevant connector on the OCT4 card. 2 1 4 3 Legend 1 OCT4 cable. 2 Cable passage.

3 Main distribution frame. 4 Connector strips. Page 67 4 Install the insulationdisplacement connectors insert the wires to be connected into the guides provided pin A and pin B. Exert pressure with gripping pliers when inserting the wires insulationdisplacement connections. Guide holes Polarizing slot Pair Pin A Pin B Pair Pres Closed connector, wire inserted Press Open connector insert wires 5 On the distribution frame side strip the OCT4 cable. A description of the PT2 card is given in Appendix A. The PBX is connected to the Ethernet LAN by plugging the RJ45 connector of the PT2 card into an available LAN socket, as shown in the diagram below. You need 2 pairs to wire an ISDN interface 1 transmit pair and 1 receive pair. One end of the connection lead must be fitted with an ISO 8877 compliant male RJ45 connector. Note Before beginning the wiring procedure, check the settings of the switches on the card. This card handles signalling and the disconnection monitoring function. The release signal polarity inversion must be sent by the public exchange; the signal is detected by the LR4 card. If the PSTN does not send this signal, the LR4 card must be fitted with a DTOC line busy detection daughter card for each TK. Note The basic LR4 card with no DTOC has the reference HJ2765BA and with a DTOC, HJ2765FA. Page 75 Wiring the LIX cards Tie lines TLs are private or leased lines used to interlink two PBXs. Note This mains unit should be supplied from a singlephase, 230 V AC network, excluding IT diagram units defined in standard NF EN 60.950. If the M520 or M640 sets are expanded using an M600 module, the mains unit is connected to the M600. In all cases, the mains unit is connected via an RJ 45 8pin connector. Page 82 Installing an M700 expansion module The M700 expansion module provides M760, M780, i760 and i780 telephone sets with an additional 20 programmable keys with no backlighting.

One or two M700 modules can be added to M760, M760E and i760 sets, and up to three modules to M780 and i780 sets. The procedure for installing an M700 expansion module is given in the M7xx digital set and i7xx IP set Installation Manual ref PS9286BAA01. Page 83 Connecting an LF connector An audio connection is available on M420E, M520, M640, M760 and M780 sets. The stereo jack supplies one input and one output, which can be connected by an appropriate cable to a sound card on the PC. An analogue options card is required for M760 and M780 sets. Connecting a Minitel Minitels can be connected to M420E, M520, M640, M760 and M780 sets. A special lead HK6637 is required for M420E, M520, and M640 sets. In the case of anInternet Telephone i2004, a PC fitted with Terminal Proxy application part of NeXspan Communication Server must be connected to the Ethernet network. The following tables give a list of the circuits in the V24 junction on the CA1 card. Page 88 Wiring a synchronous serial link The shielded serial link cable with the reference HG2830A is used to wire interfaces on the CS1 card. The following tables give a list of the circuits in the V24 junction on the CS1 card. It can be a VT100 console or a PC with VT100 emulation. The programming console can be connected to the system either directly or remotely. Page 90 Connecting a erial printer The serial printer is used to print out records as the system issues them. The service printer is connected via the distribution frame to the pins on the J2 connector of the OCT4 card using a twopair cable A B Note The TXD printer connection is not

necessary for the printer to operate properly. Page 91 To install an external music source 1 Connect the music source output via the distribution frame to the J2 connector on the OCT4 card as shown in the figure below.

Musiconhold A B MUSA A2 GND B2 ETM A1 GND B1 LF input Monitoring device for correct operation of external music source view of loop 2 The music volume can be adjusted via an MMC. Note if there are a DECT base station and an S0 terminal other than the base station on the same card, the base station must be powered with a 40 V supply. Power to the ICS must be switched off when you fit the power cord Always isolate trunk lines before unplugging the mains power cord. Page 95 Fitting the cabinet cover Fire and electric shock Before replacing the cabinet cover, check that you have not left any metal objects such as tools, screws, or clips inside. When all the cards have been installed and wired to the distribution frame, replace the cabinet covers. Page 97 System setup When you have installed the hardware, you can turn on the system. This triggers initial startup, at which point the system software is loaded, the startup tests are run, the application program is loaded and the default configuration is initialised. At the end of this phase, the splash screen appears on the programming console. The first time the hardware is installed, you must reset the system before you start programming. Yellow and green LEDs light up on the front panel of the power supply module. To power up the M6501L IP PBX 1 Power up the expansion cabinet if one is fitted. Press the black button to the left of the power supply module. Page 100 Performing a total reset A total reset clears all data from existing programming. A total reset erases any existing programmed data, and the system configures itself automatically to the installed equipment. A total reset should only be performed when instructed, for example if installing new software. Page 101 System resetting was successful and the system runs normally when the telephones display Monday 01 January 1200 am. Your system is now in service with default settings. Make an internal call to confirm telephone operation.

