Irma for the Mainframe
Getting Started Guide

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About This Guide

Who should read this guide?

This guide is designed for anyone who needs to install Irma™ for the Mainframe software. The guide will help you understand the Irma features, the connectivity types it offers, and the tasks needed for the installation.

You'll find it easier to understand this guide and use Irma if you are familiar with Windows® and with the type of connectivity you will be using.

How to use this guide

The *Irma for the Mainframe Getting Started Guide* explains how to install Irma for the Mainframe and start a session, and how to use online help. Note that most of the information that you need to configure, customize, and use Irma is contained in the online help.

The *Irma for the Mainframe Getting Started Guide* contains five chapters and one Appendix. This guide also contains a list of common abbreviations, and an index.

Chapter 1, "This Is Irma," describes Irma for the Mainframe and explains its features. It also describes the connectivity options you can install.

Chapter 2, "Before You Install Irma," explains everything you need to do prior to installing Irma. Be sure to read this chapter. It contains important information you need to know before running the Setup program.

Chapter 3, "Installing Irma," provides instructions for installing Irma and running the Setup program.

Chapter 4, "Using Online Help," explains how to use the online help system. You should be familiar with the online help because it contains the information you need to configure Irma.

Chapter 5, "Finishing Up the Task List," describes the steps for completing the installation and starting your first communications session.

Appendix A, "Troubleshooting," explains how to contact Attachmate® Customer Support if you have any problems.

You'll find a "Task List" on the second page of every chapter. The lists show you the tasks necessary to install, configure, and use Irma. The current task is highlighted, allowing you to track your progress and see what lies ahead.

Documentation conventions

The following documentation conventions are used in this guide:

bold	In command lines, bold represents information that you should enter exactly as shown.
[ ]	In command lines, square brackets indicate an option. To include an option, type only the information inside the brackets. Do not type the brackets unless they appear in bold.
italics	Italics represent variable information. In command lines, do not enter the words themselves in the command; enter the information they represent.
ENTER	A key name, for example, ENTER, refers to a specific key on the keyboard. If you have remapped the function originally mapped to the key, substitute the new key or key combination for the original.
`monospace text`	This font identifies actual programming code.
X'*nnn*'	This represents hexadecimal digits.
Note	This signifies important additional information.

Common abbreviations

The following abbreviations are used in this guide:

APA	All points addressable
API	Application programming interface
APL	A programming language
APPC	Advanced program-to-program communications
ASCII	American Standard Code for Information Interchange
CECP	Country Extended Code Page
CICS	Customer Information Control System
CMS	Conversational Monitor System
CPI-C	Common Programming Interface for Communications
CSV	Common Service Verb
CUT	Control unit terminal
DDE	Dynamic data exchange
DFT	Distributed function terminal
DOS	Disk Operating System
EAB	Extended attribute byte
EHLLAPI	Extended High-level Language Application Programming Interface
HLLAPI	High-level Language Application Programming Interface
IEEE	Institute of Electrical and Electronics Engineers
IPX™	Internetwork Packet Exchange
LAN	Local area network
LU	Logical unit
LUA	Logical Unit Application
MB	Megabyte
MDI	Multiple document interface
NetBEUI	Network Basic I/O System Extended User Interface
NetBIOS	Network Basic Input/Output System
OCS	Open Connect System
PS	Programmed symbols
RAM	Random-access memory
RTM	Response Time Monitor
SAA™	Systems Application Architecture®
SCA	Synchronous Communications Adapter
SISL™	Standard Irma Scripting Language
SDLC	Synchronous Data Link Control
SNA	Systems Network Architecture
SPX	Sequenced packet exchange
TCP/IP	Transport Control Protocol/Internet Protocol
TSO	Time Sharing Option
WOSA	Windows Open Systems Architecture
VTAM™	Virtual Telecommunications Access Method

Summary

After reading this chapter, you should know the following:

q   What the *Getting Started Guide* contains.

q   The documentation conventions used in the guide.

q   The common abbreviations used in this guide.

In the next chapter, you'll learn more about Irma and the connectivity types it offers.

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This Is Irma

Chapter 1

Task List

1 **Learn about Irma**
2 Complete your planning
   checklist
3 Install Irma
4 Learn about online help
5 Configure the connection and
   start a communications session
6 Customize your session
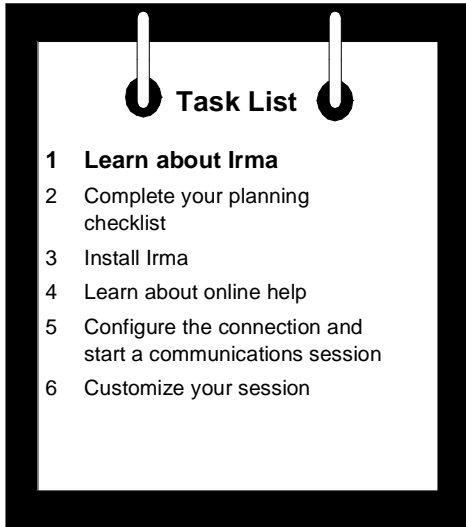
The Task List at left shows the current step in the process of installing and using Irma.

In this chapter, you will learn about the Irma features and the connectivity options you can install. You will be introduced to the Irma icons, and you'll learn about the file types that Irma uses.

You'll need about 15 minutes to read this chapter.

What is Irma?

Irma for the Mainframe (referred to as Irma) is communications software that allows a PC running Microsoft® Windows or Windows for Workgroups to communicate directly with other computers using a variety of connectivities.

Irma can connect to a single host, to multiple hosts, or to peer computers across an SNA network.

You have two choices when you install the mainframe connectivity:

- You can install any number of stand-alone and gateway connection types.

  or

- You can install one server connection type.

The mainframe connection types are described in Table 1-1.

Table 1-1.   Description of mainframe connection types

Installation choices	Connection type	Description
Stand-alone connections	Single-session (CUT)	Irma supports single-session CUT connectivity for a direct connection to an IBM® 3174/3274 control unit.
	Multisession Coax (DFT)	Irma supports multisession DFT connectivity for a direct connection to an IBM 3174/3274 control unit. Each DFT adapter can support up to five emulation sessions.
	LAN Attached (802.2)	Irma supports stand-alone, multisession 802.2 connectivity with host and peer computers across a token-ring or Ethernet LAN through the IEEE standard 802.2 data link control protocol. For standalone connectivity, you can use the following token-ring or Ethernet connections: • Connection to a 37*xx* front-end processor connected to a host • Connection to a 3174 control unit connected to a 37*xx* front-end processor and through the front-end processor to a host • Connection to a 9370 ICU connected internally to the 9370 host • Connection to a 3174-*x*L control unit or 3174 local controller directly connected through a channel to a host
	Remote (SDLC)	Irma supports direct, multisession SDLC connectivity to a 37*xx* front-end processor, through an SDLC adapter and half-duplex synchronous modems, over switched or leased lines.

Table 1-1.   Description of mainframe connection types (cont.)

Installation choices	Connection type	Description
Stand-alone connections (cont.)	X.25 Standalone	Irma supports direct, multisession X.25 connectivity to a 37*xx* front-end processor, through an X.25 adapter and half-duplex synchronous modems, over switched or leased lines.
		Note In order to install X.25 connectivity, you must order the optional Irma X.25 Connection diskette from Attachmate. For information on ordering optional software, refer to Chapter 2, "Before You Install Irma."
	TN3270 over TCP/IP	If you are a client on a TCP/IP network, you can access a TN3270 controller or gateway by using a supported TCP/IP protocol stack and a LAN adapter. No additional adapter is required for your PC. Irma supports the following TCP/IP stacks: • Winsock 1.1, including Chameleon™ from NetManage™, TCP/IP for Windows version 3.1, IBM TCP/IP for DOS 2.1, SNAP-IX • Novell® LAN Workplace® • FTP Software PC/TCP™ • Wollongong Pathway • Sun® PC-NFS™ • Microsoft LAN Manager or 3Com®
Gateway connections	ATLANTIS SNA Gateway	If you are a client on a LAN, you can access an ATLANTIS SNA Gateway by using a LAN adapter configured to use the same protocol as the gateway. No additional adapter is required for your client.
	Eicon SNA Gateway	If you are a client on a LAN, you can access an Eicon SNA Gateway by using a LAN adapter configured to use the same protocol as the gateway. No additional adapter is required for your client.

Table 1-1.   Description of mainframe connection types (cont.)

Installation choices	Connection type	Description
Gateway connections (cont.)	Attachmate IrmaLAN™ Gateway	If you are a client on a LAN, you can access an IrmaLAN Gateway (for VINES®, NetBIOS, or NetWare®) by using a LAN adapter and the appropriate protocol (VINES, NetBIOS, or IPX/SPX™). No additional adapter is required for your client.
	Attachmate Netway® 2000 Gateway	If you are a client on a LAN, you can access a Netway 2000 gateway by using a LAN adapter configured to use the same protocol as the gateway. No additional adapter is required for your client.
	Novell NetWare for SAA™ Gateway	If you are a client on a LAN and have access to a NetWare for SAA gateway, you can access the server by using the IPX/SPX or TCP/IP protocol and a LAN adapter. No additional adapter is required for the client. You can have simultaneous sessions using both IPX/SPX and TCP/IP protocols.
Server connections	Microsoft SNA Server	If you are a client on a LAN and have access to an SNA Server, you can access the server by using the NetBEUI, IPX/SPX, VINES or TCP/IP protocols and a LAN adapter. No additional adapter is required for the client.
	Attachmate Select Comm Server	If you are a client on a LAN and have access to Select Comm Server, you can access the server by using the NetBEUI and a LAN adapter. No additional adapter is required for the client.
	Hewlett-Packard® HP-UX SNAplus Server	If you are a client on a LAN and have access to an HP-UX SNAplus Server, you can access the server by using the NetBEUI, IPX/SPX, or TCP/IP protocols and a LAN adapter. No additional adapter is required for the client.
	Winsock TCP/IP	If you are a client on a LAN and have access to a SNAP-IX server, you can access the server by using the Winsock 1.1 TCP/IP protocol. No additional adapter is required for the client.

Table 1-1.   Description of mainframe connection types (cont.)

Installation choices	Connection type	Description
Server connections (cont.)	Banyan® VINES 4.11 SNA Communications Service (SCS) server	If you are a client on a LAN and have access to a SNAP-IX server, you can access the server by using the Banyan VINES protocols. No additional adapter is required for the client.

Features

Table 1-2 describes the Irma features.

Table 1-2.   Irma features

Feature	Description
Application Programming Interface (API)	The mainframe connectivity supports Advanced Program-to-Program Communication (APPC), Common Service Verbs (CSV), and Common Programming Interface Communications (CPI-C). Windows Open Systems Architecture (WOSA) APPC and CPI-C are also supported.
	Note Supported with DFT, SDLC, 802.2, and all server connection types.
Autosizing of fonts and session window	You can choose to have the fonts automatically resize within the display window, or to have the window automatically resize to accommodate the font size.
Character support	You can choose to use Country Extended Code Page (CECP), Extended Attribute Byte (EAB), and A Programming Language (APL). TrueType™ fonts (fixed pitch only) are also supported.
Diagnostics	The mainframe connectivity offers diagnostics for CUT, DFT, 802.2, SDLC, and X.25 connection types.
Dynamic Data Exchange (DDE) support	You can link Windows applications using a protocol called Dynamic Data Exchange (DDE). Using DDE, you can transfer data on a one-time basis, or establish an ongoing dialog with other applications.

Table 1-2.   Irma features (cont.)

