

MSM 6.0

Installation Guide

MINI-LINK™

MSM 6.0

Installation Guide

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MSM 6.0

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1 Introduction

This guide contains information to help you install and start this version of MINI-LINK Service Manager (MSM). You will find information about system requirements, installation and uninstallation procedures, and how to configure your computer.

2 Safety Instructions

2.1 Introduction

This section describes the system used for presenting safety information.

Note: *Reduce the risk of accidents by studying all the instructions carefully before you start working. Should questions arise regarding the safety instructions, contact your supervisor or your local Ericsson representative.*

The relevant manual (including this safety information) and specific instructions supplied by Ericsson must be followed in any work performed on Ericsson products or systems. Sufficient knowledge in English or in any other language, in which the manuals or instructions are available, is necessary to perform the tasks in the manual in a correct and safe way.

The safety information in the relevant manuals presupposes that any person performing work on Ericsson products or systems has the education, training and competence required to perform the task correctly. For certain tasks additional or special training might be required. For more precise information on the amount and content of the general and/or special training required to work on Ericsson products or systems, please contact the local Ericsson company.

Ericsson does not take any responsibility for either personal injury or damage to tangible property that is caused by work performed, on Ericsson products and systems, in conflict with the safety instructions set out in this manual.

2.2 Safety Standards

The equipment meets the requirements according to EN 60950 (IEC 950), EN 60215 (IEC 215), ANSI/UL 1950 and CAN/CSA-C22.2 No. 950-95.

2.3 Safety Requirements

The safety requirements in the following sections must be followed to avoid personal injury and damage to tangible property.

It is the responsibility of the local project manager / supervisor to make certain that local regulations and the safety instructions in this manual are known and followed.

2.3.1 Service Personnel

Installation and service must be carried out by authorized personnel having the appropriate technical training and experience necessary to be cognizant of hazards during installation and service, and of measures to minimize any danger to themselves or any other person.

2.3.2 Access to Equipment

Access to equipment in use shall be restricted to authorized personnel.

2.3.3 Safety Regulations

Use local safety regulations where these are mandatory. The safety instructions in this manual shall be used as a supplement to the local regulations.

In case of conflict between the safety instructions in this manual and the local safety regulations, the local safety regulations shall prevail if these are mandatory. If the local regulations are not mandatory the safety instructions in this manual shall prevail.

2.3.4 Installation Hardware

Do not use any installation components (for example screws and nuts) other than what is enclosed with the equipment or recommended by Ericsson.

2.3.5 Installation Procedures and Tools

The installation procedures in this manual must be followed. Make sure that:

- working instructions are followed
- recommended tools are used
- adequate safety devices are used
- the risk of falling and falling objects is known

As a guide to identifying potentially hazardous installation steps, safety symbols according to Section 2.4 on page 5 are used throughout the manual.

2.4 Safety Symbols and Definitions

This section shows the system used for presenting safety information.

2.4.1 Danger, Warning and Caution

The following three levels, shown in order of urgency, are used.



Danger: *Danger means that an accident may occur if the safety precautions are neglected. This type of accident is likely to be fatal.*



Warning: *Warning means that an accident may occur if the safety precautions are neglected. This type of accident may be fatal or can cause serious injury.*



Caution: *Caution means that an accident may occur if the safety precautions are neglected. This type of accident may cause minor injury or damage to tangible property.*

2.4.2 Notes

Note: *Notes are used to call to the attention of the reader key points that might otherwise be overlooked.*

2.4.3 Electrostatic Discharge



Figure 1 ESD symbol

The Electrostatic Discharge (ESD) symbol indicates when external ESD protection must be used to avoid possible damage to the equipment.

2.5 Hazards

2.5.1 Hoisting



Warning: *Falling objects can cause accidents.*

- Use tested and approved hoisting devices only. Trained personnel must operate the hoisting device.
- Always check that all parts of the hoisting device are intact.
- Make sure that all hoisting devices are properly stabilized and attached to fixed objects, such as walls or buildings, before hoisting.
- Always hoist the equipment in the specified hoisting points.
- Never walk under hoisted loads.
- Follow local regulations for safety clothing and safety equipment for hoisting or moving goods.

