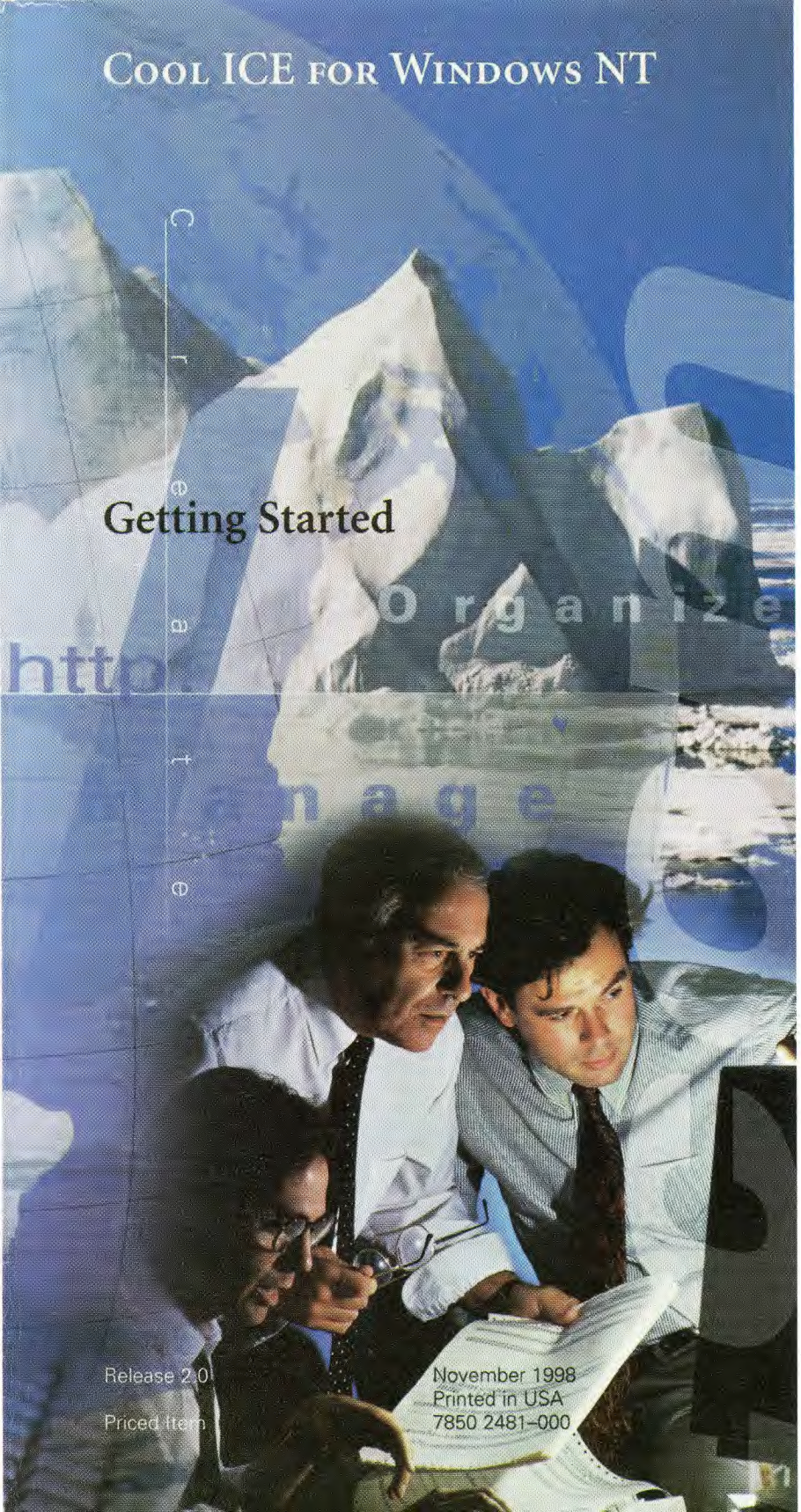
COOL ICE FOR WINDOWS NT



Getting Started

UNISYS

Release 2.0
Priced Item

November 1998
Printed in USA
7850 2481–000

COOL ICE

UNISYS

Getting Started

Cool ICE 2.0 November 1998

Printed in USA
Priced Item 7850 2481–000

Contents

Tables

About This Guide

Purpose

This guide provides an initial source of information for installing and using Cool ICE. Cool ICE is an information processing server based on the Microsoft Component Object Model that creates, organizes, and manages Web-based business applications.

Scope

This guide covers Cool ICE installation, configuration, migration, available documentation, and initial use of the Cool ICE tools. After reading this guide, you will be ready to start using the Cool ICE system and developing applications.

Audience

This guide is primarily for the person who installs Cool ICE. It is also useful for IT managers, administrators, and service developers who require an overview of Cool ICE installation, configuration, administration, and available Cool ICE documentation.

How to Use This Guide

Read Section 1 to learn about Cool ICE and its components. Sections 2, 3, and 4 provide instructions for installing Cool ICE on a server and on a workstation. Section 5 describes how to remove the software from the server and the workstation. After completing installation and configuration, you can use the information in Sections 6, 7, and 8 to get started using the Cool ICE system and to locate additional online documentation.

Organization

This guide consists of the following sections and appendixes:

Section 1. Welcome to Cool ICE

Section 1 provides a brief, high-level description of Cool ICE, discusses the software's capabilities, describes new and changed Cool ICE features, describes Cool ICE components, and details the Cool ICE licensing agreements.

Section 2. Preparing for Installation

Section 2 describes the Cool ICE package contents, lists the software and hardware requirements, and presents installation prerequisites. It also describes considerations for migrating from previous levels of Cool ICE.