If you are using ISDN T0 BRI trunks, make an external call, for example to the speaking clock, to confirm outgoing calls. Page 102 Viewing the system ID The system identification number, or ID, is given on a label on the left panel of the main cabinet and on the OCT4 main card. It is also stored in the removable iButton software dongle. Record the system identification code in the Programming Record. It will be useful if you need to restore an upgraded system after a system restart. The system ID can be viewed at any time during a programming session by following these steps 1 Go to menu 3.8.1 Unlock SA functions. Page 103 Display external trunk status Description For viewing the status of equipped external lines to make sure they are available.Page 104 Programming steps 1 Go to menu 4.6.2. External line status; the screen SELECTION OF A STATUS TO MONITOR appears. 2 On the line STATUS SEARCHED, you can select a status. 3 On the line ON TRUNK GROUP, you can select a trunk group. 4 On the line FIRST PHYSICAL EQUIPMENT, select an equipment number if applicable. The external trunk lines on the trunk group are displayed starting with the first position indicated. 5 Press Enter. Page 105 Displaying extension numbers and locations Description For viewing preset extension numbers. Menu 1.1.6.1 DISPLAY BY EQUIPMENT NUMBER Comments To access this screen, enter an equipment number on the line FIRST EQUIPMENT NUMBER. This option shows EQT NO. telephone equipment number TYPE type of telephone connected DN directory number DIDdirect inward dialling number for the extension NAME user name 1.1.6.2 DISPLAY BY INTERNAL DIRECTORY NUMBER This option shows DN directory number EQT NO. Page 106 Menu 1.1.6.6 DISPLAY INTERCOM GROUPS Comments To access this screen, on the line GROUP SELECTION, enter the number of the intercom group to be displayed and press Enter. The system displays a list of all the directory numbers that belong to the group.

Status Comments ANY list of all phones in all statuses FREE list of all phones in service and free PERMNT.Page 108 View IP subscriber status Description The system displays all IP sets declared on the site on the basis of several criteria set type, status of sets application session, directory number

Type of set Comments IP DS IP circuit digital set with IP cartridge i760, i780 and i740 IP native set TD PC IP circuit Software phone application on PC ETHERSET IP circuit Internet telephone Programming steps 1 Go to menu 4.6.1.2 IP subscribers status. The screen APPLICATION SELECTION appears. Page 109 Chapter 2 Expanding the installation System backup Save the customers configuration before and after expanding the installation. The following two procedures describe how to install and put in service the ADS300 and OCT4. Note Part 1 of this manual contains full CPU card installation and cabling details. Appendix A sets out the characteristics of the ADS300 and OCT4. Page 112 Installing and putting in service the OCT4 card The purpose of this operation is to replace the standard OCT3B card with the standard OCT4 card. The OCT4 card is managed in release R2.1 V14.2 and later. Power off Ensure that power to the system is switched off at all times while the cabinet cover is open. Press Enter to confirm. Wait a few seconds. Page 115 Description of the ICS equipment The table below describes the cards declared in menu 3.2 card management. Parameter name Card Device on card 4 DIG. ANAL. LA4 4 analogue terminals 4 DIG. EXT. LN4 4 digital terminals 8 DIG. ANAL. LA8 8 analogue terminals 8 DIG. BOTHWAY LM8 4 analogue extensions, 4 digital extensions 8 DIG. EXT. LN8 8 digital terminals 4 ANAL. Page 116 Expanding the M6501R IP PBX Power off Power off the system before opening the cabinet. Adding an expansion shelf Textual specification Add an expansion shelf, providing up to eight additional card slots. Remove the front cover of the cabinet.