2.5.2 Fire



Warning: *Fire may spread to neighboring rooms. When working on a site you may have to open cable ducts, channels or access holes, thereby interfering with the fire sectioning of the building.*

- Close cable ducts and fire doors as soon as possible.
- After completing the work, seal the cable ducts according to the regulations for the building.
- Minimize the amount of inflammable materials.
- Avoid storing empty packaging material on the site.
- Use a powder or carbon dioxide type of fire extinguisher due to the electrical nature of the equipment on the site.

2.5.3 Working at heights



Warning: *Some working areas involve the risk of accidents caused by falling or by falling objects.*

When working at heights, for example on a mast, tower or roof, the following precautions must be taken:

- Personnel working at heights must have the appropriate training and medical certificate.
- Full body safety harness and safety helmet must be used.
- Adequate protective clothing is essential in cold weather.
- No one is allowed to be located below the area where the work is performed.

2.5.3.1 Rules and Advice for the Safe Use of Ladders

- Make sure that the ladder is undamaged and has been approved for use.
- Do not overload the ladder.

2.5.4 Microwave Radiation

The maximum microwave exposure levels around and in front of the antennas do not exceed the safety levels specified in international recommendations. Do not work directly in front of the antenna, since this will disturb or interrupt the signal.

The antenna feeder should not be touched when the antenna is in operation. The transmitter should be switched off before dismounting the equipment.

3 System Requirements

Check that you have the following required (or recommended) items before installing MSM 6.0:

- Pentium II, 233 MHz processor or faster (Pentium III, 750 MHz or faster recommended)
- One of the following operating systems:
 - Microsoft Windows 98 (FAT32)
 - Microsoft Windows NT 4.0 Service Pack 6
 - Microsoft Windows 2000 Service Pack 1 (recommended)
- Microsoft Internet Explorer 5.00.2314 or later
- VGA monitor (800x600)
- 64 MB RAM or more (256 MB RAM or more recommended)
- 100 MB or more free disk space
- CD-ROM drive
- One serial port
- Keyboard and mouse (or other pointing device)

Additional Requirements for Windows NT 4.0

On Windows NT 4.0, MSM requires that a network connection is configured. If your computer is not equipped with a network card, or if your network card is not configured, see Section 4.2 on page 13 for instructions.

4 Installing MSM

To install MSM:

1. Insert the MSM compact disc into the CD-ROM drive. This will automatically start the installation program.

If the installation program does not start automatically, browse the compact disk and double-click the `Setup.exe` file.

Note: *The installation program will quit, without installing MSM, if any of the following applications are already installed on the computer:*

- *Netman Server*
- *Netman Demo*
- *MSM Demo*

2. Follow the instructions on the screen.

Note: *The installation program will install Microsoft SQL Server 2000 Desktop Engine. If the computer has SQL Server 7.0, SQL Server 2000, or MSDE 1.0 installed, they must be uninstalled.*

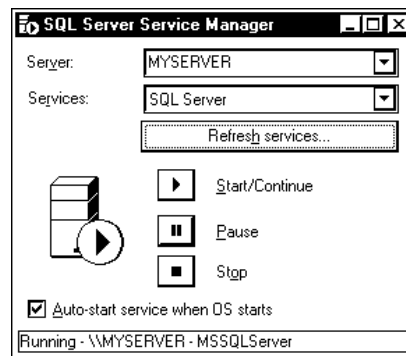
3. Finish the installation for your operating system:

To	Then
Finish the installation on Windows 98	Follow the instructions in Section 4.1 on page 12
Finish the installation on Windows NT 4.0	Follow the instructions in Section 4.2 on page 13
Finish the installation on Windows 2000	Follow the instructions in Section 4.3 on page 18

4.1 Finishing the Installation on Windows 98

To make MSDE start automatically every time you start Windows 98:

1. On the **Start** menu, point to **Programs** → **Startup** and then click **Service Manager**.
2. In the **SQL Server Service Manager** dialog box, select the **Auto-start service when OS starts** check box.



3. Click the **Close** button .

4.2 Finishing the Installation on Windows NT 4.0

MSDE is dependent on network functionality—it needs to use named-pipe/mailslot functionality. This usually requires that the computer is equipped with a network card. If you do not have a network card (or if your network card is not configured), then follow the instructions in the following procedures.