Section 3. Installing Cool ICE and Related Software

Section 3 provides general information about installing and configuring the Cool ICE software on a server and on a workstation, It also describes how to install the Universal Data Access components and the WebTx/DGate components.

Section 4. Completing Cool ICE Installation on a Server

Section 4 details the installation and configuration tasks needed to complete the installation of Cool ICE on a server.

Section 5. Starting Cool ICE and Associated Tools

Section 5 describes how to access Cool ICE from a browser. It tells you how to stop and start the Cool ICE system, and how to access ICE Admin, Data Wizard, and the Gateway Configuration Tool on a browser.

Section 6. Removing Cool ICE

Section 6 discusses how to remove Cool ICE from the server and workstation.

Section 7. Administering a Cool ICE System

Section 7 presents the tools an administrator uses to support the system, and describes the related documentation or Help system.

Section 8. Where Do I Go from Here?

Section 8 is a roadmap for finding online information about Cool ICE documentation, service development, and administration tasks.

Appendix A. Restoring the Repository Databases

Appendix A describes how to restore the repository databases.

Appendix B. Using Cool ICE in a Netscape Server Environment

Appendix B discusses using the Cool ICE system with a Netscape Web server.

Appendix C. Alternatives for Creating Virtual Directories

Appendix C describes how to create virtual directories using command scripts or the Microsoft Management Console (MMC) utility.

Related Product Information

Cool ICE Getting Started is part of the Cool ICE library. The following documentation is available to help you use Cool ICE. The way you use the software determines which documents you need. For example, to get an overview of Cool ICE, read the *Cool ICE Technical Overview*. To configure and manage the system, refer to the *Cool ICE Administration Guide*.

Printed Documentation

The following document is available in printed form:

***Cool ICE Getting Started* (7850 2481)**

This guide provides high-level installation, configuration, and overview information. It describes the Cool ICE environment, product considerations, and support information.

Online Documentation

Cool ICE also provides documentation in electronic form on CD-ROM. This documentation is in the form of either Windows Help or HTML format. You can install the documentation on a Windows workstation or on the server and view these documents online.

***Cool ICE Technical Overview* (7850 2473)**

This overview describes the components and concepts related to Cool ICE, and a development process for building Web-based applications with Cool ICE. It also explains the interrelationship of the individual components.

***Cool ICE Developer's Guide* (7850 2465)**

This guide contains the information needed to create Cool ICE services, including native Cool ICE scripted services, ASP scripted services, or data services. It also includes procedures and examples.

***Cool ICE Command Reference* (7832 0769)**

This reference lists the available Cool ICE commands, in alphabetical order, that you can use to write native Cool ICE scripts. It includes formats, field descriptions, and examples.

***MRI Administration and User's Guide* (7846 0391)**

This guide explains how to administer and use the MRI software. It describes the MRI and its component software and describes how to access relational databases through the interface.

***MAPPER System for Windows NT Administration Guide* (7846 0284)**

This guide provides direction for the repository administrator. It includes information about system configuration, database management, user and run registration, and configuration of communications links with other MAPPER systems.

Section 1
Welcome to Cool ICE

This section introduces Cool ICE, discusses the software's capabilities, and provides a brief, high-level description of the product components.

Introducing the Cool ICE Product

Cool ICE is a Web application server and set of development tools that

- Integrate multiple systems and databases.
- Create Web-based forms.
- Maintain a repository of applications and data.

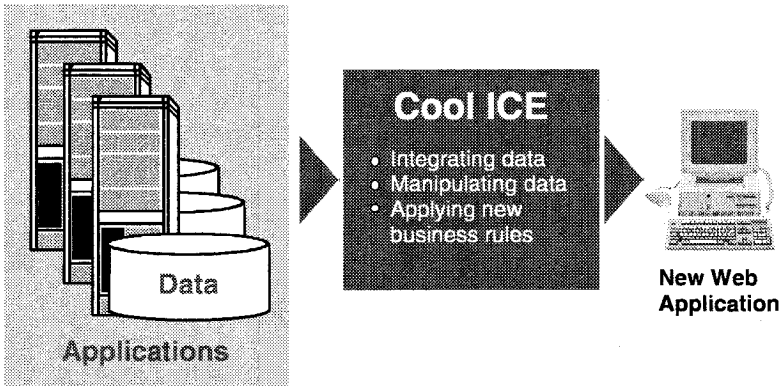
A key component, called the Cool ICE Object, is based on the Microsoft Component Object Model (COM). The Cool ICE tools help application developers create, organize, and manage a mixture of static and dynamic Web-based business applications that are organized as categories of services.

Cool ICE enables developers to

- Integrate an organization's existing back-end databases and applications.
- Manipulate the data pulled from these databases and applications.
- Transform the data so it is available to users from a Web browser and in new Web-based business applications.
- Control access to the organization's Web-based applications and services.

Using Cool ICE, developers can create new Web-based business applications that extend the capabilities of the existing databases and applications beyond their original intent.

The following figure illustrates this capability of Cool ICE.



Existing Databases and Applications

You can organize a typical Cool ICE system by services and categories. A service is an object that, when requested by a browser, performs some business logic and returns a result. A service contains a combination of Hypertext Markup Language (HTML), client-side scripting, and server-side scripting. A category is a container for one or more Cool ICE services.

