InSite 6 RADIO SYSTEM MANAGEMENT SOFTWARE



MDS 05-3533A01, Rev. B OCTOBER 2000



Installation Notes

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Technical Assistance

Technical assistance for Microwave Data Systems products is available from our Customer Support team during normal business hours (8:00 A.M.–5:30 P.M. Eastern Time, Monday through Friday).

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1.0 Summary

To use InSite, install the software from floppy disk images or CD-ROM onto a PC (see "Software Installation" on page 6), and connect the PC to a master station's diagnostics port.

The PC/master station diagnostics connection can be made in one of four ways; Directly, via dial-up modem, over a network (TCP/IP), or via a code-operated switch. These methods are described in Section 4.0, *Connecting the PC to the Radio*.

After making the PC to radio connection, you will need to create an equipment list (instructions given in the InSite user's manual) and load it into the InSite program before you can perform diagnostics.

2.0 Installation Requirements

InSite 6 is a 32-bit program designed to run on computers equipped with Windows 95TM, Windows 98TM or Windows NTTM operating software.

Earlier versions of the program, designed for 16-bit operating systems and computer platforms, including Windows 3.1 and DOS, are available. Contact the factory for additional information.

Computer

Besides the Windows operating system, the system must include a hard drive and have adequate memory space for running and storing the program resources. Table 1 lists the minimum and preferred computer requirements.

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Table	1	Com	outer	rea	uirements
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System Item	Preferred	Minimum	
Processor	166 MHz or faster Pentium processor	75 MHz Pentium processor	
Operating System		Microsoft Windows 95, Windows 98, or Windows NT	
Memory (RAM)	64 Megabytes (MB)	32 MB	
Video	SVGA (800 x 600) high-color 16-bit display	256 colors—Some degradation in display quality will result	
Sound	Sound card desirable (for alert sounds)		
Hard Drive Space		25 MB for program operation	
CD-ROM Drive	Required. (For initial installation of the program.)		

Video Display

InSite 6 requires an SVGA (800 x 600) video system with a high-color (16 bit) display. It will function with a 256-color display, but with some degradation in display quality.

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Note: InSite is designed to work with Windows standard small fonts. Large fonts are not fully supported by the program. To check or change the display fonts, select **Start>>Settings>>Control Panel**, click on the **Display** icon, then select the **Appearance** tab.

Modems

A modem is required when you will be connecting your PC to the master station remotely, by telephone line or other audio circuit. While most HayesTM-compatible modems will work, the units listed below have been tested with InSite and are recommended for use with the program:

- Hayes[®] Accura 14.4 kbps modem
- Cardinal ConnectaTM 56 kbps modem
- US Robotics[®] Courier HST 14.4 kbps modem
- Practical Peripherals® 14.4 kbps modem (PM14400FXSA)
- Zoom[®] AMX 2400 bps modem
- IBM ThinkPad internal modem
- Xircom PCMCIA modem
- Code-Operated Switches-Black Box COS-2, COS-4, COS-8

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Radio Equipment

Radios used with InSite software must be MDS (or Adaptive Broadband) brand and be properly configured for diagnostics. InSite 6 supports only newer DSP-based products that have network-wide diagnostics capability. For older MDS radio products (DTMF-based), use InSite 5, which is also provided on the program CD.

Below are the general requirements for both DTMF and network-wide diagnostics-capable radios. It is often possible to add diagnostics to a radio that was not originally shipped with diagnostics capability. For more information, contact the factory.

InSite 6-compatible radios:

• Network-wide diagnostics-compatible master stations, (MDS 9790 & MDS 4790) remote radios (MDS 4710A, 9710A, 2710) and spread spectrum radios (MDS 9810, 24810). Network-wide diagnostics is an option for these radios, and may or may not have been purchased for a particular radio. Use the OPT! command from a terminal window, or display the main screen using Radio Configuration Software (version 2.2 or greater), to see whether a diagnostics option has been included with the radio ("DIAGNOSTICS: ON", as shown in following example). See the radio's Installation and Operation Guide for instructions.

Example output of **OPT!** command:

Diagnostics:ON

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InSite 5-compatible radios:

- **DTMF-compatible master stations** (MDS 2100 & MDS 4100). A master station radio equipped for diagnostics will have an RS-232 connector labeled DIAGNOSTICS on the rear panel. (There may be two such connectors on some radios.) Also, the model/serial number label affixed to the radio may indicate whether or not the unit was not shipped ready for remote diagnostics. Consult the radio's Installation and Operation Guide for details.
- **DTMF-compatible remote radios** (MDS 2300 & MDS 4300 or MDS 960 or MDS 460). The model/serial number label on a remote radio can be examined to determine the radio's diagnostics capability. See the radio's Installation and Operation Guide for details.

With MDS 2300/4300 as well as MDS 1000 Series radios, diagnostics capability can be confirmed by connecting a hand-held terminal to the radio's INTERFACE connector and issuing the **STAT** command. Consult the radio's Installation and Operation Guide for details.



3.0 Software Installation

InSite can be installed from floppy disk image files downloaded from our web site (www.microwavedata.com), or from CD-ROM. You will be installing:

- A file called **Setup.exe**, which launches the InSite installer
- InSite software files
- InSite on-line help file, insite.hlp
- InSite Radio System Management Software manual, 2692.pdf
- Network-wide Diagnostics Handbook, 3467.pdf
- Adobe AcrobatTM Reader (for viewing or printing the manual)

From Downloaded Disk Images

Downloaded InSite files consist of the file **Setup.exe** and several floppy disk images named **Data.001**, **Data.002**, etc. To install InSite from these files, locate the **Setup.exe** file in your download directory and double-click on it to begin installation, which is described in π *From CD-ROM* below.