If	Then
You do not have a network card	Add the Loopback Adapter as described in Section 4.2.1 on page 13
You have a network card that is not configured	Configure your network card as described in Section 4.2.2 on page 15

4.2.1 Adding the Loopback Adapter

Note: *The following only applies if you do not have a network card. See Section 4.2.2 on page 15 if you have a network card that is not configured.*

Note: *You will need the Windows NT 4.0 installation CD.*

To add the Loopback Adapter:

1. Insert the Windows NT 4.0 installation CD in the CD-ROM drive.
2. Close the Windows NT 4.0 installation screen.
3. On the desktop, right-click **Network Neighborhood**.
4. On the shortcut menu, click **Properties**.
5. In the dialog box, asking you if you want to install Windows NT Networking files, click **Yes**.
6. In the **Network Setup Wizard** dialog box, select the **Wired to Network** option.
7. Click **Next**.
8. Click **Select from List**.
9. In the **Network Adapter** list, select **MS Loopback Adapter**.
10. Click **OK**.
11. Click **Next**.

To add the TCP/IP protocol:

12. In the **Network Protocols** dialog box, select the **TCP/IP Protocol** option.
13. In the **Network Services** dialog box, make sure all services are selected, then click **Next**.
14. Click **Next**.
15. The installation program will copy files from the `i386` folder on the CD. Specify the CD-ROM drive where you inserted the Windows NT installation CD (for example `D:\i386`), then click **Continue**.
16. Make sure that the **Frame Type** is `802.3`, then click **Continue**.
17. In the dialog box, asking you if you want to use a DHCP Server, click **No**.
18. In the **IP Address** box, type `100.100.100.1`.
19. In the **Subnet Mask** box, type `255.255.255.0`.
20. Make sure the **Default Gateway** box is empty.
21. Click **Apply**, then click **OK**.
22. Click **Next** two times to start the network.
23. Make this computer a member of the **Workgroup**.
24. Click **Next**, then click **Finish**.
25. Restart your computer.

Note: *When you have restarted your computer, the **Service Control Manager** dialog box may appear, informing you that at least one service or driver failed. This can be due to that the Server service failed to start, in which case you will need to continue the installation as described in Section 4.2.3 on page 16.*

4.2.2 Configuring the Network Card

Note: *The following only applies if you have a network card that is not configured. See Section 4.2.1 on page 13 if you do not have a network card.*

Note: *You will need the Windows NT 4.0 installation CD.*

To configure your network card:

1. Insert the Windows NT 4.0 installation CD in the CD-ROM drive.
2. Close the Windows NT 4.0 installation screen.
3. On the desktop, right-click **Network Neighborhood**.
4. On the shortcut menu, click **Properties**.
5. In the dialog box, asking you if you want to install Windows NT Networking files, click **Yes**.
6. In the **Network Setup Wizard** dialog box, select the **Wired to Network** option.
7. Click **Next**.
8. Click **Select from List**.
9. Do one of the following:

If	Then
You have a disk with software provided by the manufacturer of your network card	Click Have Disk , insert the disk, and click OK .
You do not have a disk	Select your network card from the Network Adapter list

Note: *If you do not know what type of network card you have, or if you cannot find it in the list, please contact your system administrator.*

10. Click **OK**.
11. Click **Next**.

To add the TCP/IP protocol:

12. In the **Network Protocols** dialog box, select the **TCP/IP Protocol** option.
13. In the **Network Services** dialog box, make sure all services are selected, then click **Next**.

14. Click **Next**.
15. The installation program will copy files from the `i386` folder on the CD. Specify the CD-ROM drive where you inserted the Windows NT installation CD (for example `D:\i386`), then click **Continue**.
16. In the dialog box, asking you if you want to use a DHCP Server, click **No**.
17. In the **IP Address** box, type the IP address of your computer.

Note: *If you do not know the IP address of your computer, please contact your system administrator.*

18. In the **Subnet Mask** box, type `255.255.255.0`.
19. Make sure the **Default Gateway** box is empty.
20. Click **Apply**, then click **OK**.
21. Click **Next** two times to start the network.
22. Make this computer a member of the **Workgroup**.
23. Click **Next**, then click **Finish**.
24. Restart your computer.

Note: *When you have restarted your computer, the **Service Control Manager** dialog box may appear, informing you that at least one service or driver failed. This can be due to that the Server service failed to start, in which case you will need to continue the installation as described in Section 4.2.3 on page 16.*

4.2.3 Starting the Server Service

To start the Server service:

1. On the **Start** menu, click **Settings** and then **Control Panel**.
2. Double-click **Services**.
3. Check if the **Server** service is started.
4. If the service is started, the installation is complete. If not, select the **Server** service and click **Start**.