What's New for Cool ICE 2.0

Here is what's new in the Cool ICE 2.0 release:

- Accessing Cool ICE services with the new Cool ICE Object through active server pages
- Building Cool ICE applications using JavaScript and VB-Script
- Developing query definitions, data services, and data sets from one or more data sources with the Cool ICE Data Wizard
- Creating security profiles for relational tables and columns in relational tables through ICE Admin
- Managing gateways, configurations, and connection pools with the Gateway Configuration Tool
- Modifying Cool ICE scripts and services with the Cool ICE Script Editor (based on Windows)

What's Changed for Cool ICE 2.0

Here is what has changed in the Cool ICE 2.0 release:

- Expanded support for relational databases through an Open Database Connectivity (ODBC) interface
- Simplified installation process
- Uniform Resource Locator (URL) syntax for calling Cool ICE services
- Enhanced documentation
- New and expanded service examples

Cool ICE Business Capabilities

You can use the Cool ICE software to perform the following business tasks:

- Conduct electronic commerce over the Internet in a secure environment.

  You can create Cool ICE services that allow you to sell an endless variety of products, track available product inventory, and provide your customers with vital, up-to-date product information.

  Because you control who can see a particular page or service, Cool ICE services can let you do business in a protected environment.

- Provide seamless access to a wide variety of databases.

  Cool ICE services can access all of the internal databases in your organization and external databases across the world. This feature lets you combine, analyze, and report data in every way imaginable — from a colorful chart to a complex table.

Cool ICE Components

Cool ICE includes the following components.

Cool ICE Object

The Cool ICE Object provides access to the Cool ICE services, state management, and user profiling. Through the Cool ICE Object, developers can create applications that do the following:

- Save and retrieve data sets in the Cool ICE repository.
- Execute Cool ICE native scripts (services) and data services.
- Utilize the Cool ICE security profiling on an active server page. A security profile adds a layer of security so developers can more precisely control who can access a Cool ICE service.
- Execute a data service and retrieve data from an external data source and incorporate that data into the active server page as an ADO record set.
- Upload files from a client workstation to the Cool ICE repository.
- Explicitly open or close a Cool ICE Web session.

Cool ICE Engine

The Cool ICE Engine is an information processing engine that uses Cool ICE scripts to handle tabular and free-form data sets. The engine contains analytical, data access, and application access functions.

Analytical Functions

The analytical functions perform common business data processing operations on whole data sets in a single call to the Cool ICE Engine. For example, these functions enable a developer to

- Sort data on multiple keys.
- Compute multiple subtotals and totals.
- Perform global search and replace operations.
- Perform arithmetic calculations.

Data Access Functions

The data access functions of the Cool ICE Engine give users access to internal Cool ICE data stored in its repository as well as external data managers. Cool ICE supports the following databases:

- ODBC (CORE level, 32-bit drivers)
- Oracle
- Sybase
- Microsoft SQL
- INFORMIX
- Ingres
- Unisys MAPPER database
- Unisys Relational Database Management System (RDMS)
- Unisys A Series Query Language (ASQL)

These functions enable developers to create services that provide a seamless connection to external data.

Application Access

The application access functions access the Online Transaction Processing (OLTP) environment and enable developers to create Open/OLTP clients and servers.

Cool ICE Service Handler

The Cool ICE Service Handler is a component built into the Cool ICE Engine. This component determines which services are requested and ensures that end users have the appropriate privileges to execute the requested service. It uses the information in the Cool ICE repository to verify the service request and to start the actual requested service.

The Cool ICE Service Handler does the following:

- Processes requests for services.
- Verifies that the user has the correct privileges to execute a service.
- Maintains the service error log.
- Formats the output of a service according to the style guide.

Cool ICE Administration (ICE Admin)

ICE Admin is the administrative component used to create, manage, distribute, and monitor static and dynamic services and documents. ICE Admin manages the complex structure of maintaining synchronization between information displayed to the user and links to other information or documents. It significantly reduces administration overhead associated with typical Web sites as they grow and become more complex.

ICE Admin is for service developers and administrators who develop, maintain, and enhance Internet/intranet services. With this tool, a developer and administrator can perform the following tasks:

- Manage user and service security.
- Organize and manage services.
- Manage log information.
- Maintain style guides to ensure a consistent look for all Web pages.
- Configure Web server directories and aliases.
- Configure sign-on settings.
- Manage objects and active server pages.
- Publish static and dynamic documents over the Internet/intranet.
- Add Cool ICE security profiling to an Active Server Pages (ASP) environment. A security profile adds a layer of security so developers can more precisely control who can access a Cool ICE service.

Gateway Configuration Tool

The Gateway Configuration Tool lets you configure how users access a Cool ICE system, including:

- **Connection Pools**. Each connection pool is associated with a Cool ICE site. The Gateway Configuration Tool lets you set the maximum number of users who can simultaneously connect to the site, and to adjust timeouts associated with successful connections. Note that a user may have more than one connection.
- **Configurations**. Each connection pool may have one or more configurations associated with it. Each configuration is an entry point to the Cool ICE system for a different group of users. The parameters you configure determine, for example, if the users are required to sign on with a user name and password.
- **Gateways**. Each configuration includes one or more gateways. A gateway lets users access a virtual directory that contains active server pages. The gateway is selected by a URL, which may contain information about the associated category and service in a query string.

As you create or modify items in the configuration, the Gateway Configuration Tool displays a tree structure that shows the relationship between the gateways, configurations, and connection pools.

Data Wizard

The Data Wizard is a tool that provides a simple, interactive way to build database query definitions. Using the Data Wizard, you can build a query by

- Selecting one or more data sources for the query definition (A data source can be a table from a relational database, an internal Cool ICE repository report, or a data set generated from a script.)
- Selecting specific table columns to include in the query definition
- Refining your query definition using Where, Sort, Analyze, and Calculate command

- Reformatting your data by changing the column order, column size, and column headings, as desired
- Creating a graphic representation of the query definition
- Viewing the definition throughout the entire process of building the query definition

When the query definition meets your requirements, you can save the definition as a Cool ICE service, or as a data set for inclusion into an active server page.

