Maintenance

The **Maintenance** menu allows the access to several functions as the configuration of NE (DCC channels, NSAP and MAC addresses, etc.) and the performance collection configuration.

See Also:

> **Database Clear, DCC Configuration, Exception Report Enable, Inventory Data, MOST Switch, NE General Parameters, Network Configuration, Performance Data Collection, Performance Exception Thresholds, Performance Parameters, Serial Port Configuration, Software Download, Software Info**

NE General Parameters

(Maintenance -> NE Setup -> Management)
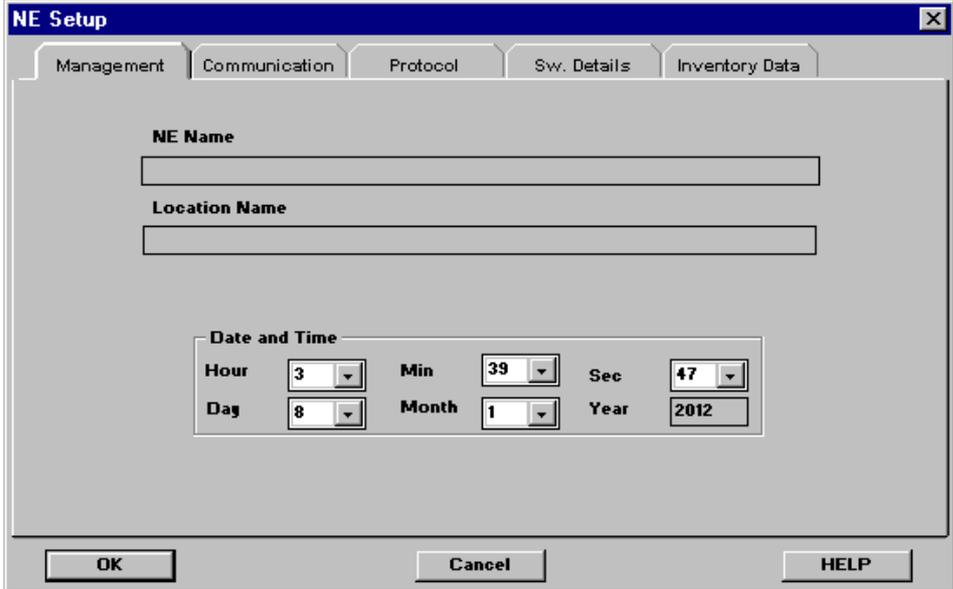
The **Management** folder gives access to NE name, NE location, date and time.

To modify NE name and location, proceed as follows:

1. Insert the NE name (max.50 characters), by writing in the relevant field.

2. Insert the location of the NE (max.100 characters but only 74 can be displayed on the main window), by writing in the **Location Name** field.

To modify the date and time settings, proceed as follows:

1. Insert time, day and month, by acting on the relevant scroll lists.

2. Insert the year (from 1997 to 2096), by writing it in the relevant field.

DCC Configuration

(Maintenance -> NE Setup -> Communication)
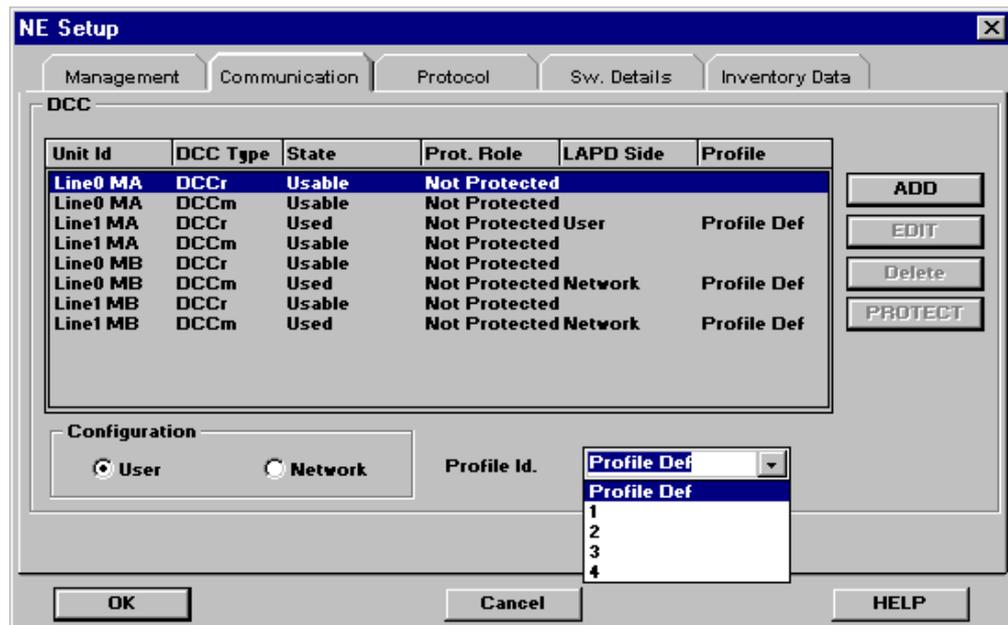
The **Communication** folder is used to configure the parameters relevant to the DCCs management. The main element of this window is a list of the available DCCs, with the following fields:

Unit Id
   displaying the unit identifier.

DCC Type
   displaying the DCC type.

State

indicating whether or not the channel is available.