Problems when Starting the Server Service

If you cannot start the Server service, (for example, you might get the following error message: Not enough server storage is available to process this command) then you need to reinstall

your Windows NT 4.0 Service Pack 6. This needs to be done to synchronize your Windows NT 4.0 networking files.

If you attempt to install the standard-encryption version of Windows NT 4.0 Service Pack 6a on a Windows NT 4.0-based computer that already has Microsoft Internet Explorer (5.1 or 5.5) High Encryption Pack (Cipher Strength: 128-bit) installed, you may receive the following error message:

You have chosen to install a version of the Service Pack with Standard Encryption onto a system with High Encryption. This is not supported.

To successfully install this version of the Service Pack, you must install the High Encryption version. Press Help for more information about obtaining the High Encryption Version of this Service Pack. Service Pack Setup will now exit.

If you get this message, click **OK** to quit the Service Pack installation program.

This happens because the `Schannel.dll` file that is installed by Internet Explorer High Encryption Pack cannot be overwritten by the service pack installation program.

Installing the Service Pack on Systems with High Encryption

To install the Service Pack on a system with High Encryption:

1. Find the `Schannel.dll` file on your system (usually located in the `C:\Winnt\System32` folder).

Note: *If you cannot see any .dll files on your computer, do this: Open Windows NT Explorer, click **Options** on the **View** menu, and select the **Show all files** option on the **View** tab.*

2. Rename the `Schannel.dll` file to `Schannel_old.dll`.
3. Copy the `Schannel.dll` file from the `Msde` folder on the MSM installation CD to the location of your old file (usually `C:\Winnt\System32`).
4. Reinstall Service Pack 6a.

4.3 Finishing the Installation on Windows 2000

Note: *You will need the Windows 2000 installation CD.*

You do not need to install the Loopback Adapter; you only need to make sure that the Server service is started.

If the Server service is not installed on the PC, you have to install *File and Printer Sharing for Microsoft Networks* from the Network setup.

To install File and Printer Sharing for Microsoft Networks:

1. Right-click **My Network Places** on your desktop, and click **Properties** on the shortcut menu.
2. Right click your **Local Area Connection**, and click **Properties** on the shortcut menu.
3. If **File and Printer Sharing for Microsoft Networks** is not listed, then click **Install**.
4. In the **Select Network Component Type** dialog box, add the **Service** and the **Client** components.
5. Follow the instructions on the screen.

5 Starting MSM

To connect the PC to the equipment and start MSM:

- 1. Connect the PC to the equipment.

You connect the PC to different ports on the equipment, depending on what type of equipment it is. See Table 1 on page 19 for more information on where to connect the PC.

Table 1 Connection Points on the Equipment

Equipment	Connection Point
MINI-LINK E	Connect the PC to the O&M port on the MMU. See Figure 2 on page 19.
MINI-LINK E Micro	Connect the PC to either: <ul style="list-style-type: none">• The ALIGNMENT/O&M port on the radio• The RCB See the <i>MINI-LINK E Micro, Installation Manual</i> for details.
MINI-LINK C and MkII	Connect the PC to the TERM port. See Figure 3 on page 20.