Graphing Engine

The Cool ICE graphing engine allows you to dynamically create business charts from a predefined set of data stored in a temporary area. The service can then display a graph of the data in the browser. You can use either the Data Wizard or a Cool ICE script command to create graphs.

Script Editor

The Cool ICE Script Editor is a Windows program for editing scripts written with the Cool ICE scripting language (Cool ICE Script). Its main features include the following:

- Full syntax color coding that each user can customize
- Ability to set bookmarks or flags
- Find and replace commands
- Undo and redo commands
- Support for OLE drag and drop
- Extensive online Help for each script statement

The Script Editor is available only through ICE Admin. You configure the Script Editor as your default editor when you install Cool ICE.

Cool ICE Client

The Cool ICE Client (MPC) is a user interface program that you use to do the following:

- Start ICE Admin.
- View reports, tables, and other objects contained in the Cool ICE repository.

Repository Administration Tools

Cool ICE uses a central repository to store objects such as services, data, and images. The Cool ICE repository also provides a single point of control for Cool ICE specific Internet/intranet assets, including

- An environment for administering Cool ICE services
- Help with the development of Internet/intranet services
- Capabilities for implementing Cool ICE Internet/intranet services

Repository tools include the Cool ICE Client (MPC) and the MAPPER Administration Tool (MapAdmin).

Cool ICE Licensing

You are licensed to use this product upon opening the product package, and when you respond with Yes to the licensing agreements displayed for each product component during installation.

When you use Cool ICE with another vendor product, for example BEA Tuxedo or /WS, you must adhere to all licensing requirements of the vendor's product, as appropriate. These requirements include any additional licenses introduced through use of Cool ICE in this manner. Consult the vendor's documentation for details of their licensing requirements. This guide does not discuss the details involved in client licensing.

Section 2
Preparing for Installation

This section includes useful information that you need before beginning Cool ICE installation. Topics covered include

- Contents of the Cool ICE Product
- Software Requirements
- Hardware Requirements
- Migrating to a New Cool ICE Level
- Preinstallation Checklist

Contents of the Cool ICE Product

The Cool ICE CD contains the following software components and documentation:

- Cool ICE server software
- Cool ICE Client (workstation) software
  - MAPPER Administration Tool
  - Cool ICE Client components (Cool ICE Client 2.1 and Script Editor)
  - Cool ICE documentation
- WebTx/DGate components (optional)
  - WebTx/DGate
  - DGateAce
  - HTP/ic
- Universal Data Access 1.5 components (optional)

Software Requirements

This section describes the Cool ICE software requirements for the server and the workstation.

Cool ICE Server Requirements

Cool ICE 2.0 requires the following software on your Web server:

- Windows NT Server 4.0 with Service Pack 3 or higher
- Windows NT Option Pack 4 with the Windows Scripting Host component installed
- One of the following Web server software packages:
  - Microsoft Internet Information Server (IIS) 4.0
  - Netscape Enterprise Server 2.0, 3.0, or 3.51 with Chili!ASP 1.2
  - Netscape FastTrack Server 2.0 with Chili!ASP 1.2
- Microsoft Internet Explorer (IE) 4.0 or higher with Service Pack 1
- Monitor set for 256 colors or less if using the graphics server

Workstation Requirements

Cool ICE requires the following software on your workstation for administering or developing Cool ICE services:

- Windows 95, Windows 98, or Windows NT Workstation 4.0
- The Cool ICE Client components (Cool ICE Client and the Script Editor)
- An HTML authoring tool such as Microsoft FrontPage or Notepad
- A Cool ICE developer or administrator needs one of the following Web browsers:
  - Microsoft Internet Explorer (IE) 4.0 with Service Pack 1
  - Netscape Communicator 4.04 or higher with support for JDK1.1 (with Console 1.1.4)
- A Cool ICE end user needs one of the following Web browsers:
  - Microsoft Internet Explorer (IE) 3.*x* or 4.0 with Service Pack 1
  - Netscape Navigator 3.*x* or 4.*x*

As an option, the workstation can include the WebTx/DGateAce software.

Hardware Requirements

This section describes the minimum and recommended hardware requirements for a server and for a workstation.

Server Requirements

Minimum Configuration

Processor: Pentium-based 166 MHz system

Memory: 64 MB

Hard disk: Requires at least 300 MB free space to install the InstallShield setup program and with additional space to install Cool ICE components as described in "Disk Space Requirements."

CD-ROM drive (required only for installation)

Recommended System

Processor: Two processor, Pentium II-based 233 MHz system

Memory: 128 MB

Hard Disk: 1.6 GB

CD-ROM drive (required only for installation)

Workstation Requirements

Minimum Configuration

Processor: 486-based 66 MHz system

Memory: 16 MB

Hard Disk: Requires at least 50 MB free space to install the InstallShield setup program and with additional space to install Cool ICE Client. As an option, need space to install MapAdmin and related documentation.

CD-ROM drive (required only for installation)

Recommended System

Processor: Pentium-based 166 MHz system

Memory: 32 MB

Hard Disk: Requires at least 50 MB free space to install the InstallShield setup program and with additional space to install Cool ICE client. As an option, need space to install the MapAdmin and related documentation.