If you need to install InSite on other PCs that are not connected through a network, you can copy each floppy disk image file to a single floppy disk and install from those disks. (Be sure to place the **Setup.exe** file on the same disk as **Data.001**.) Double-click on **Setup.exe** to launch the installer, and you will be prompted to insert each disk at the proper time.

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Note: When installing InSite 5 or InSite 6 for the first time, you must also install the Runtime Engine and Report Generator that are included on their own directories on the program disk(s). If installing InSite from the CD, this is done automatically.

From CD-ROM

To install InSite from a factory-supplied CD-ROM:

- 1. Insert the CD-ROM disk in the CD-ROM drive.
- 2. When the first InSite screen appears, click on INSTALL SOFT-WARE.
- 3. At the next screen click Install MDS SCADA Diagnostics (or other desired package).
- 4. At the first InSite Setup screen (Figure 1), click **Install InSite 6**. This presents the destination screen (not shown here) where you can specify the directory where InSite will be installed.



InSite 6	1
Install InSite 6	
Install InSite 5	
Install Data LinkWatcher	Please choose an application to install.
Install Radio Configuration	Back

Figure 1. InSite Setup Screen

5. The default directory is C:\INSITE. If this location is acceptable, click **Finish**. If not, choose **Change** and follow the instructions to change the name.

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NOTE: When installing InSite on a Windows NT computer, you must transfer the on-line help file (insite.hlp) and Installation and Operation Guide file (*xxxx*.PDF) to a Windows directory. This directory may need to be created in Windows NT before it can be transferred.

6. Follow the remaining prompts and dialog boxes to finish the installation. When the installation is complete, the InSite program icon appears on the screen.

4.0 Connecting the PC to the Radio

The PC on which InSite is installed must be connected to a master station to request and receive diagnostic data. If the PC and radio are nearby, this can be done directly, using a standard RS-232 cable. When the PC and radio are widely separated, this can be done indirectly, using modems at each end of the link, or using a TCP/IP connection over a network or the Internet.



Direct Connection Method

In the simplest arrangement, the diagnostics computer is located in the same room as the master station, or is within 50 feet/15 meters. The computer's RS-232 port can then be directly connected to the DIAGNOSTICS connector at the rear panel of the master station with an RS-232 cable. This arrangement is shown in Figure 2. If a DTE/DCE switch is present on the rear panel of the master station, it is normally set to DCE for this type of arrangement.

Depending on the master station model, the DIAGNOSTICS port may be a 9-pin, 15-pin or 25-pin DB-style connector.



Figure 2. Basic Direct Cabling Connection







Indirect Connection Method—Modem

If the diagnostics computer is to be located a long distance from the master station, a modem connection may be required. In this arrangement, an audio circuit (telephone line, 2-wire/4-wire twisted pair, or microwave link) is established between the computer and the master station, and a modem is installed at each end of the link (Figure 3). If a DTE/DCE switch is present on the rear panel of the master station, it must be set to DTE when a modem is used.





Indirect Connection Method—Internet (TCP/IP) Access

Network-wide diagnostics information can be accessed over a network or the Internet using a Remote Access Server (RAS), as shown in Figure 4. The RAS will serve as a media converter from a serial port (RS-232-type) to an Ethernet multi-drop interface. The RAS will also convert the serial protocol to a TCP/IP protocol suitable for Internet connectivity. Contact the factory for additional information on configuring the Remote Access Server.

Code-Operated Switch Method

A code-operated switch (COS) connection is required at a site with co-located Network-wide capable Master stations. This device avoids addressing problems that occur between one or more Master radios using a single line back to the central site for diagnostics. The COS may also be used in combination with a Dial-up modem. InSite supports COS units such as Black Box COS-2, COS-4, and COS-8. Refer to the InSite user guide for COS setup information.

Note for Using InSite 5 with older (DTMF) radios

MDS 2100 and 4100 master stations shipped from the factory are normally set for 1200 bps diagnostics communication speed. The speed can be changed if necessary; see the radio's Installation and Instruction Guide for details.

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Figure 4. Network-wide Diagnostics Served via the Internet



5.0 Software Start-up

To start InSite, select it from Windows' **Start >> Programs** menu. After the program loads, you will see the Main Menu screen (Figure 5).



Figure 5. Main Menu Screen

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You will need to set up an equipment list before performing diagnostics. An equipment list is a database of information on radios in a system; it configures polling options for diagnostics and sets up the NetworkView screens. Until you create a list, InSite loads the Default Equipment List, **default.equ**, which will provide basic functionality for most systems. See the InSite Installation and Operation Guide. Several sample equipment lists are installed on your hard drive as part of the InSite installation process.

To display the Guide, select **Help>>On-line Help**. On the displayed Contents page, locate and click on the button labeled "InSite 5 Electronic Manual." Or locate the file **2692.pdf** in the Windows directory and double-click on it. In either case, the Guide is displayed using Adobe Acrobat Reader. The Guide's table of contents and index consist of hot links that you can click on to display a particular topic; cross-references within the Guide are also hot links.

6.0 Password Access

You may also want to enable passwords. When passwords are enabled, InSite displays a graphical user interface that makes it easy for inexperienced users to perform diagnostics, but limits access to the system setup and equipment list screens. Experienced users, however, can navigate directly to the screen they want, create or edit equipment lists, and change system settings. See the InSite Installation and Operation Guide for more information on system settings and passwords.



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