Feature	Description
File transfer	You can perform multiple, concurrent file transfers to and from CICS, CMS, and TSO host environments using the following: • Attachmate FT/Express™ • Attachmate IrmaLink® • IBM 3270 IND$FILE • PS/CICS ***Note*** IrmaLink is not supported with Select Comm Server.
Graphics	You can use Irma Graphics software. Irma Graphics is an optional software package that can be ordered from Attachmate. Refer to "Ordering optional software" in Chapter 2, "Before You Install Irma." The mainframe connectivity supports All Points Addressable (APA) and Programmed Symbols (PS) graphics. ***Note*** Not available for CUT.
HLLAPI	You can use WinHLLAPI, EHLLAPI, and DOS HLLAPI with the mainframe connectivity.
Input devices	You can use the mouse to emulate a light pen. In addition to standard PC keyboards, the mainframe connectivity also supports the following keyboards: • Attachmate IrmaKey/3270® • Memorex Telex® • Key Tronic® • Siemens/Nixdoft 122-key • IBM 122-key keyboards
Keyboard mapping	You can change the location of the characters and functions on your keyboard using the Keyboard Editor. You can also assign scripts and keystrokes to specific keys.
LUA	The mainframe connectivity supports both LUA and WOSA LUA.
Macros	You can save keystrokes and assign them to a QuickPad™ or a keyboard key.
Microsoft Office Compatible Program support	The mainframe connectivity supports the Microsoft Office Compatible Program.
Multiple document interface (MDI)	You can view multiple windows concurrently, in either a cascaded or tiled format. You can reduce a window to an icon and close all windows simultaneously.

Table 1-2.   Irma features (cont.)

Feature	Description
NetView®	You can communicate with IBM NetView through 3270 user alerts
	Note Supported with DFT, SDLC, 802.2, and all server connection types.
NetWizard™	If you purchased a multipack version of Irma, the NetWizard software is included. You can install the NetWizard feature, which allows you to manage distributed software applications across your LAN.
Printer emulation	You can configure a 3287 printer emulation session, that supports LU1 and LU3 type printing.
	Note TN3287 printing (LU1 and LU3) is supported with OpenConnect® System (OCS) TCP/IP-SNA Gateways and MacData 6100/6200 controllers only.
Printer server capabilities	You can use the printer emulator as a print server, including font mapping.
Profiles	A profile contains the name and description of the host system. The profile also contains connection information, terminal emulation settings, and keyboard definitions. The software includes a default session profile and several profiles that have already been configured and are ready to use to connect to the host.
QuickBar	The QuickBar displays icons that initiate tasks, such as file transfers and screen captures. You can start these tasks quickly by clicking the icons. For mainframe connectivity, you can also customize your QuickBar by moving and deleting icons. You can even create your own QuickBars.
QuickDDE	You can use this tool to simplify the process of developing a DDE link between Irma and another application.
QuickExec™	You can define a set of applications to execute when a single icon is selected.
QuickHit™	QuickHit lets you use the mouse to choose characters, words, or function keys displayed by the mainframe application, and send them to the host.
QuickPad	During a communications session, you can execute commands using a QuickPad instead of your keyboard. A QuickPad is a small window you create that contains objects you click to initiate host commands. You can also assign functions to different objects on a QuickPad, such as running scripts or sending keystrokes to the host.

Table 1-2.   Irma features (cont.)

Feature	Description
QuickSAA	You can select a host menu item by using the mouse. The menu item is then entered automatically in the data field.
QuickScript™	You can create, edit, compile, and run scripts using the QuickScript editor and the SISL scripting language.
QuickSend	You can use the Windows File Manager and the drag-and-drop feature to initiate file transfers from your PC to a CICS, CMS, or TSO host environment using IND$FILE or IrmaLink.
	Note IrmaLink is not supported with Select Comm Server.
Response Time Monitor (RTM)	You can display RTM in graphical format.
	Note RTM is supported only with DFT, SDLC, 802.2, Select Comm Server, and SNA Server.
Screen capture	During a communications session, you can copy the contents of the terminal screen and save it in a file, or you can send it to a printer.
Screen customization	You can customize your screen display, such as the character fonts, colors, and audible signals, by modifying the terminal emulation settings.
Scripts	You can record and save a series of keystrokes to perform a task. You can also create, compile, and run scripts using the Script Editor and the SISL language.
Shared access	You can choose to install Irma with shared access. This means that one copy of the Irma program files is installed to a server, and multiple users can run Irma at the same time. This type of installation also requires you to run a Setup program at each workstation that installs the Irma program group, and installs some files into a private directory for that workstation.
Terminal emulation	You can use up to five concurrent mainframe sessions, using models 2 through 5. You can choose to use "any" model type so that your display window accommodates any model that the host application is using. You can even conduct display emulation through the serial port on your PC.
Text files	You can cut, copy, and paste text and tables between the host and the PC.
Uploading ASCII text files	During a communications session, you can send an ASCII text file to the host computer.

About the Irma applications

Based on the connectivity type you select during the Irma installation, the associated applications are installed. Table 1-3 describes the Irma applications.

Table 1-3.   Irma applications

Application	Description
Irma Mainframe Sessions	Use this application to start, configure, use, and customize mainframe display and printer sessions. You can capture emulation screens to the disk or the printer, edit screen contents, and run HLLAPI programs. Several options are found under Mainframe Sessions menus that were formerly separate program group icons, as follows: • To configure a mainframe session, choose Session Configuration from the Settings menu. • To start, use, and customize mainframe display sessions, choose New Display from the File menu. • To start, use, and customize mainframe printer sessions, choose New Printer from the File menu. • To select or edit a keyboard, choose Select Keyboard or Edit Keyboard from the Settings menu. • To work with QuickScript, choose Run, Edit, or Learn Script from the Quicktools menu. • To edit a QuickExec file, choose Edit QuickExec from the Quicktools menu. • To access diagnostic information, choose Diagnostics from the Help menu.
Irma APPC and LUA Configuration	Use this application to configure SNA (LU 6.2) sessions that can be used by APPC transaction programs or CPI-C applications. For information about writing APPC transaction programs, see the Attachmate *APPC Programmer's Guide* provided in the optional Attachmate Distributed Applications Developer's Tool Kit. For information on ordering this tool kit, see "Developing your own applications" in Chapter 5, "Finishing Up the Task List." ***Note*** APPC support is not available for CUT, TN3270, IrmaLAN NetBIOS, IrmaLAN IPX/SPX, IrmaLAN VINES, Eicon SNA Gateway, ATLANTIS SNA Gateway, and Netway 2000 Gateway.

Table 1-3. **Irma applications** (cont.)

Application	Description
Irma HLLAPI Redirector	Use this application to start the DOS HLLAPI redirector feature.
Irma QuickExec: START	Use this application in conjunction with the QuickExec feature. After you have set up your QuickExec profile that executes a set of applications, you assign that profile name to this icon. Clicking this icon then starts all the associated applications.
Irma Setup	After you install Irma, use this application to add connection types, install an option disk, change the program group, change the keyboard driver, or change the host language. This application is installed automatically.
Irma Read-This	Read this file first to learn important, additional information about the product. This icon is added automatically to the program group.

About the file types used by Irma

The Mainframe Sessions application uses several file types to store your configuration and customization information. Table 1-4 presents the file types, their extensions, and a description of each file type.

Table 1-4.   File types used by Mainframe Sessions

File type	File extension	Description
Style file	.CCF	Contains session configuration information. Only one style file can be in use at one time. Settings contained in this file apply to all active mainframe sessions.
		You can invoke a customized style file by adding the style filename to the mainframe session command as follows:
		EMU /*style_file***.CCF**
Display profile	.EMU	Contains configuration information about the display window size, fonts, and colors. It also allows the session to be activated automatically. There is one profile per mainframe display session.
		To invoke a customized profile, add the profile name to the mainframe display command as follows:
		EMU.EXE *profile***.EMU**
File transfer profile	.FT	Contains configuration information about file transfers including type of file, direction of the transfer, and the host filename type mode. You can create multiple file-transfer profiles, but you can invoke only one profile at a time.
SISL source file	.ISL	Contains stored keystrokes, along with SISL commands. This file can be edited by the QuickScript Editor or any text editor.
SISL compiled file	.ISX	Contains the compiled output of a SISL source file. This is an executable file.
Keyboard profile	.KBD	Contains information about the keyboard mapping. You can use only one keyboard profile at a time.
Log files	.LOG	Contains audit information when you use the diagnostics feature.

Table 1-4. **File types used by Mainframe Sessions** (cont.)

File type	File extension	Description
Printer profile	.PRT	Contains configuration information about mainframe printer emulation. There is one profile per mainframe printer session.
QuickPad profile	.QBD	Contains the definition for a QuickPad, including the size and key layout. You can use only one QuickPad at a time.
QuickExec profile	.QEP	Contains configuration information that allows you to start multiple applications by clicking a single icon.
Screen capture	.SCR	If you perform a screen capture and save that screen capture to a disk file, the extension used is .SCR.
Trace files	.TRC	Contains tracing information. You initiate traces by using the diagnostics feature.

Summary

In this chapter, you learned about the following:

q What Irma is, the connectivity types supported, and the features provided.

q The applications that are included.

q The file types that Irma uses.

Now turn to the next chapter to prepare for installing Irma. In Chapter 2, "Before You Install Irma," you will complete planning checklists that make installing Irma easier.

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Before You Install Irma

Chapter 2

Task List

1 4 Learn about Irma

2 Complete your planning checklist

3 Install Irma

4 Learn about online help

5 Configure the connection and start a communications session

6 Customize your session

Resist the temptation to run the Setup program before you read this chapter!

This chapter describes the Irma package contents, and explains how to order optional software. This chapter lists all the hardware and software requirements for each connection type. If you have a previous Attachmate product installed, you'll learn how to upgrade to Irma for the Mainframe.

You'll need about 15 minutes to read this section and complete the checklists.

Checking your package contents

Your Irma software package should contain one CD-ROM disk. Included on the CD is the Irma software with online help, and the *Getting Started Guide* in electronic format. Table 2-1 shows the directory structure on the Irma CD.

Table 2-1.   Directory structure on the Irma CD

Directories	Description
IWW303	System and program files.
DISKS	System and program files.
DOCS	Online help files and the *Getting Started Guide* in electronic format.

If you want to create a set of Irma program diskettes from the CD, instructions for doing this appear in Chapter 3, "Installing Irma." The steps for installing Irma from diskettes are also included.

Ordering optional software

Attachmate offers optional software packages that can enhance the Irma feature set, as described in Table 2-2.

Table 2-2.   Optional Irma software

Disk label	Description
X.25 Connection Disk	Optional. This diskette provides X.25 support for mainframe connectivity.
Irma Graphics for Windows	The Irma Graphics package contains the Irma Graphics software and a user's guide, and can be installed if you want APA graphics capabilities.

To order any of these products, call Attachmate at (800) 426-6283.

Hardware requirements

Irma requires the following hardware:

- Any PC, monitor, mouse, and keyboard supported by Windows 3.1 or Windows for Workgroups 3.11.

- A minimum of 4 MB of system RAM (6 MB is recommended).

- A CD-ROM disk drive.

- A printer supported by Windows 3.1 (optional).

- A minimum of free hard-disk space as described in Table 2-3.

Table 2-3.   Hard-disk space requirements

Installation choice	Connection type	Megabytes
Stand-alone	CUT	6.7
	DFT	8.3
	802.2	8.0
	SDLC	7.9
	X.25	8.0
	TN3270	7.0

Table 2-3. Hard-disk space requirements (cont.)

Installation choice	Connection type	Megabytes
Gateway	ATLANTIS SNA Gateway	7.2
	Eicon SNA Gateway	7.0
	IrmaLAN IPX/SPX	7.2
	IrmaLAN NetBIOS	7.2
	IrmaLAN for VINES	8.1
	NetWare for SAA	7.5
Server	HP-UX SNAplus Server	6.5
	Select Comm Server	6.1
	SNA Server for Windows NT™	8.7
	Winsock TCP/IP client	7.0
All stand-alone and gateway connections (except X.25)		10

You can install more than one stand-alone and gateway connection type, or you can install one server connection type.