Prot. Role
   indicating the protection role of the DCC.

LAPD Side
   indicating the DCC protocol.

Profile Id.
   indicating the profile used for the specific DCC.

To enable a DCC, proceed as follows:

1. Select a DCC, by clicking on it in the list.

2. Click on the **ADD** button.

3. Define its LAPD side (User or Network), by checking the relevant **Configuration** radio button. To perform a correct communication, a DCC link side must be defined as User and the other one as Network.

4. Select, by means of **Profile Id** scroll list, a DCC profile (that is a predefined set of OSI parameters), to be used.

To modify the settings of an enabled DCC, proceed as follows:

1. Select a DCC, by clicking on it in the list.

2. Define its new LAPD side (User or Network), by checking the relevant **Configuration** radio button.

3. Select, by means of **Profile Id** scroll list, a new DCC profile, to be used.

4. Click on the **EDIT** button.

To disable a DCC, proceed as follows:

1. Select a DCC, by clicking on it in the list.

2. Click on the **DELETE** button.
The **Deleting DCC** window is displayed.
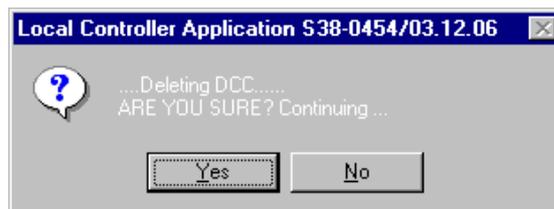
3. Click on **Yes** button.

To protect a DCC, proceed as follows:

1. Select a DCC, by clicking on it in the list.

2. Click on the **PROTECT** button.

--------- This option is available only for the DCCm belonging to the units acting as worker in MSP protection; the DCCm belonging to the MSP protection unit will be the protection one.

Network Configuration

(Maintenance -> NE Setup -> Protocol)
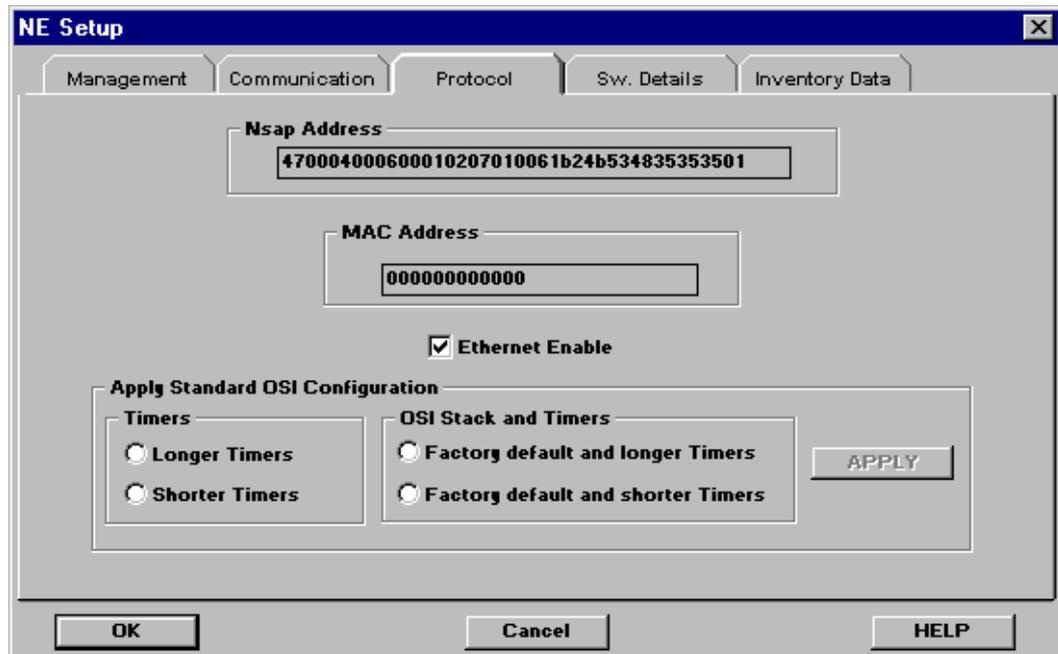
The **Protocol** folder is used to configure the network addresses used by ADM-1.

To modify the network parameters, proceed as follows:

1. Enter the **NSAP Address** of ADM-1. This address is formed by 20 bytes expressed in hexadecimal, written consecutively in the **NSAP Address** field, and it is the address used by layer 3 of OSI protocol stack.

2. Enter the MAC address of ADM-1. This address is formed by 6 bytes, expressed in hexadecimal, written consecutively in the **MAC Address** field, and it is the address of the equipment on a LAN.

3. Enable or not the use of Q interface, for the connection of ADM-1 to a LAN, by checking or not the **Ethernet Enable** check box.