CD-ROM drive (required only for installation)

Disk Space Requirements

Components Installed on the Server

The following lists the approximate amount of disk space required on the server:

Component	Disk Space
Cool ICE program files (includes MapAdmin, Cool ICE Client, graphics server, Cool ICE graphics server, Cool ICE Editor, *Technical Overview*, and *Getting Started*)	16.5 MB
Online Cool ICE documentation	9.2 MB
Repository working storage	64 MB
WebTx components	15 MB

Components Installed on the Workstation

The following lists the approximate amount of space required on the workstation:

Component	Disk Space
Online Cool ICE documentation	9.2 MB
MAPPER Administration Client (MapAdmin)	1.6 MB
Cool ICE Client Components	3.0 MB
DGateAce software (optional)	0.6 MB

Migrating to Cool ICE Level 2.0

Consider the following when upgrading your software:

- The upgrade from Cool ICE 1.1 to 2.0 migrates and preserves all of your Web applications, services, and information about your services. This includes items such as registered users, security profiles, and Cool ICE services. After you install Cool ICE 2.0, existing Cool ICE 1.1 services will continue to run, with minor modifications, as described in the following points.
- Most Cool ICE applications will require a change to use a standard query string in the URL. Refer to "URL Encoding in Cool ICE" in the *Technical Overview* for more information. As an alternative, you can change the "default.asp" to set "compatibility mode" to true.
- After upgrading your URLs to follow the Cool ICE 2.0 format, users browsing to your Cool ICE site must change their bookmarks or favorites.
- After you install the Cool ICE 2.0 software, you must reload your repository databases as described in "Restoring the Repository Database" in Appendix A.
- Your server cannot include an installation of both MAPPER System for Windows NT and Cool ICE. When you install Cool ICE 2.0, it removes any existing MAPPER software and databases. To use an existing MAPPER database with Cool ICE 2.0, you **must** back it up before installing Cool ICE, as described in the *MAPPER Administration Guide.*
- To reload your MAPPER database, you must initialize the Cool ICE system with your backup database, as described in the *MAPPER Administration Guide.* After initialization completes, upgrade your database using the UPGRADE script. Refer to Appendix A, "Restoring the Repository Database" for further information.

- The format of the Cool ICE database changed between levels 1.1 and 2.0. In addition, the Cool ICE 2.0 installation formats your database files to match the new format. Therefore, you **must** back up your Cool ICE 1.1 database before installing Cool ICE level 2.0 software. Once installation completes, you must reload your repository database as described in Appendix A, "Restoring the Repository Database."
- Your server cannot include installation of both MAPPER System for Windows NT and Cool ICE. Before installing Cool ICE 2.0, you should back up your existing Cool ICE 1.1 database. When you install Cool ICE 2.0, it removes any existing MAPPER software and databases.
- The upgrade installation does not automatically install updated Cool ICE examples. To use these new examples, you must install them from the CD as described on the Cool ICE Web site at http://www.marketplace.unisys.com/coolice/.
- You must use a nonblank space code to represent a space in a cookie. See the *Developer's Guide* for additional information about cookies.

Preinstallation Checklist

Before installing the Cool ICE software and related components, check the following preinstallation items:

√ **Ensure that you have proper administration privileges for installation.**

If you are installing the Cool ICE software and components on a server, make sure that you are using a Windows NT user-id that has Windows NT administrator privileges. In addition, the administrator must have user write privileges as defined through the Windows NT User Manager. (These administrator privileges include the "User Rights Policy" or "Act As Part of the Operating System".

√ **Check installation program disk space.**

Ensure that your hard drive has at least 300 MB to accommodate the Installation setup program. You use this program to install all the Cool ICE components.

√ **Remove existing MAPPER software.**

Before beginning any Cool ICE installation, you should remove any existing MAPPER software from your system. MAPPER System for Windows NT and Cool ICE 2.0 cannot reside on the same server.

If you do not remove this software, the Cool ICE installation wizard removes MAPPER software during installation.

√ **Ensure that your Web server is operational.**

The Microsoft Internet Information Server (IIS) must be installed and running before you can install Cool ICE.

If you are using the Netscape Enterprise Server or Netscape FastTrack Server, you must also have the Chili!ASP product (or equivalent ASP wrapper) installed. As a reference, Appendix B discusses using Chili!ASP 1.2 with Netscape Web servers.

√ **Ensure that Tuxedo Workstation is installed before installing WebTx or DGateAce (optional).**

If you want to use Tuxedo Workstation, you must install it before you install WebTx or DGateAce.

Section 3
Installing Cool ICE and Related Software

This section provides general information about installing and configuring the Cool ICE software components. Topics covered include

- Installation Overview
- Starting the Installation Process
- Installing Cool ICE on a Server
- Installing Cool ICE on a Workstation (optional)
- Installing Universal Data Access Components (optional)
- Installing WebTx/DGate Components (optional)

Installation Overview

You must install the Cool ICE software and related components on a server. You can then install the Cool ICE workstation components on a Windows NT, Windows 95, or Windows 98 workstation. Here is a summary of the steps you must take to install this product.

Cool ICE Server Installation

1. Prepare for Cool ICE server installation.
    a. Determine the type of installation appropriate for your site. You have these choices:
        - Installing Cool ICE 2.0 for the first time
        - Migrating from Cool ICE 1.1 to Cool ICE 2.0
        - Reinstalling Cool ICE 2.0
    b. Back up your existing repository database if you are migrating from an existing Cool ICE release.
2. Install Cool ICE on the server.
3. (Optional) Restore existing repository databases, if upgrading from Cool ICE 1.1, as described in Appendix A.
4. (Optional) Install new examples, if upgrading from Cool ICE 1.1.
5. Complete server setup and configuration, as described in Section 4.
6. (Optional) Install the Universal Data Access components.
7. (Optional) Install WebTx or High-Performance Transaction Processing Interconnect (HTP/ic) components.

Cool ICE Workstation Installation

1. Install the Cool ICE Client components.
2. (Optional) Install the MAPPER Administration Client (MapAdmin).
3. (Optional) Install WebTx/DGateAce software.
4. (Optional) Install the Universal Data Access Components.