Note You can install multiple standalone connection types; however, you can activate only one connection type at a time.

- A minimum of 1 MB of additional system RAM if you are using Irma Graphics for Windows. Additional RAM will improve performance if you are displaying multiple complex graphics.

- One of the following adapters:

  - If you install Irma with a gateway or server connection type, you need to install a LAN adapter supported by the LAN operating system.

  - If you install Irma with a stand-alone connection type, you need to install at least one communications adapter.

Table 2-4 lists the communications adapters supported by Irma.

Table 2-4.   Communications adapters supported by Irma

Connection	Supported adapters
CUT and DFT	Attachmate Irma 2, Irma 3®, Irma 3 Convertible, and Irma 3270 Pocket adapters
	IBM 3278/79 Emulation Adapter (including Rev B), 3278/9 Advanced Emulation Adapter (including Rev B), 3270 Connection Adapter, Model A (including Rev B) and Model B (including Rev B)
	Attachmate Advanced 3270 Adapter and Advanced 3270 Adapter/2
SDLC	Attachmate Synchronous Communications Adapter (SCA)
	IBM SDLC Adapter, Multiprotocol Communications Adapter/A
	Pathways SDLC Adapter
802.2	Microdyne IRMAtrac™ Convertible Token-Ring Adapter
	IBM Token-Ring Adapter, Token-Ring Adapter II, Token-Ring Adapter/A, Token-Ring 16/4 Adapter, Token-Ring 16/4 Adapter/A
	Proteon 4, 16, or 4/16 Mbps Token-Ring Adapter
	Madge® 4, 16, or 4/16 Mbps Token-Ring Adapter
	Any Ethernet adapter supported by the IBM LAN Support Program
TN3270	Any token-ring or Ethernet adapter that is supported by an FTP (version 2.05pl4 or newer), Novell LAN WorkPlace, Wollongong Pathway Access, Winsock 1.1 compatible stacks, Sun PC-NFS, or Microsoft LAN Manager, 3Com.

Table 2-5 lists the maximum number of adapters supported.

Table 2-5.   Maximum number of adapters and connections supported by Irma

Connection type	Maximum number of adapters	Connections per adapter
DFT	1	1
Token-ring	1	4
SDLC	1	4*
X.25	1	4

* You can configure four connections per link service for SDLC only when configuring multipoint connections where Irma is the primary station for APPC only.

Software requirements

Before you install Irma, you must install the following on your system:

- One of the following:

    - Microsoft Windows version 3.1 or newer.

      or

    - Windows for Workgroups 3.11.

- If you want to use FT/Express to transfer files, your host application (available from Attachmate) must be version 2.0 or newer.

- If you want to use LU 6.2, you must have VTAM version 3.2, with NCP version 5.2 (3745 systems) or NCP version 4.3 (3725 systems).

- If you want to install Irma with a server connection, TN3270, or gateway connections, you also need to install the software as shown in Table 2-6.

Table 2-6.   Software requirements for mainframe connectivity

Connection type	Irma PC	Gateway/server requirements
ATLANTIS SNA Gateway	For DOS and OS/2 servers: Any LAN client software that uses NetBIOS. For UNIX servers: TCP/IP.	ATLANTIS SNA Gateway, 8.00a or newer.
IrmaLAN for VINES Gateway	Banyan client software configured for NetBIOS, IPX/SPX 3.10 or newer, or VINES IP 4.1 or newer.	IrmaLAN for VINES Gateway, 3.0.7 or newer.
IrmaLAN Gateway	Any LAN client software configured for NetBIOS or NetWare IPX/SPX 3.10 or newer.	Attachmate IrmaLAN, 3.0 or newer.
Netway 2000 Gateway	NetWare IPX/SPX 3.10 or newer.	Attachmate Netway 2000 Gateway, 4.2 or newer.

Table 2-6.   Software requirements for mainframe connectivity (cont.)

Connection type	Irma PC	Gateway/server requirements
Eicon SNA Gateway	Any LAN client software configured for NetBIOS, IPX/SPX 3.10 or newer, or VINES IP. The following files, provided by Eicon: • NABIOS.EXE • NARDR.CMD (NetBIOS only) • NARDRSPX.CMD (IPX/SPX only) • ECLAN.EXE	Eicon SNA Gateway, 3.0 release 1 or newer.
Novell NetWare for SAA gateway client	NetWare 3.11 or newer. Make sure you have the following file versions: • IPX.COM 3.10 or newer. If you are installing Irma on a 486 PC, we recommend that you run the ODI driver, instead of WSGEN.EXE. • LSL.COM 3.22 or newer, or PXODI.COM 1.2 or newer, if you are running the ODI driver. • NETX.COM 3.22 for PCs using conventional memory. • EMSNETX.EXE 3.22 or newer for PCs using expanded memory. • XMSNETX.EXE 3.22 or newer for PCs using extended memory. You can also use TCP/IP protocol 1.3b or newer.	NetWare 3.x, 4.x, or newer. NetWare for SAA gateway 1.x or newer (for IPX) or 1.3B (for TCP/IP).

Table 2-6. Software requirements for mainframe connectivity (cont.)

Connection type	Irma PC	Gateway/server requirements
HP-UX SNAplus Server	LAN Manager client software 2.2 or newer, configured for TCP/IP.	Hewlett-Packard HP-UX 9.0 or newer, with HP STREAMS/UX for Series 700 and 800.
		LAN Manager for HP 9000 2.2.
		HP-UX SNAplusLink 2.0 or newer.
Microsoft SNA Server client	Windows NT 3.1 or 3.5 configured for NetBEUI, IPX/SPX, or TCP/IP protocol.	Microsoft Windows NT Workstation 3.1 or 3.5; or Microsoft Windows NT Server 3.1 or 3.5.
		Microsoft SNA Server 2.0 or 2.1.
Select Comm Server	Microsoft LAN Manager 2.1 or newer; IBM LAN Server 1.3, 2.0 or newer.	Attachmate Select Comm Server 1.2 or newer.
Winsock TCP/IP	Windows socket specification 1.1.	Any SNAP-IX compliant server software.
TN3270	One of the following TCP/IP protocol-stacks: • FTP version 2.05pl4 or newer • Novell LAN WorkPlace • Wollongong Pathway Access • Microsoft LAN Manager, or 3Com • Sun PC-NFS • Winsock 1.1 compatible stacks	One of the following: • IBM 3172, 3745, or 8234 controller with Telnet Server on the host • OpenConnect Server II • MacData 6100 • Interlink • Intel® 9770 • Any TN3270 compatible gateway

Upgrading from a previous version of an Attachmate product

If you have previously installed an Attachmate product, you do not need to remove it before installing Irma.

The Irma Setup program detects that the software exists, and uses the existing configuration information as the new default configuration.

When you run the Irma Setup program, remember the following:

- If you specify the same destination directory as the directory where the older software resides, the new files are copied over the older files.

- If you specify a different destination directory from the directory where the older software resides, the older files are not deleted by the Setup program. If you want to delete the older files, you must do so manually.

In addition, the Setup program prompts you to select which types of configuration files and profiles to save. See Chapter 1, "This Is Irma," for more information about file types.

Using existing configuration files and profiles

If you have a previous version of Irma installed, the Setup program will prompt you to select which types of configuration files and profiles to save. For more information about the file types and their extensions, see Chapter 1, "This Is Irma."

Installation checklists

These installation checklists were designed to make the installation process easier for you.

Before you install Irma, you need to do the following:

q Make sure you have the required hardware. For more information, see "Hardware requirements" on page 2-3.

q Make sure you have the correct versions of software installed. For more information, see "Software requirements" on page 2-6.

q Determine the destination drive and directory for the Irma software:

Drive and directory: _____

q Decide which Install Type you want to use:

__ Personal Copy, which installs Irma for a single user.
__ Shared Access, which allows you to install Irma to a shared drive so that multiple users can access the same program files.

q Decide if you need to use Complete Installation or Custom Installation:

__ Complete Installation installs all standalone connection types (except for X.25) and all gateway connection types.
__ Custom Installation allows you to select connection types and applications to install. Use this option if you want to install a server connection or an X.25 stand-alone connection. For a custom installation, refer to "Additional checklists for Custom Installation" on page 2-13.

q If you have a previous version of Irma installed, decide if you want to save the existing configuration files (for a complete list of file types, see Chapter 1, "This Is Irma"):

__ Yes
__ No

q Decide if you want the Setup program to automatically change the system files. If not, you must do this step manually. We recommend that you let the Setup program perform this step automatically. Your current system files will be backed up by the Setup program.

__ Yes
__ No

q If you are going to install Irma Graphics, be sure you have the optional diskette labeled "Irma Graphics" available from Attachmate. For more information, see "Ordering optional software" on page 2-3.

Checklist for TN3270 connections

Complete the following checklist for TN3270 connections:

q Install the LAN adapter in your PC.

q Install the TCP/IP protocol software required for your controller, gateway, or server. For more information, see "Software requirements" on page 2-6.

q Make sure you can access the TN3270 network by typing the following command at a command prompt:

PING *host*

In this statement, *host* is the address of the TCP/IP host or the TCP/IP host name.

This utility indicates whether or not data is being sent successfully over the TCP/IP network.

Checklist for stand-alone connections

Complete the following checklist for stand-alone connections:

q Install the communications adapter(s) you are going to use in your PC.

Record all the hardware settings you select because you will need to enter the information when you configure your links. Note that not all adapters use all the following settings:

Interrupt: _____
DMA channel: _____
I/O address: _____
I/O base address: _____
Memory segment address: _____
Driver name: _____

> **Caution**   If the parameters you enter for the configuration do not match your hardware configuration, Irma may not operate correctly.

Some communications adapters require that you install the drivers and reboot your PC so that the drivers are loaded before you can run the Irma Setup program.

q If you are going to use X.25 as your stand-alone connection type, be sure you have the optional diskette labeled "Irma X.25 Support," available from Attachmate. For more information, see "Ordering optional software" on page 2-3.

Checklists for gateway or server connections

Complete the following checklist for gateway or server connections:

q Install the LAN adapter in your PC.

q Install the LAN client software required for your gateway or server connectivity. Configure your adapter to use the same protocol your gateway or server uses. For more information, see "Software requirements" on page 2-6.

q Determine whether you have the necessary privileges to use the LAN resources, including the gateway or server communications capabilities. If you have questions, ask your LAN administrator.

Additional checklist for Eicon SNA Gateway

Complete the following checklist for an Eicon SNA Gateway connection:

q Install the DOS Workstation Communications Drivers that are included with the Eicon Gateway. For more information, refer to the documentation provided by Eicon.

q The following files, provided by Eicon, should be copied to your PC into a directory that is in your search path:

__ NABIOS.EXE
__ NARDR.CMD (for NetBIOS only)
__ NARDRSPX.CMD (for IPX/SPX only)
__ ECLAN.EXE

q If you are using a 386™ or 486™ in Enhanced mode, the following lines must be added to the SYSTEM.INI file under the [386Enh] section:

```
device=[path]VNABIOS.386
NAHEAPSIZE=nn
```

[*path*] is the complete path to the directory in which your Eicon files reside, and *nn* is a numeric value. Usually, 45 should be an acceptable value.

If the `device=` statement is missing from the SYSTEM.INI file, the following pop-up message is displayed: "NABIOS not loaded properly:100."

If the `NAHEAPSIZE` statement is missing from the SYSTEM.INI file, a pop-up message may be displayed stating that the value should be increased.

Additional checklists for Custom Installation

If you choose to install the mainframe connectivity using the Custom Installation, complete this checklist:

q Decide what connection types you want to install. You can install any number of stand-alone and gateway connection types or you can install a single server connection type.