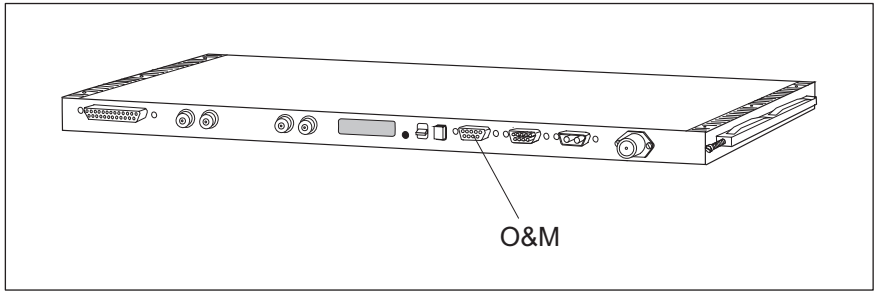


Figure 2 The O&M Port on MINI-LINK E

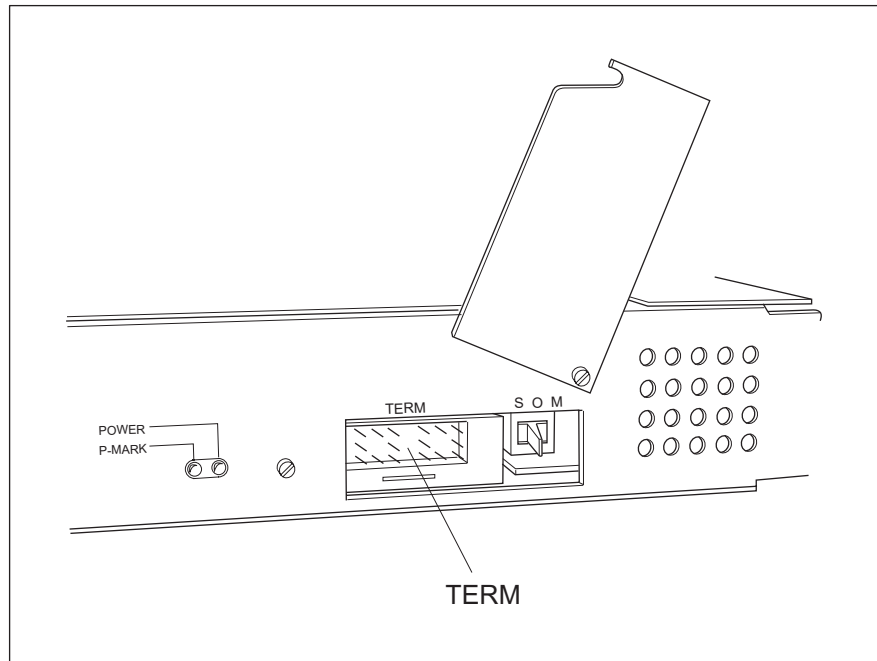


Figure 3 The TERM Port on MINI-LINK C and MkII

2. Start your PC.
3. Start MSM. On the **Start** menu, click **Programs** → **MINI-LINK Service Manager 6.0** → **MINI-LINK Service Manager 6.0**.

For information on how to log in and set up the equipment, see the online Help that comes with MSM.

6 Uninstalling MSM

To uninstall MSM:

1. On the **Start** menu, click **Settings** and then **Control Panel**.
2. Double-click **Add/Remove Programs**.
3. Click the **Install/Uninstall** tab.
4. From the list of programs that you can remove, select **MINI-LINK Service Manager 6.0**.
5. Click **Add/Remove**.
6. At the prompt, click **Yes** to confirm that you want to remove the MINI-LINK Service Manager 6.0 program.

The uninstall program removes the files, folders, and registry entries that were added at installation. Any files added to the MSM folders after installation (such as Network List files) will have to be removed manually.

7. When the files are removed, the uninstall program indicates that the process is complete. Click **OK**.

MINI-LINK E Failure Report

Date of report: _____

Date of failure: _____

Customer

--

After repair return to:

Goods adress	Invoice adress
--------------	----------------

Failure report

Unit name	Ordering code	Serial No	H/W Revision state
Configuration (1+0, 1+1 etc).			S/W Revision state

MECHANICAL DAMAGE

☐

DC FAILURE

☐

TRAFFIC FAILURE

☐

RF OUTPUT FAILURE

☐

RF INPUT FAILURE

☐

INTERMITTENT FAILURE

☐

NOT WORKING AT INSTALLATION

☐

UNKNOWN

☐

Detailed fault description:

Alarms noticed:

Location of faulty unit

Site name	
Name of opposite site	
Transmit frequency (MHz)/Channel	Traffic type (Mbit/s)
Start of operation, date	Latest previous failure on the same unit, date

Name: _____

Telephone No: _____

E-mail: _____

4440

Figure 4 MINI-LINK Failure Report

Glossary

CD

Compact Disc

CD-ROM

Compact Disc Read-Only Memory

FAT

File Allocation Table

IP

Internet Protocol

MB

Megabyte

MHz

Megahertz

MS

Microsoft

MSDE

Microsoft SQL Server Desktop Engine

MSM

MINI-LINK Service Manager

O&M

Operation & Maintenance

OS

Operating System

PC

Personal Computer

RAM

Random Access Memory

SQL

Structured Query Language

TCP/IP

Transmission Control Protocol/Internet Protocol

VGA

Video Graphics Adapter

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