4. Select **Longer Timers** or **Shorter Timers** by clicking the relevant radio button in the **Timers** field. In the following table the Short and Long Timer are listed:

TIMERS	SHORT CONFIG VALUE	LONG CONFIG VALUE
Retransmit Timer (for each DCC profile)	10	20
Idle Timer (for each DCC profile)	150	200
ISIS Hello Timer (for each DCC profile)	3	15
ISH Timer (for each DCC profile)	300	300
Global ISIS Hello Timer	3	10
ISO9542 IS Configuration Timer	10	30
Inactivity Timer	1280	3000
Window Timer	160	750
Initial Retransmit Timer	80	120
Lower Retransmit Timer	80	120
Upper Retransmit Timer	80	120
Retransmit Counter Timer	4	8

5. Decide if you want to restore (if it has been modified) the default OSI Stack and Timer Configuration by selecting the proper option in the **OSI Stack and Timers** field.
By clicking the **Factory default and longer Timers** the all OSI parameters will be set to the factory default values while the timers will be set to their longest values.
By clicking the **Factory default and shorter Timers** the all OSI parameters will be set to the factory default values while the timers will be set to their shortest values.
Confirm the selection by clicking on the **Apply** button.
The Short and Longer values are listed in the above table and the default values are listed as follows:

OSI PARAMETER	DEFAULT VALUE
CLNS Options	0
CLNP checksum flag	0
CLNS Router Type	1
Level 1 Buffer Size	1492
Level 2 Buffer Size	1492
DR ISIS Hello Timer	1

Partition Repair flag	0
CLNP Lifetime	64
Max Path Split	2
Max area addresses	3
Min LSP Tx Interval	5
Max LSP Gen Interval	900
Min LSP Gen Interval	30
Min Broadcast LSP Tx	33
CSNP Interval	10
PSNP Interval	2
ES Poll Rate	50
Wait Timer	60
Max Virtual Adjustment	2
Manual Area Address Len	0
Manual Area Address	0 0 0 0 0 0 0 0
Ethernet ISO9542 Options	7
Ethernet External Domain	0
Ethernet L2 Only	0
Ethernet Max Size	1492
Ethernet Level 1 Metric	20
Ethernet Level 2 Metric	20
Ethernet Level 1 Priority	64
Ethernet Level 2 Priority	64
Lsap	0xFE
ISO9543 Redirect Timer	1800
ISO9542 ES Config Timer	60
Ethernet Hold	3
Num Reach Addr Prefixes (RAP)	0
RAP Identifier (for each RAP)	0
RAP Type (for each RAP)	1

RAP Len	0
RAP address	0 0 0 0 0 0 0
RAP Metric	20
RAP Cid	0 0 0 0 0
Layer 4 Initial Window Size	2
Layer 4 credit	4
Layer 4 Max TPDU Size	3
Local Ack	100
Local Flow Control	100
n201 (for each DCC profile)	1513
MaxSize (for each DCC profile)	1492
LAPD Mode	1
Window Size	7
Level 1 Metric	20
Level 2 Metric2	0
Unused	0
External Domain	0
DCC_r_m	0
Retransmit Count	3
Cong Timer	10
ISO9542 Options	7
Esc Timer	600
Hold	3

6. Confirm the settings by clicking on the **OK** button.

Software Info

(Maintenance -> NE Setup -> Sw. Details)

The **Sw Details** folder is used to display the EPROM codes and the software stored on the FLASH banks of the available units.

Together with the codes it is also displayed the active FLASH bank.

The following fields are displayed:

Unit Id
    displaying the unit identifier.

Boot Eprom
    displaying the BOOT EPROM code.

Bank 1 Sw

displaying the software code installed on the bank 1.

Bank 2 Sw

displaying the software code installed on the bank 2.

Act Bank

indicating the active bank in use.

Inventory Data

(Maintenance -> NE Setup -> Inventory Data)

The **Inventory Data** folder is used to display all the hardware details of the available units (unit type, serial number, unit code, revision).

The following fields are displayed:

Unit Id
  displaying the unit identifier.

Unit Type
  displaying the unit type.

Serial Number

displaying the unique number of the unit or subunit.

Part Number

displaying the physical identifier code number of the unit.

Revision

displaying the revision of the physical identifier code number of the unit.

Performance Parameters

(Maintenance -> Performance -> Configuration)

This function is used to access general performance parameters of ADM-1 (i.e. number of errored blocks to generate a SES, number of consecutive SES to generate a CSES, etc.). By selecting this function the **Performance Configuration** window becomes accessible.

Performance Configuration

Operating Configuration

SES Thrs. (#block x sec.)   `30`

CSES Thrs. (#consecutive SES)   `2`

UAS Thresholds

TUE(#EFS to stop)   `10`

SUE(#SES to start)   `10`

SDH Defects Enable State

☑ LP-RDI	☑ LP-UNEQ	☑ TU-LOP	☑ MS-AIS
☑ HP-RDI enabl	☑ LP-TIM	☑ TU-AIS	☑ RS-TIM
☑ HP-LOM	☑ HP-PLM	☑ HP-UNEQ	☑ LOF
☑ HP-TIM	☑ AU-LOP	☑ AU-AIS	☑ LOS

| OK | Cancel | HELP |

To configure the performance parameters, proceed as follows:

1. Define the threshold (the number of errored blocks per second) to emit a SES indication , by using the relevant scroll list (from 1 to100 with step 1, default 30).

2. Define the threshold (the number of consecutive SES) to emit a CSES indication, by using the relevant scroll list (from 2 to 9 with step 1, default 2).

3. Define the number of Error Free Seconds necessary to stop an Unavailable Second (UAS) period, by using the **TUE** scroll list (where TUE stands for Termination of Unavailability period Event). (from 2 to 10 with step 1, default 10).

4. Define the number of CSES necessary to start an Unavailable Second (UAS) period, by using the **SUE** scroll list (where SUE stands for Start of Unavailability period Event) (from 2 to 10 with step 1, default 10).