Starting the Installation Process

Insert the Cool ICE CD-ROM into the CD-ROM drive of your Windows NT Server or your workstation. Your first step is to access the CD menu and select an installation. The CD menu includes the Cool ICE server software, Cool ICE Client software, Universal Data Access software, WebTx component software, and related information.

You can access the CD menu using either of two methods.

Method 1: Autorun

If your CD-ROM drive is configured for Autorun, the CD menu appears after you insert the CD.

Method 2: From the Windows Explorer

If you are not configured for Autorun, you can access the Cool ICE menu from Windows Explorer. Right-click the Start button, and select Explore. Navigate to your CD-ROM drive, and double-click on Setup.exe from the root directory. The CD menu appears.

Click on an item to start an installation, as described in the following subsections.

Installing Cool ICE on a Server

This section presents the following three installation scenarios for installing Cool ICE on a server:

- Installing Cool ICE 2.0 for the first time
- Migrating from Cool ICE 1.1 to Cool ICE 2.0
- Reinstalling Cool ICE 2.0

Installing Cool ICE for the First Time

Follow this procedure if you are installing the Cool ICE software on a server for the first time.

To prepare for installation

1. Ensure that you exit all Windows programs before beginning a Cool ICE installation.
2. Ensure that your hard drive has sufficient space to install the server components.
3. Ensure that the hard drive containing the Windows temp directory has enough free space to install Cool ICE on your server.

To install Cool ICE on the server

1. From the CD menu, click Install Cool ICE. The installation wizard starts, and the Welcome screen appears.
2. Click Next to display the license agreement. Click Yes to accept the license agreement and to display the User Account Password screens.
3. Enter passwords for the following user accounts on the next three screens:

CoolICEService	Sets up a generic user-id account for all services.
CoolICEGuest	Sets up the user-id to allow a remote Cool system to access ICE Admin.
CoolICEInquiry	Sets up access to Cool ICE directories on the Windows NT server for ICE Admin, as needed.

These user-ids and passwords refer to Windows NT accounts rather than Cool ICE accounts. If the accounts do not exist, you must enter each password twice to verify the password. For existing accounts, you must enter the password once. Make sure that you remember these passwords for future reference.

Note: *The CoolICEService account is a highly privileged account. Be sure to provide an appropriate password.*

4. On the next screen, note the default location of Cool ICE program files and database files. You can change the location by clicking Browse and selecting an alternative drive and folder.

5. Click Next to select the type of installation. Here are your options:

   Typical (default)

   Installs all of the Cool ICE server components and documentation.

   Note: *This installation installs the OLTP workstation software. You must choose the Custom installation option to install OLTP server software through Cool ICE. Alternatively, you can install the OLTP software at a later time by following instructions in "Reinstalling Cool ICE 2.0" in this section.*

   Compact

   Installs the minimum files required for operating the software on Windows NT servers.

   Custom

   Installs the Cool ICE server software and lets you select the following components:

   - Cool ICE online books
   - Technical Overview
   - Cool ICE Client components (Cool ICE Client [MPC] and the Script Editor)
   - OLTP files (OLTP Workstation or OLTP Server)

6. Select the program folder for Cool ICE. The default is Cool ICE.

7. Enter a virtual directory name. The virtual directory name is the logical name of the directory that includes the default active server page. The default virtual directory name is Cool-ICE.

   Note: *This virtual directory name appears in the URL that points to your Cool ICE system. The URL for the Cool ICE system has this format:*

   ```
   http://your-computer-name/your-virtual-directory-name/
   ```

   Do not use spaces in a virtual directory name. The Cool ICE system does not clearly display this name with spaces in the URL.

8. Follow the installation wizard prompts to complete the software installation. After installation is complete, a shortcut for each component or document appears in the new Cool ICE program group.

To complete the installation

Refer to Section 4,"Completing Cool ICE Installation on a Server," to finish the installation, set up users and services, configure the system, and verify software installation.

Migrating from Cool ICE 1.1 to Cool ICE 2.0

Follow this procedure if you already have Cool ICE 1.1 installed and you want to upgrade your system to Cool ICE 2.0.

Note: *This migration preserves all of your Cool ICE applications, services, and information about your services. This includes items such as registered users, security profiles, and Cool ICE services. After you install Cool ICE 2.0, you must modify the URLs for existing Cool ICE 1.1 services. See the* Developer's Guide *and "Migrating to a New Cool ICE Level" in Section 2 for additional migration considerations.*

To prepare for installation

1. Cool ICE 2.0 includes an OLTP example that requires you to install the new WebTx/DGate software. Refer to "Installing WebTx/DGate" in this section for instructions. To preserve your Cool ICE 1.1 repository database, you must back up your database files before migrating to Cool ICE 2.0. The installation process will overwrite your database files. Refer to the *MAPPER Administration Guide* for backup (purge) procedures.
2. Ensure that you exit all Windows programs before beginning a Cool ICE installation.

To migrate to Cool ICE 2.0 from Cool ICE 1.1

1. From the CD menu, click Install Cool ICE. The installation wizard starts, and the Welcome screen appears.
2. Click Next. The License Agreement screen appears.
3. Click Yes to accept the license agreement, and click Next to display the Existing Installation screen.

   This screen lets you know that the installation wizard detected a previous Cool ICE 1.1 installation. The installation wizard warns you that this installation upgrades the software only. Click Next to display the Installation Type screen.

4. Select the type of installation. Here are your options:

   Typical (default)

   Installs all of the Cool ICE server components and documentation.

   Note: *This installation only installs the OLTP workstation software. You must choose the Custom installation option to install OLTP server software through Cool ICE.*

   Compact

   Installs the minimum files required for operating the software on Windows NT servers.