3 Remove the internal battery retaining screw. Page 117 4 Disconnect the internal battery and remove it from the cabinet. 5 Install the expansion shelf. Secure the shelf in place with the screws provided. J1 J1 1 4 1 1 J5 4 1 J5 4 J4 4 J4 1 4 1 1 J3 4 1 J3 4 J2 4 J2 6 Insert the cards in the new shelf and connect them as required. 7 Close the front cover of the cabinet. 8 Power on the system. 9 Perform a full system reset to declare all the new cards and put them in service. 10 Restore the saved configuration and program the new components. Page 118 Upgrading from an M6501R IP PBX to an M6501L IP PBX Power off Power off the system before opening the cabinet. Textual specification The aim of this procedure is to describe how to upgrade from an M6501R IP PBX to an M6501L IP PBX. This operation is necessary if an expansion cabinet is to be fitted to an M6501R IP PBX. Textual specification Add an expansion shelf, providing up to eight additional card slots. You can fit an additional shelf in the main or expansion cabinet. Page 120 Adding an expansion cabinet Power off Power off the system before connecting the two cabinets. The expansion cabinet is supplied with a bus extension cable, an uninterruptible electric power supply module and an ROCT3B bus expansion card. Refer to Part 1 of this manual for full cabinet and card installation details. Steps 1 Unpack the expansion cabinet and secure it to the wall, 20 to 30 cm 8 to 12 inches from the main cabinet. 2 Install the backup battery in the expansion cabinet. Page 121 Additional data link A data link requires an unused circuit card. If necessary, install and connect a new circuit card. The table below shows the circuit cards that can be used to connect data terminals and set up data links. Circuit card Data interface CA1 4 asynchronous V24 interfaces CS1 2 asynchronous X25 interfaces Connecting the data link Configure the card as specified in Appendix A.

Page 122 Additional trunk lines When the capacity of the ICS is increased, traffic from the new extensions may saturate the existing trunk lines. To avoid this, you can install additional trunk lines. The table below gives details of the trunk line circuit cards. Page 123 Assigning a trunk line to an existing trunk group A trunk line must be associated with a trunk group of the same type; this can be an existing group or a new one can be created. Note You cannot associate a trunk line with a trunk group of a different type. 1 Go to menu 1.2.3 Line characteristics and select the location of the network card. 2 On the line TRUNK GROUP, select the existing trunk group. Press Enter. Note An ISDN T0 BRI trunk line has two B channels. Page 124 Additional sets Adding a new extension requires an unused circuit card. The table below gives details of the circuit cards for digital and analogue. Page 125 Upgrading the software IMPORTANT Downloads must be performed when there is no traffic. While upgrading the software, all internal and outgoing calls are suspended throughout

the procedure. The ICS software is initially loaded and tested at the factory. It is then upgraded when necessary. Page 126 Upgrading the ICS software Textual specification This procedure involves loading new software versions onto the ICS. If this directory is suitable, press Enter to confirm the creation of this directory. They inform the operator that the maintenance software has detected an event to be monitored. These formats are described in the following sections. See Appendix C for the meaning of each number. PCS Processor number. 0 indicates the OCX card. LC Identification number of the program that detected the fault. Page 134 Logical security blocks LSB Automatic maintenance sees the configuration as a set of hierarchically arranged logical security blocks LSB. The action consists in changing the security block status. This occurs, for example, when the LSB one step up in the hierarchy is faulty.

Troubleshooting by lamp indication on circuit cards will be described in the next version. Page 139 Problems with telephones At calling station START Dial tone cannot be heard Check 1 On the MDF, connect a test telephone set to the faulty station line. 2 If dial tone can be heard, check the cabling and telephone set. 3 If no dial tone, check the wiring on the MDF and line circuit card. Replace 1 Line circuit card. 2 Telephone set. After dialling the first digit, dial tone is still audible. At DTMF telephone set. Check Replace 1 User characteristics menu 1.1.1.. 1 DTMF receiver. Page 140 At called station START The telephone does not ring at the called station. Replace 1 Line circuit card. 2 Telephone set 3 PWR SUPPLY UNIT if all the sets in the same cabinet fail. The call is routed to a station other than the called number. 1 Call ForwardingCheck All Calls feature is activated a.Ringing signal is not disconnected after going offhook. After finding the cause of the power surge, use the following procedure to change the fuses in the ICS. Steps 1 Power off the PBX. The first address is the number of the shelf in which the card is fitted. The second address is the number of the slot in which the card is fitted. The third address is given by the MMC which assigns an equipment number. Page 145 Card locations Main cabinet The following tables show the positions of the various cards of the M6501L IP PBX in the shelves of the main cabinet. Page 146 Expansion cabinet The following tables show the positions of the M6501L IP PBX various cards in the shelves in the expansion cabinet. To this end, a factoryprewired cord is supplied with the ADS300. This card controls priority on the system bus and is preinstalled at the factory on the cabinet backplane. Page 153 NAME Function J4 Description of the contacts Position of the TMOCT4 card. J5 Location of the VOCT3 card. 21 40 1 20 J9 Vue cote pins 1 9 16 9 10 11 12 13 14 15 16 8 Alarm input connections and dry relay contact locations.