5. Confirm the configuration by clicking on the **OK** button.

--------- The field SDH Defects Enable State is not available yet.

See Also:
   Performance Data Collection

Exception Report Enable

(Maintenance -> Performance -> Exception Report Enabling)

This function is used to enable, for all the monitored entities, the Exception Report. When an exception on a performance parameter is enabled, if a fixed threshold (a number of events stored in the active register) is overcome, an *Exception* indication is emitted. By selecting this function the **Performance Exception Report Enabling** window becomes accessible.
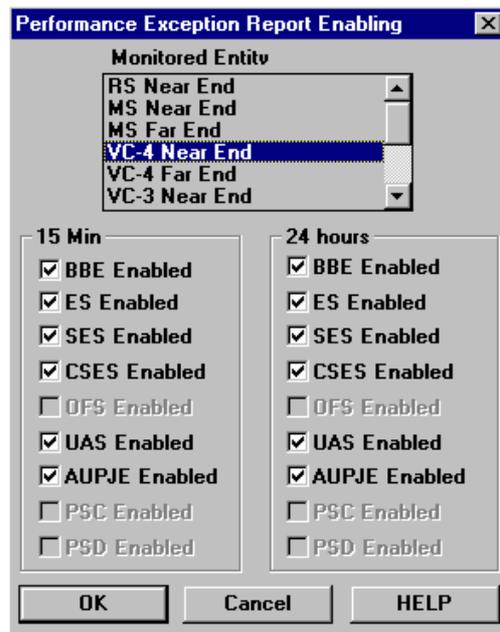
To enable the performance exception report, proceed as follows:

1. Select one of the **Monitored Entities** by clicking on it in the relevant scroll list.

2. Select the events on which the exception report must be enabled in the 15 minutes registers, by checking the relevant check buttons in the **15 minutes** list.

3. Select the events on which the exception report must be enabled in the 24 hours registers, by checking the relevant check buttons in the **24 hours** list.

The default settings are already checked.

4. Confirm the configuration by clicking on the **OK** button.

See Also:

Performance Data Collection, Performance Exception Thresholds

Performance Data Collection

(Maintenance -> Performance -> Data Collection and Monitoring Configuration)

This function is used to select an entity to be monitored and to start the performance data collection. By selecting this function the **Performance Monitoring Configuration** window becomes accessible.
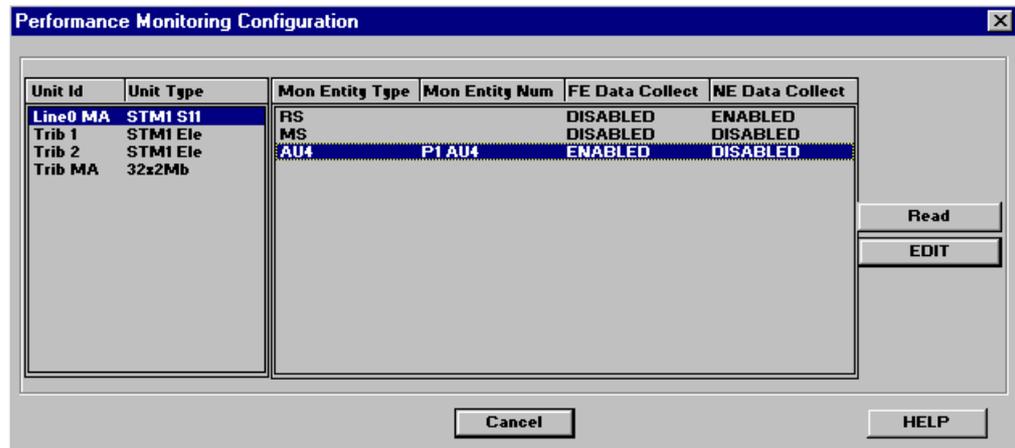
To start the performance data collection, proceed as follows:

1. Select the monitored unit, by clicking on it in the **Unit Id** list.

2. Select the monitored port/channel, by clicking on it in the **Mon Entity Type** list.

3. Click on the **EDIT** button.

The **Performance Monitoring Management** window will become accessible.
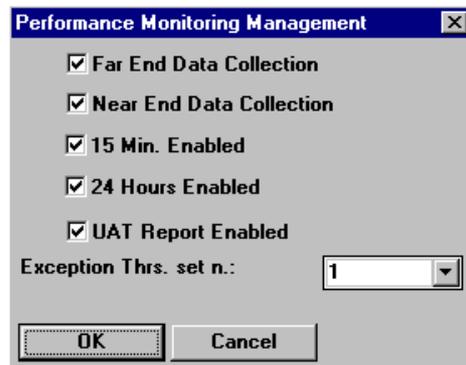
4. Enable, or not, the **Near End Data Collection** or **Far End Data Collection**, by checking the relevant check boxes.

5. Enable the use of 15 minutes and/or 24 hours registers, by checking the relevant check buttons.

6. Enable or not the Unavailability Time report, by checking or not the **UAT** check box.

If this report is enabled, whenever a UAS event is detected, a relevant indication is emitted on the NE Log.

7. Define the used **Exception Threshold Set** by using the relevant scroll list (from 1 to 8).

8. Confirm the settings by clicking on the **OK** button.

The data collection will be started and the available registers will be displayed by clicking on **READ** button and selecting **Far End 15 min** or **Far End 24 hours** folder.