   Custom

   Installs the Cool ICE server software, and lets you select the following components:

   - Cool ICE online books
   - Technical Overview
   - Cool ICE Client components (MPC and the Script Editor)
   - OLTP files (OLTP Workstation or OLTP Server)

5. Select the program folder for Cool ICE. The default is Cool ICE.

6. Enter a virtual directory name. The virtual directory name is the logical name of the directory that includes the default active server page. The default virtual directory name is Cool-ICE.

   Note: *This virtual directory name appears in the URL that points to your Cool ICE system. The URL for the Cool ICE system has this format:*

   ```
   http://your-computer-name/your-virtual-directory-name/
   ```

   Do not use spaces in a virtual directory name. The Cool ICE system does not clearly display this name with spaces in the URL.

7. Follow the installation wizard prompts to complete the software installation. After installation is complete, a shortcut for each component or document appears in the new Cool ICE program group.

To complete the installation

1. Refer to Appendix A, "Restoring the Repository Database," for information about reloading and upgrading your Cool ICE 1.1 database.
2. After reloading and upgrading your database, make a new backup copy of your updated repository database, as described in the *MAPPER Administration Guide.*
3. To automatically start Cool ICE whenever you restart your computer, use MapAdmin to check the "Automatically start at system boot" check box on the Site Properties Start-up page. See *MapAdmin Help* for additional information.
4. Refer to Section 4,"Completing Cool ICE Installation on a Server," to finish the installation, set up users and services, configure the system, and verify software installation.
5. The migration installation does not install Cool ICE 2.0 examples. You must install the examples from the CD, as described on the Cool ICE Web site at http://www.marketplace.unisys.com/coolice/.

Reinstalling Cool ICE 2.0

Follow this procedure if you already have Cool ICE 2.0 installed and you need to reinstall your software. With this option, you do not need to remove Cool ICE from your system before beginning this procedure.

Note: *As an alternative to this procedure, you can back up your database, remove Cool ICE 2.0 from your system, as described in "Removing Cool ICE," and perform a completely new installation. You can then initialize the database using your database backup. Refer to the* MAPPER Administration Guide *for details.*

To prepare for installation

Ensure that you exit all Windows programs before beginning a Cool ICE installation.

To reinstall Cool ICE 2.0

1. From the CD menu, click Install Cool ICE. The installation wizard starts, and the Cool ICE for Windows NT maintenance screen appears.
2. Click one of the following buttons:

   Note: *The first three options apply to reinstallation; the first and last options apply to product removal.*

   Add/Remove

   This option lets you add or remove specific Cool ICE components. You can choose to install or remove the following:

   - Cool ICE online books
   - Technical Overview
   - OLTP files (workstation or server)
   - Client components

   Check the box to install an option, and uncheck the box to remove an option.

   Refer to Section 6, "Removing Cool ICE," for additional information about this option.

   Reinstall Software

   Choose this option to repeat the last Cool ICE installation. If you select this option, the installation wizard installs the software without replacing your database files. The installation wizard also reconfigures all of the Windows NT registry settings and reinstalls all services and virtual directories.

   Reinstall All

   Choose this option to repeat the last Cool ICE installation. If you select this option, the installation wizard installs the software and replaces your database files with the release database files.

   Remove All

   Choose this option to remove all previously installed components other than the repository database. Refer to Section 6, "Removing Cool ICE," for additional information about this option.

To complete the installation

1. Refer to Section 4,"Completing Cool ICE Installation on a Server," to finish the installation, set up users and services, configure the system, and verify software installation.
2. This installation does not install Cool ICE 2.0 examples. You must install the examples from the CD, as described on the Cool ICE Web site at http://www.marketplace.unisys.com/coolice/ to make the Cool ICE 2.0 examples available on your system.

Installing Cool ICE Workstation Components

The Cool ICE Workstation includes the following components:

- Cool ICE Client components

  These components include the Cool ICE Client (MPC) software and the Cool ICE Script Editor. The components are useful for both the administrator and Cool ICE application developer. You use this software to access the ICE Admin program, the Cool ICE database repository, and the Script Editor.

- MAPPER Administration Client

  This includes the MapAdmin software and the *MAPPER Administration Guide*. These components are useful only for the Cool ICE developer and administrator. You use this software for administering the Cool ICE database repository, Cool ICE engine, and network communications.

- Cool ICE Documentation

  This documentation includes the following online information:

  - *Cool ICE Command Reference*
  - *Cool ICE Developer's Guide*
  - *MRI Administration and User's Guide*
  - Cool ICE FAQ (Frequently Asked Questions)
  - *Cool ICE Getting Started*
  - Cool ICE Home (link to the Cool ICE Web site)
  - *Cool ICE Technical Overview*

You can install these components or documentation on either a Windows NT workstation, a Windows 95 workstation, or a Windows 98 workstation.

Installing the Cool ICE Client Components

To install the Cool ICE Client components

1. From the CD menu, click Install Cool ICE Clients. The Client Components browser window appears.
2. Click Install Cool ICE Client Components. The installation wizard starts, and the Welcome to Cool ICE Client Components installation screen appears.
3. Follow the installation wizard prompts to install the software. After installation is complete, a shortcut for the Cool ICE Client appears in the program group.

To complete the installation

1. Create a script that starts the Cool ICE Client (MPC). From MPC, you can access Cool ICE Admin and Cool ICE scripts. Do the following:
2. Start the Cool ICE Client.
3. Choose Script Administration and Create Script from the File menu. The User Script dialog box appears.
4. Type the name of the script you are creating in the User Script Name field. Script names can be up to eight characters in length and cannot contain special characters (such as spaces, colons, or periods).
5. Click OK. The Script Selection dialog box that lists available master script templates appears.
6. Select the NT template, and click OK.
7. Fill in the fields with information for your script, and click OK. Refer to the *ICE Admin Help* for additional details.