Select one of the following server connection types:

__ HP-UX SNAplus Server
__ Attachmate Select Comm Server (be sure to complete the "Additional checklist for Select Comm Server" on page 2-14).
__ Microsoft SNA Server
__ Winsock TCP/IP client

Or, select any number of the following stand-alone and gateway connection types:

__ LAN Attached (802.2)
__ Multi-Session Coax (DFT)
__ Remote (SDLC)
__ Single Session (CUT)
__ X.25 Standalone (requires the options X.25 Connection diskette)
__ TN3270 over TCP/IP
__ ATLANTIS SNA Gateway
__ Attachmate IrmaLAN for VINES Gateway
__ Attachmate IrmaLAN NetBIOS Gateway
__ Attachmate IrmaLAN NetWare Gateway
__ Attachmate Netway 2000
__ Eicon SNA Gateway
__ Novell NetWare for SAA Gateway

q Decide which applications to install:

__ APPC/CPI-C (supported only with DFT, SDLC, 802.2, Select Comm
   Server, and SNA Server)
__ DOS HLLAPI redirector
__ EHLLAPI
__ LUA support (supported only with DFT, SDLC, 802.2, Select Comm
   Server, and SNA Server)
__ Mainframe Display
__ Online help (you should install online help since it contains most of the
   information you need to configure, use, and customize Irma)
__ QuickDDE
__ WinHLLAPI

Additional checklist for Select Comm Server

If you want to install the mainframe connectivity with a Comm Server
connection, you need the following information from your system
administrator:

q Determine the name of the Select Comm Server PC.

Name of Comm Server PC: _____

q Make sure you have read access privileges for the Comm Server
\COMMSRV directory. See your system administrator for more
information.

q If you are running DOWNLOAD.EXE in your AUTOEXEC.BAT file,
remove the DOWNLOAD.EXE statement and reboot your PC before
you install Irma.

Summary

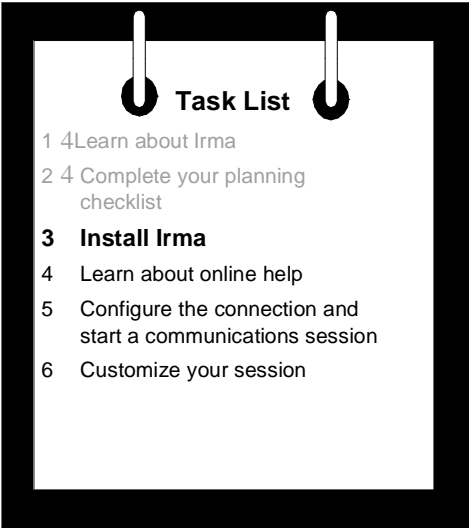In this chapter, you learned about the following:

q   The Irma package contents.

q   How to plan for your Irma installation.

q   What hardware and software you need for each connectivity type.

q   How to upgrade from previous Attachmate emulation products.

You should also have completed your installation checklists for your specific connectivity types. Now turn to Chapter 3, "Installing Irma," and follow the step-by-step instructions for installing Irma.

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Installing Irma

Chapter 3

Task List

1 4 Learn about Irma

2 4 Complete your planning
checklist

3   Install Irma

4   Learn about online help

5   Configure the connection and
start a communications session

6   Customize your session

In this chapter, installation instructions are provided for installing Irma from the CD-ROM and from diskettes. You'll learn about the Personal Copy and Shared Access installation types. This chapter also tells you how to do a Complete installation or a Custom installation. You'll also learn what the Setup program does, and how to run the Setup program after Irma is installed.

If you completed the installation checklists in Chapter 2, installing Irma will be very easy.

You'll need about 15 minutes to complete the installation process.

Running the Setup program from CD-ROM or diskettes

The Irma for the Mainframe CD-ROM disk contains your Irma software, an online help system, and the *Getting Started Guide* in electronic format. The directories on the CD are organized as shown in Table 3-1.

Table 3-1.   Directory structure on the CD-ROM

Directories	Description
IWW303	System and program files.
DISKS	System and program files.
DOCS	Online help files and *Getting Started Guide* in electronic format.

You may want to copy the Irma files from the CD-ROM to a set of diskettes for installation at a later time. To do this, read the next section, "Creating the diskettes." This step is optional. If you don't wish to do this now, proceed to the section called "Running the Setup program."

Creating the diskettes

This procedure describes how to create installation diskettes from the DOS prompt. You'll need nine high-density diskettes. Follow these steps:

1   Insert the Irma CD-ROM disk into the CD-ROM drive.

2   Insert the first diskette in the a: drive.

3   Go to the DOS prompt.

4   At the DOS prompt, change to the DISKS directory on the CD-ROM.

5   Type the following:

    CREATDSK a:

6   Insert the diskettes, as required, during the copy process. It's a good idea to label them as they are created.

Running the Setup Program

Be sure to have your completed installation checklists handy as you run the Setup program.

Note Before running the Setup program, read the READTHIS.WRI file that is located in the IWW303 directory on the CD-ROM. It may contain additional information that you need before proceeding with the installation.

The Setup program prompts you for responses if you're installing Irma from the CD-ROM or from diskettes. When the setup is complete, the Irma for the Mainframe group box is displayed.

If you're installing Irma from diskettes, you are prompted to remove each diskette from the drive and insert the next diskette.

To run the Setup program from the CD-ROM or from diskettes, follow these steps:

1   Start Windows if it's not already running.

2   Insert the CD-ROM or diskette into the drive.

3   From the Windows Program Manager, choose the Run command from the File menu.

4   If you're installing from the Irma CD, specify the IWW303 directory. To do this, you may either type the directory path in the Command Line edit box or choose Browse to select it.

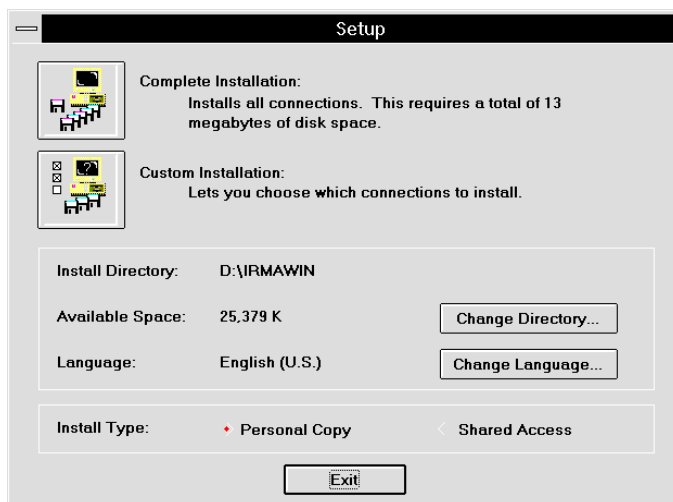**5**   Select the SETUP.EXE file and press ENTER. The Setup program starts.

6 If you're installing from diskettes, type the following command in the Command Line edit box and press ENTER.

*drive***:\SETUP**

In this command, *drive* is the drive where you inserted the Irma Setup diskette. At this point, the Setup program starts.

The Attachmate License Agreement is displayed.

7 Read the License Agreement. When you are finished, click "I have read the entire license agreement and I agree." The Irma Setup dialog box is displayed, as shown in Figure 3-1.

Figure 3-1.   The Setup dialog box

8 Do the following:

To...	Do this...
Change the default destination direction	Click Change Directory. Then use the Install Location dialog box to select the destination drive and directory.
	You can select from the drive list to set the installation directory; however, this process is slow because the entire drive must be scanned.
Change the host language (character set) or select CECP support	Click Change Language. Then use the Language dialog box to select the host language and select CECP support.

9 Do one of the following:

To...	Do this...
Perform a complete installation with all connections*	Click the Complete Installation button.
Perform a custom installation, which allows you to select the connections you want to install	Click the Custom Installation button.

* This installation installs all mainframe gateways and standalone connection types (except for X.25 connectivity). To install a server connection type or X.25 connectivity, you must perform a custom installation.

10 You can install either a personal copy of Irma on your desktop PC, or install a copy on a network for shared access. Do one of the following:

To...	Do this...
Install the software for a single user	Choose Personal Copy as the install type, and read the next section "Installing a personal copy."
To install the software for shared access	Choose Shared Access as the install type and skip to the section "Installing for shared access" on page 3-14.

Installing a personal copy

Continue reading this section if you chose Personal Copy as the Install type. Read either "Complete installation" or "Custom installation," depending on the selection you made earlier in the Setup program.

Complete installation

Continue reading this section if you chose Complete Installation.

1 Do one of the following:

If...	Then...
The Setup program detects that you already have a version of Irma installed.	The Save Configuration Files dialog box is displayed as shown in Figure 3-2. Continue with the next step.
The Setup program does not detect that you already have a version of Irma installed.	Skip to step 3.
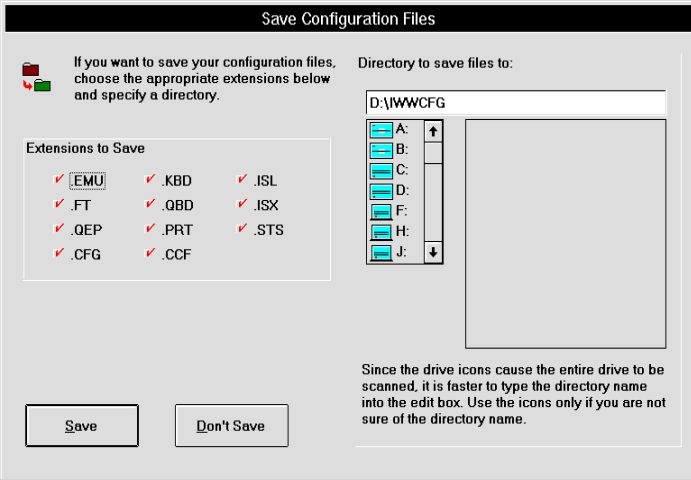
Figure 3-2.   The Save Configuration Files dialog box

2 Do one of the following:

Click this button...	To...
Save	Save the selected configuration files to a temporary directory.
Don't Save	Not save any of your previous configuration files.

3 At this point, the Irma files are copied to the destination directory. If you are installing from diskettes, you are prompted to remove each diskette from the drive and insert the next diskette.

> **Note** You can stop the installation process at any time by clicking Cancel.

When the files have been copied, the Group Box dialog box is displayed.

4 Do one of the following:

Select this option...	To...
User Defined	Create a new program group containing the Irma icons.
Any program group from the list box	Add the Irma icons to an existing program group.

5 Click OK.

6 If you selected User Defined, the Name Group Box dialog box is displayed. Enter the new group box name and click OK. You are returned to the Group Box dialog box. Then click OK.

The Update System Files dialog box is displayed, as shown in Figure 3-3.
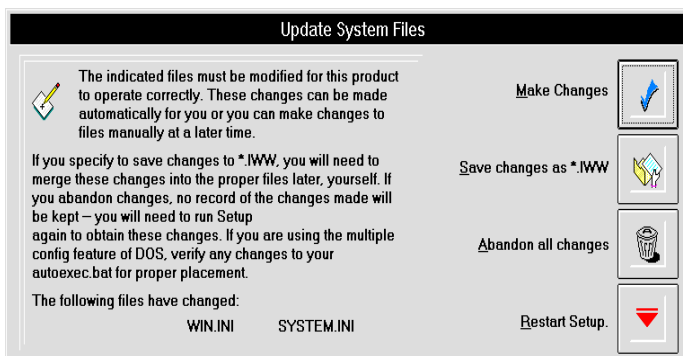
Figure 3-3.   The Update System Files dialog box

7 Do one of the following:

Click this button...	To...
Make Changes	Automatically change the system files AUTOEXEC.BAT, WIN.INI, and SYSTEM.INI.
Save Changes as *.IWW	Save the changes to a separate file. You must incorporate the changes to the individual files manually. The dialog box displays recommended changes to the AUTOEXEC.BAT file and allows you to edit the file. Once Setup has edited the files, it displays the message "Changes have been made" and shows you where it stores the original files.
Abandon All Changes	Cancel the Setup program.
Restart Setup	Return to the first screen of the Setup program.