To display the data collection results, proceed as follows:

1. Select an active monitored unit by clicking on **Unit Id** list.

2. Select the port/channel, by clicking on it in the **Mon Entity Type** list.

Click on **Read** button.
The **Performance Monitoring Configuration** window will become accessible.
The window is divided into four folders, representing the different monitoring mode (Near End 15min, Near End 24 hours, Far End 15min and Far End 24 hours).

3. Select the desired folder (Near End 15min, Near End 24 hours, Far End 15min and Far End 24 hours).

4. Click on the **Request** button, to displays the *Current* data.

The results will be displayed, in the uppermost part of the **Performance Monitoring Configuration** window.

The recent data are displayed in the lowermost part in the **History Data** field.
The Suppressed counter displays the number of empty recent samples with data to report.

In the right uppermost part of the window a scroll list is available. This field displays the list of abbreviations that can appear in the **Report Note** area

To modify the parameters of a data collection, proceed as follows:

1. Select an active monitored entity in the **Performance Monitoring Configuration** window, by clicking on it in the **Monitored Entity Type** list.

2. Click on the **EDIT** button.

   The **Performance Monitoring Management** window will become accessible.

3. Repeat steps from 4 to 7.

4. Confirm the operation by clicking on the **OK** button.

To stop a performance data collection, proceed as follows:

1. Select an active monitored entity in the **Performance Monitoring Configuration** window, by clicking on it in the **Monitored Entity Type** list.

2. Click on the **EDIT** button.

   The **Performance Monitoring Management** window will become accessible.

3. Disable the performance data collection by removing the checks in the **Far End** / **Near End** check boxes.

4. Confirm the operation by clicking on the **OK** button.

   See Also:

   Exception Report Enable, Performance Exception Thresholds, Performance Parameters

Performance Exception Thresholds

(Maintenance -> Performance -> Exception Thresholds -> Set n)

This function gives access to eight configurable sets of exception thresholds. These sets can be used when starting a performance data collection. By selecting this function the **Performance Monitoring** window becomes accessible.

The window is divided into six folders, representing the different monitored entities (MS, RS, VC-4, VC-3, VC-2 and VC-12).

Each folder is divided into two sections (four for the entities on which are available both the Near End and the Far End monitoring), with a section for the 15 minutes register and a section for the 24 hours register.

(Maintenance -> Performance -> Exception Thresholds -> Set n -> MS)

The **Performance Monitoring Configuration** of the Multiplex Section window displays the following information:

MS NE 15 Min.

BBE	from 1 to 16777215	default 9600
ES	from 1 to 900	default 150
SES	from 1 to 900	default 30
UAS	from 1 to 900	default 25
PSC	from 1 to 900	default 10
PSD	from 1 to 900	default 10

MS FE 15 Min.

BBE from 1 to 16777215   default 9600

ES   from 1 to 900   default 200

SES   from 1 to 900   default 30

UAS   from 1 to 900   default 25

MS NE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 1500

SES   from 1 to 86400   default 300

UAS   from 1 to 86400   default 200

PSC   from 1 to 86400   default 60

PSD   from 1 to 86400   default 50

MS FE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 1500

SES   from 1 to 86400   default 300

To configure the exception thresholds for the MS, proceed as follows:

1. Select a monitored entity, by clicking on the relevant MS folder, in the upper part of the window.

2. For both the 15 minutes and the 24 registers (and for both the Near End and the Far End entities) set, for each monitored quantity (i.e. BBE, ES, etc.), the number of stored events representing the *Exception Threshold.*

3. Click on **OK** button.

--------- For a full description of the monitored events, make reference to Appendix PF "Performance Monitoring".

--------- For restoring the default parameter click on **Default** button.

See Also:

Exception Report Enable, Performance Data Collection

(Maintenance -> Performance -> Exception Thresholds -> Set n -> RS)

The **Performance Monitoring Configuration** of the Regenerator Section window displays the following information:

RS NE 15 Min.

BBE   from 1 to 65535   default 9600

ES   from 1 to 900   default 150

SES   from 1 to 900   default 30

OFS   from 1 to 900   default 10

UAS   from 1 to900   default 25

RS NE 24 hours

BBE   from 1 to 16777215   default 40000

ES   from 1 to 86400   default 1500

SES   from 1 to 86400   default 300

OFS   from 1 to 86400   default 50

UAS   from 1 to 86400   default 200

To configure the exception thresholds for the RS, proceed as follows:

1. Select a monitored entity, by clicking on the relevant button, in the upper part of the window.

2. For both the 15 minutes and the 24 registers (introduce, for each monitored quantity (i.e. BBE, ES, etc.), the number of stored events representing the *Exception Threshold.*

3. Click on **OK** button.

--------- For a full description of the monitored events, make reference to Appendix PF "Performance Monitoring".

--------- For restoring the default parameter click on **Default** button.

See Also:

Exception Report Enable, Performance Data Collection

(Maintenance -> Performance -> Exception Thresholds -> Set n -> VC-4)

The **Performance Monitoring Configuration** of the VC-4 window displays the following information:

VC-4 NE 15 Min.

BBE	from 1 to 65535	default 9600
ES	from 1 to 900	default 150
SES	from 1 to 900	default 30
UAS	from 1 to 900	default 25
PJE	from 1 to 86400	default 9600

VC-4 FE 15 Min.

BBE	from 1 to 65535	default 9600
ES	from 1 to 900	default 150
SES	from 1 to 900	default 30
UAS	from 1 to 900	default 25
PJE	from 1 to 65535	default 9600

VC-4 NE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 1500

SES   from 1 to 86400   default 300

UAS from 1 to 86400   default 200

PJE   from 1 to 86400   default 40000

VC-4 FE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 1500

SES   from 1 to 86400   default 300

UAS from 1 to 86400   default 200

PJE   from 1 to 65535   default 40000

To configure the exception thresholds for the VC-4, proceed as follows:

1. Select a monitored entity, by clicking on the relevant VC-4 folder, in the upper part of the window.

2. For both the 15 minutes and the 24 registers (and for both the Near End and the Far End entities) set, for each monitored quantity (i.e. BBE, ES, etc.), the number of stored events representing the *Exception Threshold.*

3. Click on **OK** button.

--------- For a full description of the monitored events, make reference to Appendix PF "Performance Monitoring".

--------- For restoring the default parameter click on **Default** button.

See Also:

Exception Report Enable, Performance Data Collection

(Maintenance -> Performance -> Exception Thresholds -> Set n -> VC-3)

The **Performance Monitoring Configuration** of the VC-3 window displays the following information:

VC-3 NE 15 Min.

BBE   from 1 to 65535   default 1200

ES   from 1 to 900   default 20

SES   from 1 to 900   default 4

UAS   from 1 to 900   default 25

PJE   from 1 to 86400   default 9600

VC-3 FE 15 Min.

BBE   from 1 to 65535   default 1200

ES   from 1 to 900   default 20

SES   from 1 to 900   default 4

UAS   from 1 to 900   default 25

PJE   from 1 to 65535   default 9600

VC-3 NE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 200

SES   from 1 to 86400   default 40

UAS from 1 to 86400   default 200

PJE   from 1 to 86400   default 40000

VC-3 FE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 200

SES   from 1 to 86400   default 40

UAS from 1 to 86400   default 200

PJE   from 1 to 65535   default 40000

To configure the exception thresholds for the VC-3, proceed as follows:

1. Select a monitored entity, by clicking on the relevant VC-3 folder, in the upper part of the window.

2. For both the 15 minutes and the 24 registers (and for both the Near End and the Far End entities) set, for each monitored quantity (i.e. BBE, ES, etc.), the number of stored events representing the *Exception Threshold.*

3. Click on **OK** button.

--------- For a full description of the monitored events, make reference to Appendix PF "Performance Monitoring".

--------- For restoring the default parameter click on **Default** button.

See Also:

Exception Report Enable, Performance Data Collection

(Maintenance -> Performance -> Exception Thresholds -> Set n -> VC-2)

The **Performance Monitoring Configuration** of the VC-2 window displays the following information:

VC-2 NE 15 Min.

BBE from 1 to 65535   default 1200

ES   from 1 to 900   default 20

SES   from 1 to 900   default 4

UAS   from 1 to 900   default 25

PJE   from 1 to 86400   default 9600

VC-2 FE 15 Min.

BBE from 1 to 65535   default 1200

ES   from 1 to 900   default 20

SES   from 1 to 900   default 4

UAS   from 1 to 900   default 25

PJE   from 1 to 65535   default 9600

VC-2 NE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 200

SES   from 1 to 86400   default 40

UAS   from 1 to 86400   default 200

PJE   from 1 to 86400   default 40000

VC-2 FE 24 hours

BBE from 1 to 65535   default 40000

ES   from 1 to 86400   default 200

SES   from 1 to 86400   default 40

UAS   from 1 to 86400   default 200

PJE   from 1 to 65535   default 40000

To configure the exception thresholds for the VC-2, proceed as follows:

1. Select a monitored entity, by clicking on the relevant VC-2 folder, in the upper part of the window.

2. For both the 15 minutes and the 24 registers (and for both the Near End and the Far End entities) set, for each monitored quantity (i.e. BBE, ES, etc.), the number of stored events representing the *Exception Threshold.*

3. Click on **OK** button.

--------- For a full description of the monitored events, make reference to Appendix PF "Performance Monitoring".

--------- For restoring the default parameter click on **Default** button.

See Also:

Exception Report Enable, Performance Data Collection

(Maintenance -> Performance -> Exception Thresholds -> Set n -> VC-12)

The **Performance Monitoring Configuration** of the VC-12 window displays the following information:

VC-12 NE 15 Min.

BBE   from 1 to 65535   default 1200

ES   from 1 to 900   default 20

SES   from 1 to 900   default 4

UAS   from 1 to 900   default 25

PJE   from 1 to 86400   default 9600

VC-12 FE 15 Min.