If you had a previous version of Irma installed, and you selected to save your configuration files, a Setup dialog box is displayed asking if you want to restore those files from the temporary directory to the new Irma directory.

8 Do one of the following:

Choose this option...	To...
Yes	Move all the saved configuration files from the temporary directory to the Irma directory.
No	Keep all the saved configuration files in the temporary directory. You can manually move them to the Irma directory at a later time.

The Setup Complete dialog box is displayed.

9   Do one of the following:

Click this button...	To...
Restart PC Now	Close all your applications and restart Windows.
Do Not Restart	Continue working with Windows; however, you must restart Windows before using Irma.

At this point, the installation is complete. You can skip the next section, and turn to "What the Setup program does" on page 3-25.

Custom installation

Continue reading this section if you chose Custom Installation.

At this point, the Connections dialog box is displayed, as shown in Figure 3-4.
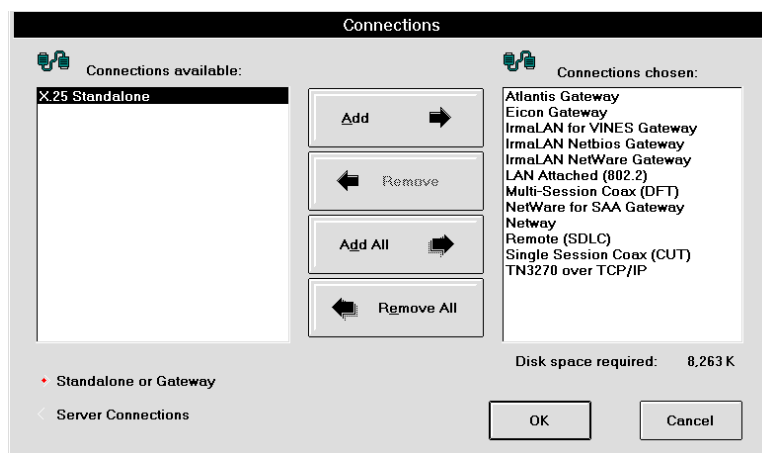
Figure 3-4.   The Connections dialog box

The following table describes the options on the Connections dialog box.

Note You must choose at least one connection type.

Choose this option...	To...
Standalone or Gateway	Display the stand-alone and gateway connection types in the Connections Chosen list box.
Server Connections	Display the server connection types in the Connections Available list box.
Add	Move the highlighted connection type from the Connections Available list box to the Connections Chosen list box.
Remove	Move the highlighted connection type from the Connections Chosen list box to the Connections Available list box.
Add All	Move all connection types from the Connections Available list box to the Connections Chosen list box.
Remove All	Move all connection types from the Connections Chosen list box to the Connections Available list box.

Follow these steps:

1 Once you have selected your desired connections, click OK. The Applications dialog box is displayed, as shown in Figure 3-5.

Figure 3-5.   The Applications dialog box

The following table describes the options on the Applications dialog box.

Note You must choose at least one application to install.

Click this button...	To...
Add	Move the highlighted application from the Applications Available list box to the Applications Chosen list box.
Remove	Move the highlighted application from the Applications Chosen list box to the Applications Available list box.
Add All	Move all applications from the Applications Available list box to the Applications Chosen list box.
Remove All	Move all applications from the Applications Chosen list box to the Applications Available list box.

2 Once you have selected your desired applications, click OK.

3 Do one of the following:

If...	Do this...
The Setup program detects that you already have a version of Irma installed.	The Save Configuration Files dialog box is displayed, as shown in Figure 3-6. Continue with the next step.
The Setup program does not detect that you already have a version of Irma installed.	Skip to step 5.
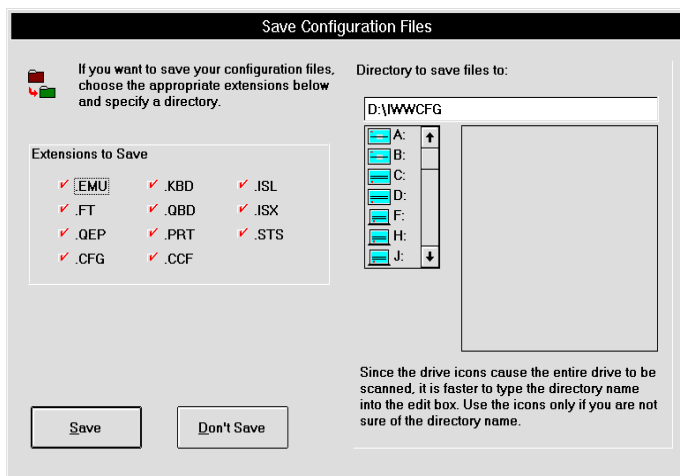
Figure 3-6.   The Save Configuration Files dialog box

4   Do one of the following:

Click this button...	To...
Save	Save the selected configuration files to a temporary directory.
Don't Save	Not save any of your previous configuration files.

5   At this point, the Irma files are copied to the destination directory. If you are installing from diskettes, you are prompted to remove each diskette from the drive and insert the next diskette.
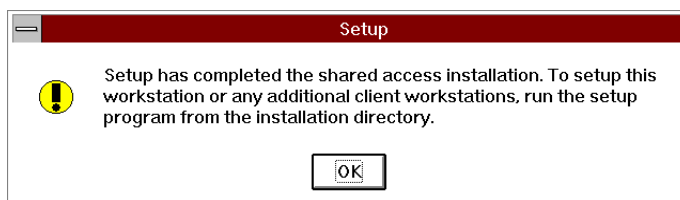
> *Note*   You can stop the installation process at any time by clicking Cancel.

When the files have completed copying, the Update System Files dialog box is displayed, as shown in Figure 3-7.
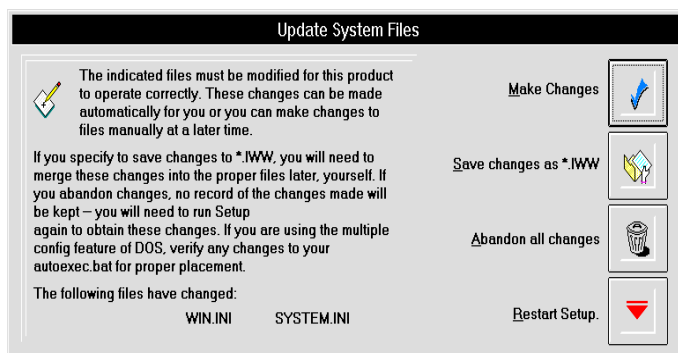
Figure 3-7.   The Update System Files dialog box

6 Do one of the following:

Click this button...	To...
Make Changes	Automatically change the system files AUTOEXEC.BAT, WIN.INI, and SYSTEM.INI.
Save Changes as *.IWW	Save the changes to a separate file. You must incorporate the changes to the individual files manually. The dialog box displays recommended changes to the AUTOEXEC.BAT file and allows you to edit the file. Click the Undo button to undo incorrect changes. Once Setup has edited the files, it displays the message "Changes have been made" and shows you where it stores the original files.
Abandon All Changes	Cancel the Setup program.
Restart Setup	Return to the first screen of the Setup program.

If you had a previous version of Irma installed, and you selected to save your configuration files, a Setup dialog box is displayed asking if you want to restore those files from the temporary directory to the new Irma directory.

7   Do one of the following:

Choose this option...	To...
Yes	Move all the saved configuration files from the temporary directory to the Irma directory.
No	Keep all the saved configuration files in the temporary directory. You can manually move them to the Irma directory at a later time.

The Setup Complete dialog box is displayed.

8   Do one of the following:

Click this button...	To...
Restart PC Now	Close all your applications and restart Windows.
Do Not Restart	Continue working with Windows; however, you must restart Windows before using Irma.

At this point, the installation is complete. You can skip the next section, and turn to "What the Setup program does" on page 3-25.

Installing for shared access

Continue reading this section if you chose Shared Access as the Install type. Read either "Complete Installation" or "Custom Installation," depending on the selection you made earlier in the Setup program.

Complete installation

Continue reading this section if you chose Complete Installation.

1   Do one of the following:

If...	Do this...
The Setup program detects that you already have a version of Irma installed.	The Save Configuration Files dialog box is displayed, as shown in Figure 3-8. Continue with the next step.

If...	Do this...
The Setup program does not detect that you already have a version of Irma installed.	Skip to step 3.
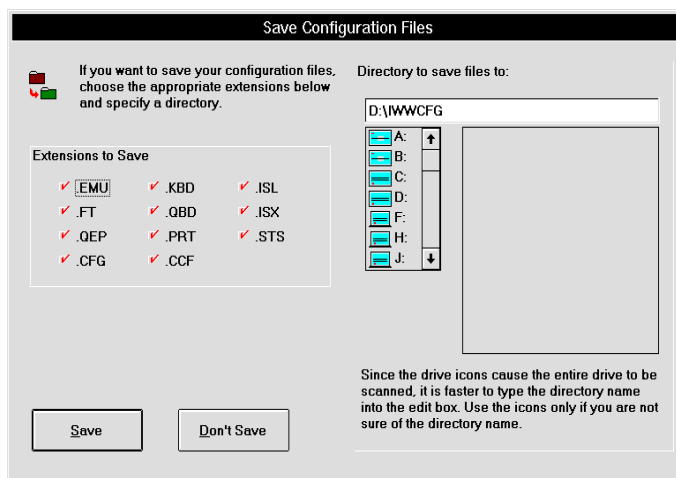
Figure 3-8. The Save Configuration Files dialog box

2 Do one of the following:

Click this button...	To...
Save	Save the selected configuration files.
Don't Save	Not save any of your previous configuration files.

3 At this point, the Irma files are copied to the destination directory. If you are installing from diskettes, you are prompted to remove each diskette from the drive and insert the next diskette.

> *Note* You can stop the installation process at any time by clicking Cancel.

If you had a previous version of Irma installed, and you selected to save your configuration files, a Setup dialog box is displayed asking if you want to restore those files from the temporary directory to the new Irma directory.

4 Do one of the following:

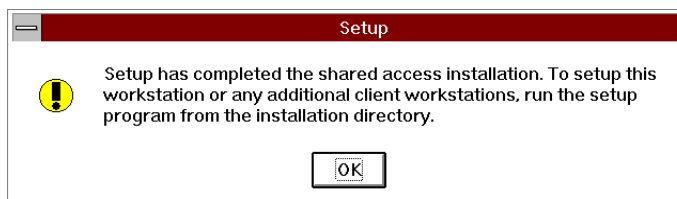| Choose this option...	To...
Yes	Move all the saved configuration files from the temporary directory to the Irma directory.
No	Keep all the saved configuration files in the temporary directory. You can manually move them to the Irma directory at a later time.

The Setup dialog box is displayed, as shown in Figure 3-9.

```
┌──────────────────────────────────────────────┐
│ ▬                  Setup                       │
├──────────────────────────────────────────────┤
│         Setup has completed the shared access  │
│   ⚠     installation. To setup this            │
│         workstation or any additional client   │
│         workstations, run the setup            │
│         program from the installation directory.│
│                                                │
│                    ┌──────┐                    │
│                    │  OK  │                    │
│                    └──────┘                    │
└──────────────────────────────────────────────┘
```

Figure 3-9.   The Setup dialog box

5 Click OK. At this point, the installation is complete.

Now you are ready to run the Setup program from each workstation. For instructions on installing to each workstation, skip to "Attaching a workstation to a shared installation" on page 3-21.

Custom installation

Continue reading this section if you chose Custom Installation.