BBE   from 1 to 65535   default 1200

ES   from 1 to 900   default 20

SES   from 1 to 900   default 4

UAS   from 1 to 900   default 25

PJE   from 1 to 65535   default 9600

VC-12 NE 24 hours

BBE   from 1 to 65535   default 40000

ES   from 1 to 86400   default 200

SES   from 1 to 86400   default 40

UAS from 1 to 86400   default 200

PJE   from 1 to 86400   default 40000

VC-12 FE 24 hours

BBE   from 1 to 65535   default 40000

ES   from 1 to 86400   default 200

SES   from 1 to 86400   default 40

UAS from 1 to 86400   default 200

PJE   from 1 to 65535   default 40000

To configure the exception thresholds for the VC-12, proceed as follows:

1. Select a monitored entity, by clicking on the relevant VC-12 folder, in the upper part of the window.

2. For both the 15 minutes and the 24 registers (and for both the Near End and the Far End entities) set, for each monitored quantity (i.e. BBE, ES, etc.), the number of stored events representing the *Exception Threshold.*

3. Click on **OK** button.

--------- For a full description of the monitored events, make reference to Appendix PF "Performance Monitoring".

--------- For restoring the default parameter click on **Default** button.

See Also:

Exception Report Enable, Performance Data Collection

Software Download

(Maintenance ->Software Download)

This item is used to perform an upgrade of the application software on the equipped units.
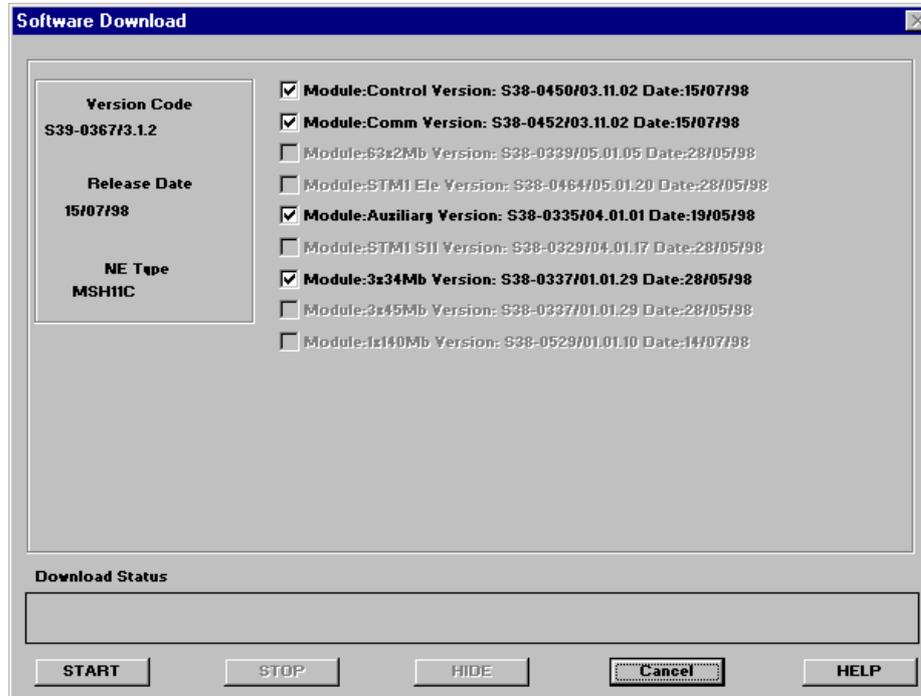
To perform a software download operation:

1. Select the unit types to upgrade, by checking them in the available list.

2. Start the download operation by clicking on the **START** button.

3. Click on the **HIDE** button to have the download operation performed in background mode (other operations can be performed on the equipment while the software download takes place). During the download procedure, the percentage will be displayed on the lower window of the main menu.

When the software download is completed a spontaneous warning window appears on the screen.

IMPORTANT   With the application software is also given a list of the units to be upgraded. This list is included in the file **download.ini**, which is installed in the directory used by the Control Application. Also the application software must be copied in the directory used for the Control Application software.

See Also:

Bank Switch, Bank Validation

Database Upload

(Maintenance->Database Upload/Download)

This item is used to upload the equipment configuration on the Personal Computer.
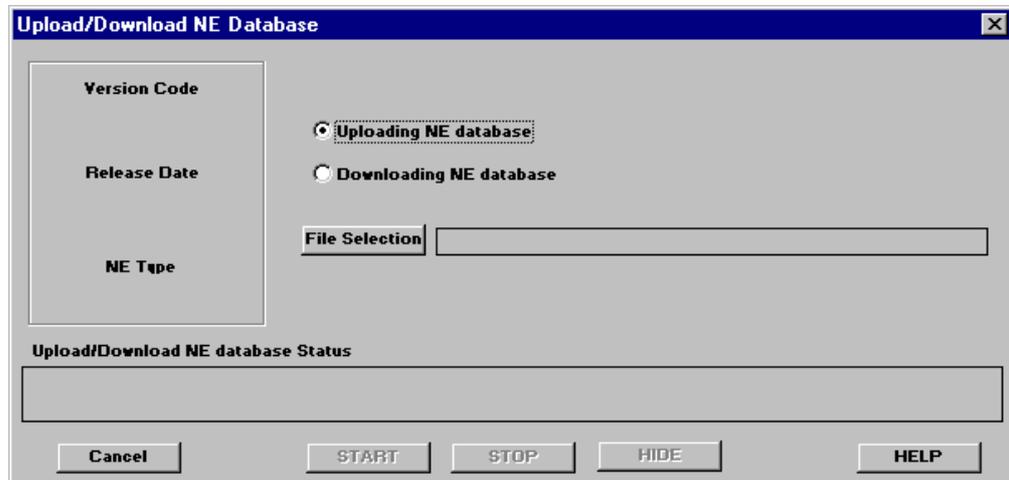
To perform a software upload operation:

1. Select **Uploading NE database**

2. Set the file name, by clicking on the **File Selection** button

3. Start the upload operation by clicking on the **START** button.

4. Click on the **HIDE** button to have the upload operation performed in background mode (other operations can be performed on the equipment while the database upload takes place).