At this point, the Connections dialog box is displayed, as shown in Figure 3-10.
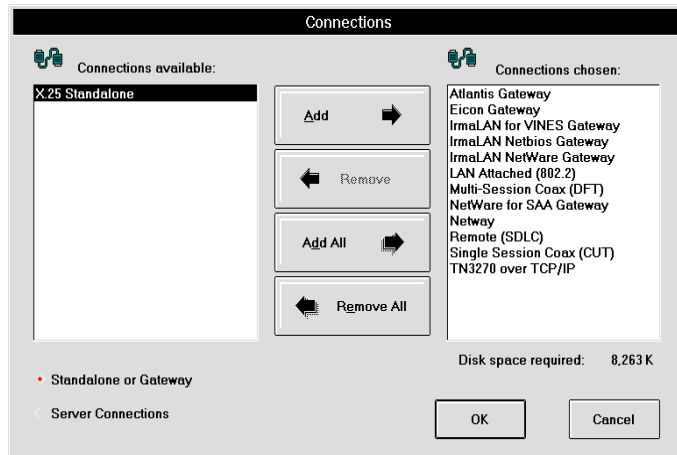
Figure 3-10.   The Connections dialog box

The following table describes the options on the Connections dialog box.

Note You must choose at least one connection type.

Choose this option...	To...
Standalone or Gateway	Display the stand-alone and gateway connection types in the Connections Chosen list box.
Server Connections	Display the server connection types in the Connections Available list box.
Add	Move the highlighted connection type from the Connections Available list box to the Connections Chosen list box.
Remove	Move the highlighted connection type from the Connections Chosen list box to the Connections Available list box.
Add All	Move all connection types from the Connections Available list box to the Connections Chosen list box.
Remove All	Move all connection types from the Connections Chosen list box to the Connections Available list box.

Follow these steps:

1 Once you have selected your desired connections, click OK. The Applications dialog box is displayed, as shown in Figure 3-11.

Figure 3-11. The Applications dialog box

The following table describes the options on the Applications dialog box

Note You must choose at least one application to install.

Click this button...	To...
Add	Move the highlighted application from the Applications Available list box to the Applications Chosen list box.
Remove	Move the highlighted application from the Applications Chosen list box to the Applications Available list box.
Add All	Move all applications from the Applications Available list box to the Applications Chosen list box.
Remove All	Move all applications from the Applications Chosen list box to the Applications Available list box.

2 Once you have selected your desired applications, click OK.

3 Do one of the following:

If...	Then...
The Setup program detects that you already have a version of Irma installed	The Save Configuration Files dialog box is displayed, as shown in Figure 3-12. Continue with the next step.
The Setup program does not detect that you already have a version of Irma installed	Skip to step 5.
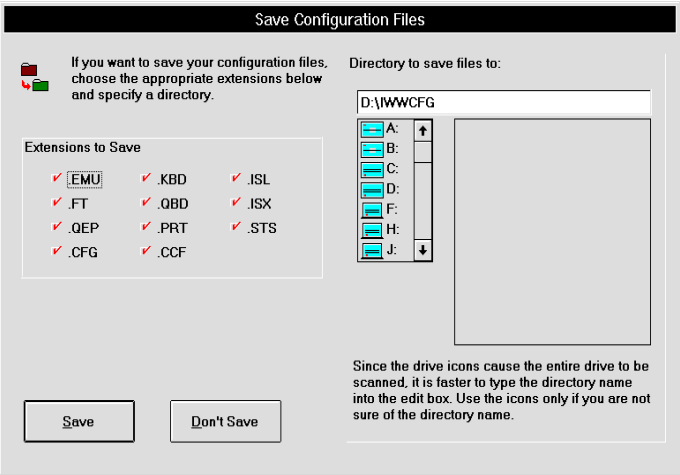
Figure 3-12. The Save Configuration Files dialog box

4 Do one of the following:

Click this button...	To...
Save	Save the selected configuration files.
Don't Save	Not save any of your previous configuration files.

5 At this point, the Irma files are copied to the destination directory. If you are installing from diskettes, you are prompted to remove each diskette from the drive and insert the next diskette.

> *Note* You can stop the installation process at any time by clicking Cancel.

If you had a previous version of Irma installed, and you selected to save your configuration files, a Setup dialog box is displayed asking if you want

to restore those files from the temporary directory to the new Irma directory.

6 Do one of the following:

Choose this option...	To...
Yes	Move all the saved configuration files from the temporary directory to the Irma directory.
No	Keep all the saved configuration files in the temporary directory. You can manually move them to the Irma directory at a later time.

The Setup dialog box is displayed, as shown in Figure 3-13.

Figure 3-13. The Setup dialog box

7 Click OK. At this point, the installation is complete.

Now you are ready to run the Setup program from each workstation. For instructions on installing to each workstation, read the next section, "Attaching a workstation to a shared installation."

Attaching a workstation to a shared installation

To attach a workstation to the Irma shared installation, follow these steps:

1 From the workstation that you want to attach, use Windows File Manager and choose the file SETUP.EXE located in the Irma installation directory.

The Irma title screen is displayed. Then the Attachmate License Agreement is displayed.

2 Read the Attachmate License Agreement, using the scroll bar to view the text.

3 When you have finished reading the License Agreement, click "I have read the entire license agreement and I agree." The Welcome dialog box is displayed, as shown in Figure 3-14.
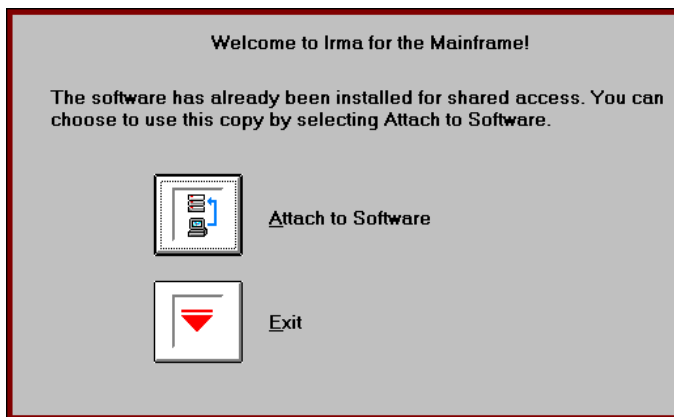
Figure 3-14. The Welcome to Irma for the Mainframe! dialog box

4 Click Attach to Software. The Set Private Directory dialog box is displayed, as shown in Figure 3-15.
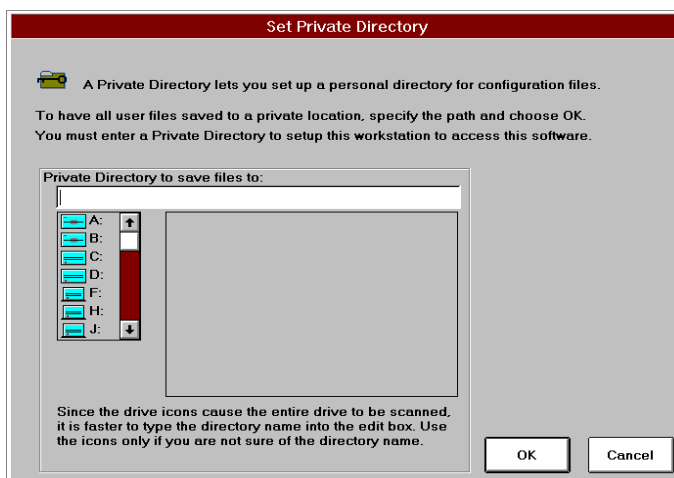
Figure 3-15. The Set Private Directory dialog box

5 Specify the private path and click OK.

6 At this point, the Irma files are copied to the destination directory. If you are installing from diskettes, you are prompted to remove each diskette from the drive and insert the next diskette.

> **Note** You can stop the installation process at any time by clicking Cancel.

When the files have been copied, the Group Box dialog box is displayed.

7 Do one of the following:

Choose this option...	To...
User Defined	Create a new program group containing the Irma icons.
Any program group from the list box	Add the Irma icons to an existing program group.

8 Click OK.

If you selected User Defined, the Name Group Box dialog box is displayed.

9 Type the new group box name and click OK. You are returned to the Group Box dialog box. Then, click OK.

The Update System Files dialog box is displayed, as shown in Figure 3-16.
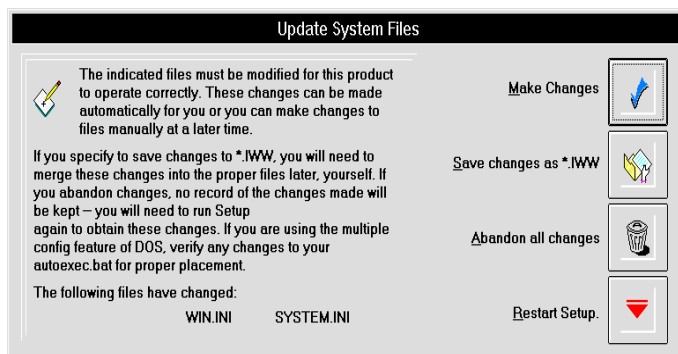
Figure 3-16. The Update System Files dialog box

10 Do one of the following:

Click this button...	To...
Make Changes	Automatically change the system files AUTOEXEC.BAT, WIN.INI, and SYSTEM.INI. We recommend that you allow the Setup program to make these changes for you.
Save Changes as *.IWW	Save the changes to a separate file. You must incorporate the changes to the individual files manually. The dialog box displays recommended changes to the AUTOEXEC.BAT file and allows you to edit the file. Once Setup has edited the files, it displays the message "Changes have been made" and shows you where it stores the original files.
Abandon All Changes	Cancel the Setup program.
Restart Setup	Return to the first screen of the Setup program.

The Setup Complete dialog box is displayed.

11 Do one of the following:

Click this button...	To...
Restart PC Now	Close all your applications and restart Windows.
Do Not Restart	Continue working with Windows; however, you must restart Windows before using Irma.

At this point, the installation is complete. Continue reading the next section, "What the Setup program does."

What the Setup program does

When you install Irma, the Setup program performs the following tasks:

- Copies the Irma files and directories to the destination directory

- Creates a program group containing the Irma application icons

- If you chose to have the Setup program automatically update your system files, the following changes are made:

  - The \IRMA directory is added to the path statement of your AUTOEXEC.BAT, where IRMA is the destination directory you specified

  - The following lines are added to your WIN.INI file:

    ```
    [IrmaWorkStation]
    defaultpath=drive:\path\3270
    CompleteRUs=NO
    UsePrintRSHUTD=NO
    ```

- If you had a previous version of Irma installed, and you chose to save your configuration files, a temporary directory named \IWWCFG is created, and those selected files are copied to that directory. At the end of the Setup program, if you selected to restore your configuration files, the files are moved from the temporary directory to the Irma installation directory.

Running Setup after Irma is installed

After you initially install Irma, you may need to run the Setup program again. The options available to you depend on whether you installed Irma as a personal copy or as a shared access installation.

Personal copy

If you installed Irma as a personal copy, you can run the Setup program to do the following:

- View the ReadThis.WRI file

- Add connections or applications

- Install an option disk

- Change the host language

- Deinstall Irma

- Set up other options including:

    - Update system files

    - Change the name of the Irma program group

    - Save configuration files

    - View the current setup

    - Install a keyboard driver

To run the Setup program, double-click the Setup icon from the Irma program group, and then choose the option that you want to change.

Shared access

If you installed Irma for shared access, you can run the Setup program to do the following:

- Update system files

- Change the name of the Irma program group

- Save configuration files

- View the current setup

- Install a keyboard driver

- Attach to the shared access installation

To run the Setup program, double-click the Setup icon from the Irma program group, and then choose the option that you want to change.

Summary

In this chapter, you learned the following:

q　How to install Irma from the CD-ROM or from diskettes.

q　How to install Irma using either the Personal Copy or the Shared Access installation types.

q　What the Setup program does.

q　How you can run the Setup program after the initial installation.

Before you can use any of the installed connectivities, you must configure each connection. All the information about configuring, customizing, and using the Irma connectivities is contained in online help. Therefore, it is very important that you understand how the Irma online help works and how to find the information you need.