See Also:

Database Clear, Database Download

Database Download

(Maintenance->Database Upload/Download)

This item is used to download the equipment configuration on the controller.
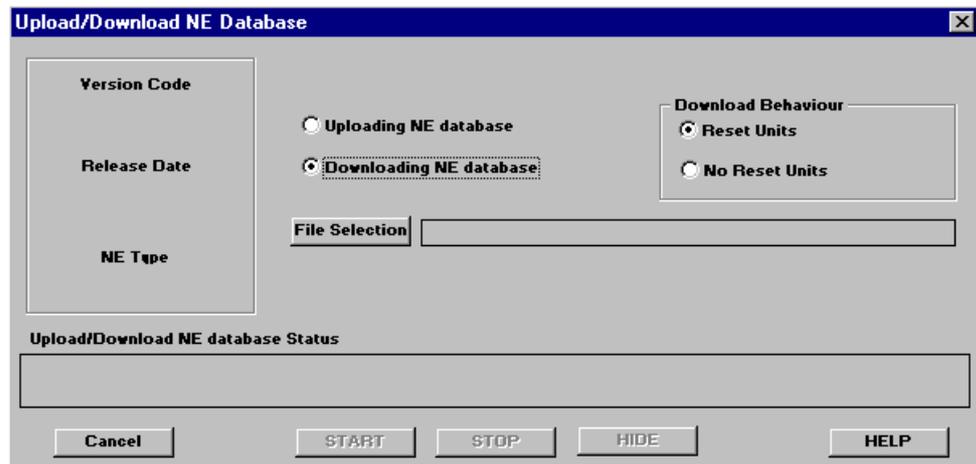
To perform a software download operation:

1. Select **Downloading NE database**.

2. Select the download mode: **Reset Units** (the units will be reset before the download) or **No Reset Units** (the units will be not reset before the download).

3. Select the file containing the equipment configuration to download, by clicking on the **File Selection** button.

4. Start the download operation by clicking on the **START** button.

5. Click on the **HIDE** button to have the download operation performed in background mode (other operations can be performed on the equipment while the file download takes place).

See Also:

Database Clear, Database Upload

MOST Switch

(Maintenance ->MOST Switch)

> This function is used to force the switch from the working to the stand-by MOST Unit.
>
> This protection involves the functions related to equipment supervision, synchronisation management, cross connection management and partial DCC management.
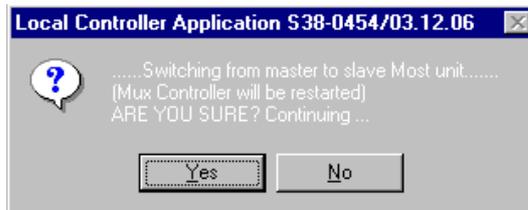

> Once the switch is performed, the MOST Unit is restarted.

--------- This function is hitless for what concerns the traffic, except for 2Mbit/s modules.

Serial Port Configuration

(Maintenance ->Serial Port Config.)

> This operation allows the selection of the in use serial port for connecting the Local Controller.
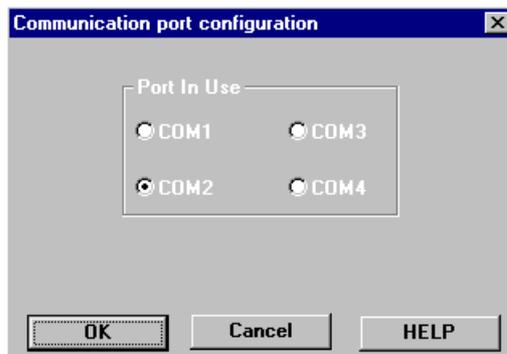
> **To select the serial port**

1. Select the serial port used for the connection of Control Application, by checking the relevant **COM** radio button.

2. Confirm the selection using the **OK** button.

Language Configuration

(Maintenance->Language Configuration)

To change the local operator's language configuration:

1. Select the suitable language file, by clicking on it.

2. Confirm the selection using the **OK** button.

NOTICE   The application of language function will be performed after an automatic ADM-1 local operator's program log-out.

Local Controller Protocol Version

(Maintenance->LT Protocol Version)

This window displays the date and the revision of the Local Controller software. For factory use only.

Database Clear

(Maintenance ->Database Clear)

>This function is used to erase the content of the Configuration Database. Once this operation is performed the equipment is completely decommissioned and restarted.
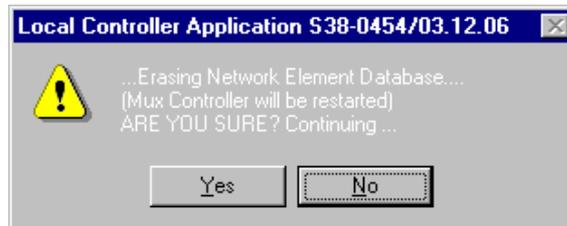
--------- This function can be performed by a Supervisor User only.

Local Controller Software Version

(Help -> About)

>To display the local controller software version:

1. Select the **Help -> About** from the main window.

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