Now turn to Chapter 4, "Using Online Help," to learn how to use the Irma online help.

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Using Online Help

Chapter 4

Task List

1 4 Learn about Irma

2 4 Complete your planning checklist

3 4 Install Irma

4 Learn about online help

5 Configure the connection and start a communications session

6 Customize your session

If you haven't used online help before, don't worry. This chapter will teach you how to access online help from a dialog box and by using the Help menu. You'll also learn how to use each of the Help buttons and how to search for a topic.

Even if you're familiar with using online help in other products, take a few minutes to scan this chapter so you'll understand how the Irma online help works.

You'll need about 15 minutes to read this chapter and complete the online help tutorial.

Why use online help?

It is very important that you are comfortable working with the Irma online help because it contains the information you need to configure, use, and customize Irma.

What if you're new to online help?

If you haven't used online help before, take a few minutes to become familiar with the features described in this section.

When you access online help, you'll see a window similar to the one in Figure 4-1.
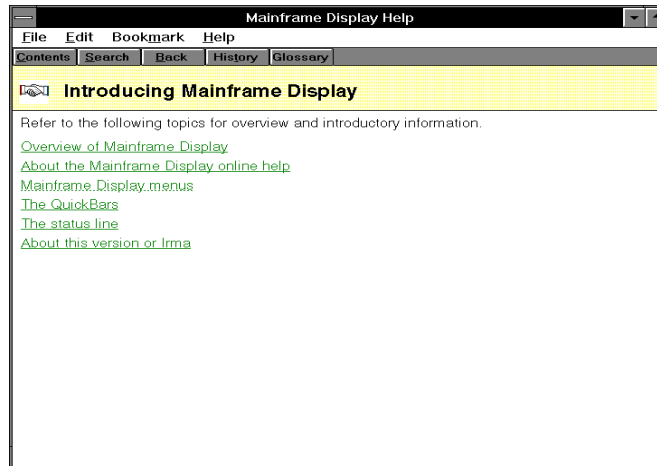
Figure 4-1.   Example of a Help window

Table 4-1 describes the Help window features.

Table 4-1.   Help window features

Feature	Example	Description
Jumps	The status line	When text is underlined with a solid line, it means that the text is linked to another piece of information. When you move the pointer over the underlined text, the pointer changes to a pointing hand. Click once on the underlined text to "jump" to the related information. To move back to the original help topic, choose Back from the button bar.
Pop-up boxes	Mainframe Display	When text is underlined with a dotted line, it means that the text is linked to another piece of information. When you move the pointer over the underlined text, the pointer changes to a pointing hand. Click once on the underlined text to display a pop-up box containing the related information. To close the pop-up box, click once anywhere on the screen.

Table 4-1. **Help window features** (cont.)

Feature	Example	Description
Contents button	Contents	Displays the help contents for the application. This contents page is organized much like a table of contents in a book. If you're new to an application, you can start with "Introducing" and move on to the other major topics, just as you would move through a book.
Search button	Search	Displays the Search dialog box, which allows you to search for keywords in the online help.
Back button	Back	Takes you back to the previous Help panel.
History button	History	Displays the names of the Help panels in the order in which you have accessed them.
Glossary button	Glossary	Displays a glossary of terms used in the application.

For complete information about using Windows online help, including how to print Help panels, do the following:

• Choose Using Windows Help from the Help menu of any window.

  or

• Open any Help window and press F1.

  or

• Open any Help window and choose Using Help from the Help menu.

How do you access online help?

Table 4-2 explains the two ways to access online help.

Table 4-2.   Ways to access online help

You can access online help by...	What you see is...
Clicking the Help button in a dialog box.	Detailed information about the dialog box, including information for each entry field or selection.
Choosing Help from the menu bar.	Help that is organized much like a book, including a contents panel. You can search the entire help file for the information you want. The help file also includes a glossary.

Once you have accessed online help, you can resize, move, maximize, and minimize the Help window, just as you can any other window. If you see a scroll bar on the right side of the Help window, be sure to scroll down to see all the information for a help topic.

The following sections explain how to access online help using both methods.

Clicking the Help button from a dialog box

Most dialog boxes that require you to enter information or to make choices contain a Help button. For assistance with completing the fields or making selections, simply click the Help button. The Help window is displayed with information about the dialog box, including the entry fields and other selections.

To close the Help window, choose Exit from the File menu.

Choosing Help from the menu bar

You can access online help anytime by choosing one of the topics from the Help menu. The menu selections are described in Table 4-3.

Table 4-3.   Help menu selections

Selection	Description
Help for *application*	This selection opens the Help window and displays a panel that introduces the application.
Using Windows help	This selection opens the Help window and displays general information about how to use online help.
Contents	This selection opens the Help window and displays the contents panel for the application's online help.

Online help tutorial

Follow these steps to learn how to access, search, and navigate through the Irma online help.

Lesson 1: Using the Help button in a dialog box

1   Start the Mainframe Sessions application by double-clicking the Irma Mainframe Sessions icon. The Select Connection dialog box is displayed if Irma hasn't been configured yet, otherwise the Start Sessions dialog box is displayed. For the purpose of this tutorial, either one will do. You don't need to activate a host session to complete the online help tutorial.

2   Click the Help button. The Help window is opened. If the Select Connection dialog box is displayed, you will see information about the Select Connection dialog box. If the Start Sessions dialog box is displayed, information about that dialog box is displayed.

   4 You just accessed online help using a dialog box Help button.

3   For the Select Connection dialog box, click the green text "Selecting your connection" to jump to information about selecting connection types. If the Start Sessions dialog box is displayed, click the green text "Enabling APA Graphics" to jump to information about enabling All Points Addressable graphics.

   4 You just learned how to "jump" from one topic to another.

4   Close the Help window by choosing Exit from the File menu.

5   Click Cancel to close the Select Connection or Start Sessions dialog box.

Lesson 2: Using the Help menu option

1   Choose Help for Mainframe Display from the Help menu. The Help window is opened, and it displays the help topic "Introducing Mainframe Display."

  4 You just accessed online help using the Help menu.

2   Click the text "Mainframe Display menus." A pop-up box displays a list of jumps.

3   To close the pop-up box, click anywhere on the screen.

  4 You just learned how to display and close a pop-up box.

4   Choose Contents from the button bar. The help topic "Help Contents for Mainframe Display" is displayed.

  4 You just learned how to navigate to the Contents panel.

5   Click the text "Getting Started." The "Getting Started" help topic is displayed.

6   Click the text "Selecting your connection." The "Selecting your connection" help topic is displayed.

7   Click Back from the button bar. The previous help topic ("Getting Started") is displayed.

8   Click Back from the button bar. The previous help topic ("Help Contents for Mainframe Display") is displayed.

  4 You just learned how to display previous panels using the Back button.

9   Click Search from the button bar. The Search dialog box is displayed.

10 Type the word **quickbar**. As you type, the upper list box displays keywords that match what you are entering.

11 When the word "QuickBar" is highlighted, click Show Topics. A list of related topics is displayed in the lower list box.

12 Select "Customizing your QuickBar," and click Go To. The "Customizing your QuickBars" topic is displayed.

  4 You just learned how to find a help topic using the search feature.

13 Close the Help window by choosing Exit from the File menu.

Lesson 3: Using the Glossary button

1   Choose Contents from the Help menu. The Help contents for Mainframe Display window is opened.

2   Click Glossary from the button bar. The Glossary window is opened, and displays the glossary contents.

3   Click the letter "L." The contents list scrolls to the letter L.

4   Scroll down until you see the text "LU" and click the text. A definition for LU is displayed in a pop-up box.

5   To close the pop-up box, click anywhere on the screen.

6   To close the Glossary window, choose Exit from the File menu.

> 4 You just learned how to use the glossary feature.

Lesson 4: Accessing Customer Support information

If you have a question, and you cannot find the answer in this guide or in the online help, you may want to contact Attachmate Customer Support. To find out more information about troubleshooting and contacting Customer Support, follow these steps:

1   Choose Contents from the Help menu. The Help Contents for Mainframe Display window is opened.

2   Click Troubleshooting. Information about troubleshooting is displayed. From this display, you can access information about the Customer Support services that are available.

> *Note* You can also refer to Appendix A, "Troubleshooting," for information about contacting Attachmate Customer Support.

3   To close the Troubleshooting display window, click the Back button to return to the Help contents for Mainframe Display window, or choose Exit from the File menu to exit online help.

> 4 You just learned how to access troubleshooting and Customer Support information.

That's all there is to using the Irma online help. You should now feel comfortable in accessing the information you need to configure, use, and customize Irma.

Summary

In this chapter, you learned the following:

q   How to access online help from a dialog box and the Help menu.

q   What each Help button does.

q   How to search the online help for a keyword.

q   How to use the Glossary.

q   How to access troubleshooting and Customer Support information.

Now that you know how to use the Irma online help, turn to Chapter 5, "Finishing Up the Task List," which tells you where to go from here to complete the remaining tasks on the task list.

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Finishing Up the
Task List

Chapter 5

Task List

1 4 Learn about Irma

2 4 Complete your planning
       checklist

3 4 Install Irma

4 4 Learn about online help

**5 Configure the connection
    and start a communications
    session**

6 Customize your session

In this chapter, you'll complete Task 5, "Configure the connection and start a communications session." This chapter also tells you how to get additional information from online help to assist you with Task 6, "Customize your session."

In addition, this chapter describes the application tools available for Irma.

You'll need about 10 minutes to read this chapter.

Configuring the connection and starting a communications session

Task 5 on the Task List is "Configure the connection and start a communications session." This section explains how to perform this task.

To configure a mainframe connection, follow these steps:

1 Start the Mainframe Sessions application by double-clicking the Irma Mainframe Sessions icon. The Select Connection dialog box is displayed.

As an example, a Select Connection dialog box with only the 802.2 connection installed is shown in Figure 5-1.
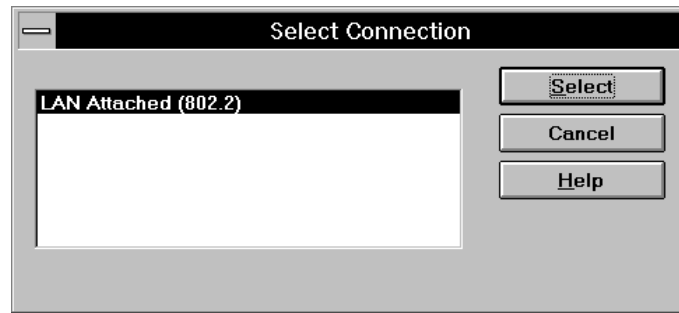
Figure 5-1.   The Select Connection dialog box
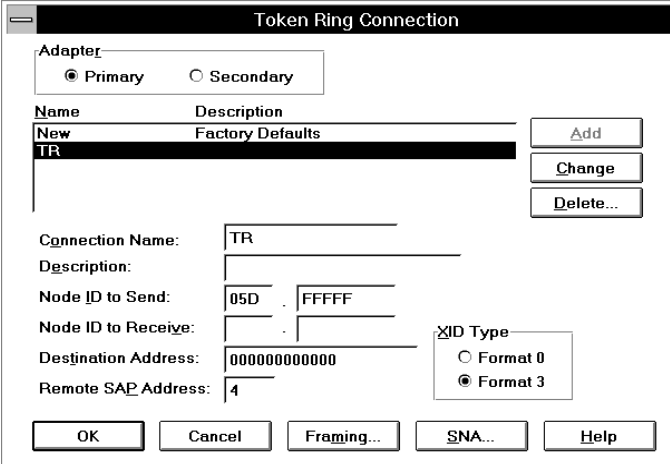
2   Select the connection type you want to use and click Select. The
Configuration Options dialog box is displayed, as shown in Figure 5-2.
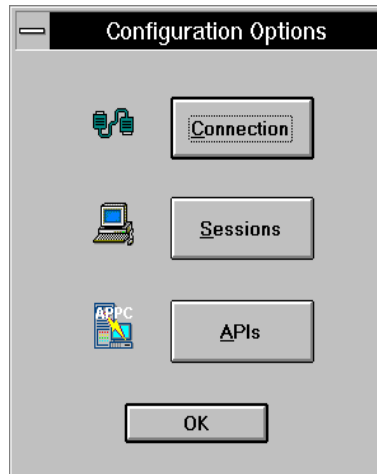
Figure 5-2.   The Configuration Options dialog box

3   Click Connection. A Connection dialog box is displayed with entry fields
for the selected connection type. For assistance with completing this
dialog box, click Help.

As an example, the Token-Ring Connection dialog box is shown in
Figure 5-3.

Figure 5-3.   The Token Ring Connection dialog box

4   Some connection types have additional dialog boxes that are accessed by
      clicking buttons on the Connection dialog box. Be sure to enter the
      required information in all the dialog boxes.

      For example, the Token-Ring Connection dialog box, shown in
      Figure 5-3, has two buttons named Framing and SNA. If you click either
      of these buttons, another dialog box is displayed.

5   When you have entered all the information in the Connection dialog
      box(es), click OK. The Select Connection dialog box is displayed.

6   Click Select to make the newly configured connection the active
      connection. The Start Sessions dialog box is displayed, as shown in
      Figure 5-4.
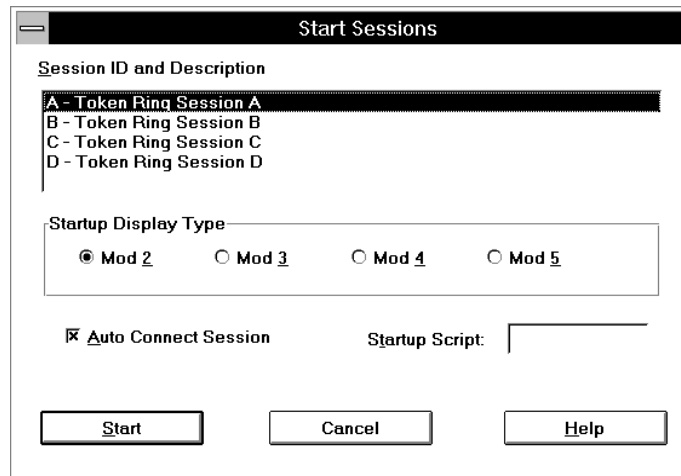
Figure 5-4.   The Start Sessions dialog box

7   Select the Session you want to start and the Startup Display Type. If desired, choose Auto Connect Session and specify a Startup Script.

For assistance with completing the fields in this dialog box, choose Help.

8   Click Start to start the session.

Customizing your session

Task 6 on the Task List is "Customize your session." All the information you need to perform this task is contained in the online help.

To find the information you want, follow these steps:

1 Choose Contents from the Help menu. The Help window is opened, and it displays the "Contents" topic.

2 Do one of the following:

To...	Do this...
See a list of related topics	Choose the Topic "Using the *application*," where *application* refers to the application you are currently running.
Search for a topic	Click Search from the button bar and search for a topic based on a keyword.

Refer to Chapter 4, "Using Online Help," for assistance with using online help.

Developing your own applications

As you use Irma, you may decide that you want to automate common tasks. There are several tools that can help you develop your own applications that work with Irma. Each tool is described in Table 5-1.

Table 5-1.   Development tools

Development tool	Description
Standard Irma Script Language (SISL)	Irma offers enhanced scripting capabilities with the Standard Irma Script Language (SISL). For example, you can use SISL to automate file transfers, start and control applications, access a mainframe database, and retrieve and move information. You use the QuickScript application that is included with Irma to create, edit, compile, and run the SISL scripts.
	Full support for SISL is included in the Mainframe Sessions application. Instructions for using SISL and QuickScript are contained in the QuickScript online help.

Table 5-1.   Development tools (cont.)

Development tool	Description
QuickApp™	Attachmate offers a product, QuickApp, which is a middleware communications development tool for developing client/server applications. QuickApp requires Visual Basic™, Visual C++™, PowerBuilder™, SQLWindows®, or ObjectView®. You can use QuickApp with Irma to develop graphical front-end interfaces for legacy host applications.
	For more information, or to order QuickApp, contact Attachmate at 1-800-426-6283.
Distributed Applications Developer's Tool Kit	To develop your own applications using APPC, CPI-C. LUA, or CSV, you must have this tool kit.
	To order the tool kit, call Attachmate at 1-800-426-6283.
HLLAPI Software Developer's Tool Kit	To develop your own applications using HLLAPI, you must have this tool kit.
	To order the tool kit, call Attachmate at 1-800-426-6283.

Summary

In this chapter, you learned the following:

q   How to configure a connection and start a session.

q   Where you can find information to help you customize your sessions.

q   The development tools available for Irma.

We hope you found this *Getting Started Guide* to be helpful. We welcome your comments so that we can continue to improve our documentation. Please use the Comment Card located in the back of this guide to give us your ideas and suggestions.

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Troubleshooting

Appendix A

General troubleshooting procedures

If you have problems running your Attachmate software, complete the following steps:

1 **Check to see that your system meets the minimum hardware and software requirements necessary to use the product.** Refer to the hardware and software requirements in your documentation for this information.

2 **Check the configuration options.** Most problems are caused by incorrect software configuration. Check to make sure you have selected the correct configuration options.

3 **Check your connections.** Check your cable connections and make sure that they are securely attached.

4 **Check your system.** You may be using peripheral equipment or other software that may not be compatible with this product. Try disabling some other memory-resident programs you are running, if any.

5 **Resolve errors.** If you are receiving error messages, click Troubleshooting from the Help Contents for help in resolving these messages.

6 **Consult your distributor.** If you cannot identify and solve the problem without assistance, contact your product distributor. Call from a location where you have access to the problem PC.

7 **Contact Attachmate Customer Support.** Refer to the section "Attachmate Customer Support options" for more information.

Attachmate Customer Support options

Attachmate offers several convenient methods for contacting our Customer Support services. You can receive support from Attachmate by:

• Phone

• Internet services

• FaxBack® services

For first-time installations of Attachmate software, we offer 60-days of complimentary SupportWare!™, a service that helps you get started with your new software and keeps you up to date on enhancements and new versions. For information on extended SupportWare! services, call (800) 288-5232. No-charge, electronic access to technical information is also available for customers who need assistance with installation and configuration.

SupportWare! Service Plans

Several other support plans are available for corporations that need connectivity expertise and information about Attachmate products for their Help desks or end-users. Attachmate is always expanding the ways we can serve you.

Our SupportWare! Service Plans are as follows:

• SupportWare! Enhanced Plan

• SupportWare! Elite Plan

• SupportWare! Strategic Plan

• SupportWare! Global Plan

• Per-incident and multi-pack options

For more information, call the Service Products Administration Group at (800) 288-5232, or use FaxBack support.

Contacting Customer Support by phone

Attachmate Customer Support is available Monday through Friday, 6:00 A.M. to 5:00 P.M., Pacific time, excluding Attachmate holidays. Table A-1 lists the phone numbers you can use to contact Attachmate Customer Support in North America.

Table A-1.   Customer Support phone numbers

Service	Phone number
Attachmate Customer Support	(800) 688-3270
RLN® and Unisys® Products	(800) 274-6633
Crosstalk®/Crossfax® Products	(206) 957-7764
Emissary, PathWay, and Other Internet Products	(800) 933-6795
SupportWare! Service Plan Administration	(800) 288-5232
ZIP!® Products (in the United States)	(800) 456-2350
ZIP! Products (in Canada)	(800) 800-6641

Customers outside of North America should contact their local resellers for assistance.

Attachmate Internet services

The Attachmate Internet servers listed below offer technical and marketing information about Attachmate products 24 hours a day, 7 days a week, so you can browse, download, or communicate with Customer Support at your convenience:

- Attachmate World Wide Web server—http://www.attachmate.com

- Attachmate FTP server—ftp.attachmate.com

- Attachmate Gopher server—gopher.attachmate.com

- Internet e-mail to Attachmate Customer Support— support@attachmate.com

The Attachmate World Wide Web server

The Attachmate Web server (http://www.attachmate.com) offers technical and marketing information on Attachmate products to any Internet browser on the Web. The Customer Support section of our Web site contains technical documentation, including Frequently Asked Questions (FAQ), popular solutions, technology focus papers, and various troubleshooting materials.

The Attachmate FTP server

The Attachmate FTP server (ftp.attachmate.com) allows FTP client software, running on an Internet-connected workstation, to browse and download Attachmate technical documents and program files. The information available through the FTP server is also served by the Web server and the Gopher server. Log on to the Attachmate FTP server as "anonymous" with your full e-mail address as the password.

The Attachmate Gopher server

Gopher is an Internet service that provides menu-driven access to Internet information. Using the Attachmate Gopher server (gopher.attachmate.com), Gopher clients can browse, search, and retrieve technical documents, programs, and other electronic information about Attachmate products.

The information available through the Gopher server is also served by the Web server and the FTP server. Access the Gopher server from the Customer Support page on the Attachmate Web server.

Internet e-mail to Customer Support

To reach Attachmate Customer Support by e-mail, send your questions to support@attachmate.com. When you submit questions, please include the following information:

- Your full name

- Your company name

- Your address, including your street address, city, state, country, and zip code

- The area code and phone number, including your extension, if applicable

- Your e-mail address

- The product name

- The version number

- The case number

- The contact number

- Specific details describing the problem or question

Attachmate FaxBack support

The Attachmate FaxBack service is available 24 hours a day, 7 days a week. The FaxBack service allows convenient delivery of technical support or marketing information directly to your fax machine. To access the Attachmate FaxBack service and receive a catalog of available documents, dial (206) 649-6595.

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We Need Your Comments

After you've used the product documentation, please give us your comments on this manual and the online help by completing this form and returning it to Attachmate . Your comments will help us improve our product.

1 Which information do you use most? ₚ Online ₚ Printed

2 Did you find any errors in the manual or online help?

ₚ Yes ₚ No

If so, please list the page numbers or online topic and describe the error:

3 Did you look up a topic in the manual's index that you couldn't find?

ₚ Yes ₚ No

If so, please list the topic: _____

4 Does the manual adequately explain how to install and set up the product?

ₚ Yes ₚ No

If not, what information is missing?

5 Were you able to find the function you needed?

ₚ Yes ₚ No

If not, what information is missing?

6 What part of this manual do you use most? _____

7 How often do you expect to refer to this manual?

ₚ Never ₚ Once ₚ Occasionally ₚ Often

8 Is the level of detail provided in the manual:

ₚ Too little ₚ About right ₚ Too much

If not enough information, what information is missing?

If too much information, what information do you not need?

9 How do you look for information in a manual?

ₚ Scan the book ₚ Refer to the Table of Contents ₚ Look up topics in the index

10 Are you able to move through the online help, leave the online help, and return to your starting point without problems? ₚ Yes ₚ No

If not, what problem did you encounter? _____

11 How would you compare Attachmate's online help to the online help you've used for other products? ₚ Poor ₚ Average ₚ Good ₚ Excellent

Comments: _____
What online help have you used for other PC packages? _____

12 Is the level of detail provided in the online help?

ₚ Too little ₚ About right ₚ Too much

If not enough information, what information is missing?

If too much information, what information do you not need or want?

13 Do you have any other comments about the overall quality of this documentation?

Please tell us about yourself:

Your name _____

Company name _____

Your title /key function _____

Years of PC experience _____

Address _____

_____

Country _____ Phone _____

May we contact you about your comments? ₚ Yes ₚ No

Please send your comments to: Attachmate Corporation
Attn: Information Services
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Alpharetta, Georgia 30202-4199
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