Installing the MAPPER Administration Client

Note: *This component is required only if you want to administer your Cool ICE repository from a remote workstation.*

To install the MAPPER Administration Client

1. From the CD menu, click Install Cool ICE Clients. The Client Components browser window appears.
2. Click Install MAPPER Administration Client. The installation wizard starts, and the Welcome to MAPPER Administration Client installation screen appears.
3. Follow the installation wizard prompts to install the software. After installation is complete, a shortcut for the MAPPER Administration (MapAdmin) program and a shortcut for the *MAPPER Administration User's Guide* appear in the new program group.

To complete the installation

MapAdmin comes ready to use. If necessary, follow the instructions presented in the associated *MapAdmin Help* system to set up connections to remote databases.

Installing Universal Data Access Components

Use this procedure to install the Universal Data Access components. These components must be installed if your Web services or the Data Wizard needs to access databases through ODBC.

Note: *The Universal Data Access Components are standard Microsoft drivers for ODBC access. You can obtain the latest software levels directly from Microsoft, if desired.*

To prepare for installation

Note the following before starting this installation:

- Check to see if your system already includes these components. If so, you do not need to install them a second time.
- Ensure that all applications are closed and all ODBC database connections are terminated.
- Ensure that all applicable database software is properly installed and correctly configured. Refer to the database software vendor documentation for instructions.

To install the Universal Data Access components

1. From the CD menu, click Install Universal Data Access 1.5 Components. The installation wizard starts extracting the software and initializes the setup program.
2. Click Yes to accept the license agreement and start the installation program.
3. Follow the installation wizard prompts to install the software. You should select the typical installation. After installation is complete, restart your computer to finish the installation process.

Installing WebTx/DGate Components

Use this procedure to install the WebTx/DGate components for access to OLTP services. These components include

- **WebTx/DGate**

  The WebTx/DGate component provides access to OLTP services from Cool ICE services on a Windows NT server.

- **DGateAce**

  The DGateAce tool lets you create the specific COM object that accesses a specific OLTP service

- **HTP/ic**

  The High Performance Interconnect (HTP/ic) application lets you access Open/OLTP applications on ClearPath systems.

Installing WebTx/DGate

To prepare for installation

Note the following before starting a WebTx/DGate installation:

- WebTx/MAPGate, which was used in Cool ICE 1.1, is not compatible with WebTx/DGate components. Before installing the Cool ICE 2.0 WebTx/DGate components, you must remove the WebTx/MAPGate software.
- Do not install WebTx in a directory name that contains spaces, for example, Program files.
- If you are going to use Tuxedo/ws, you must install Tuxedo Workstation before installing any of the WebTx/DGate components.

  Note: *When using Cool ICE with another vendor product such as BEA Tuxedo, you must adhere to all licensing requirements of the vendor's product, as described in Section 1. Consult the vendor's documentation for licensing requirements.*

- The installation process copies over any previous WebTx/DGate components.
- If you already have a version of WebTx/DGate installed, you should stop this service before starting the installation. If you do not stop the WebTx/DGate service, the installation program cannot install system files or update shared files if they are in use.

To install WebTx/DGate

1. From the CD menu, click Install WebTx Components. The WebTx Components browser window appears.
2. Click Install WebTx. The installation wizard starts, and the Welcome to WebTx installation screen appears.
3. Follow the installation wizard prompts to install the software. Be sure to select the Microsoft Internet Information Service (IIS) 4.0 as your Web server.
4. During installation, the wizard prompts you to select a Demo to install. This demo lets you fully utilize the OLTP Employee Demo example. This example is in the Cool ICE Examples category on the Cool ICE main menu. You have these options:
   a. Install the demo that uses HTP/ic, as described in the following section. (This is the default demo installation.) The HTP/ic software is available on the CD.
   b. Install the demo that uses BEA Tuxedo/ws. This software is not available on the CD and must be purchased separately.
   c. You can choose not to install the demo at all. If you make this choice, you cannot fully utilize the OLTP Employee Demo example.
4. After installation is complete, a shortcut for the WebTx/DGate software appears in the start group.

To complete the installation

1. You must restart the computer after installing the WebTx/DGate software.
2. Refer to the associated WebTx readme file for information about configuration of the WebTx ISAPI filter with IIS 4.0.
3. The EmpGate gateway must be running to fully utilize the OLTP Employee Demo example. You can start this gateway using the WebTx Administration component.

Installing DGateAce

To install DGateAce

1. From the CD menu, click Install WebTx Components. The WebTx Components browser window appears.
2. Click DGateAce. The installation wizard starts, and the Welcome screen appears.
3. Follow the installation wizard prompts to install the software. You should select the typical installation.

To complete the installation

1. You must restart the computer after installing the DGateAce software.
2. Refer to the associated readme file for information about configuration.

Installing HTP/ic

To install HTP/ic

1. From the CD menu, click Install WebTx Components. The WebTx Components browser window appears.
2. Click Install HTP/ic. The installation wizard starts, and the Welcome screen appears.
3. Choose the file location for the software.
4. Enter the type of ClearPath System you want to connect with. Your options are ClearPath IX or ClearPath NX.
5. Choose if you want to use Microsoft Transaction Server (MTS).

   Note: *If you choose MTS, refer to the MTS Integration Guidelines" in the HTP/ic documentation.*

7. As an option, you can configure HTP/ic to start automatically.
8. Follow the installation wizard prompts to complete installing the software.

To complete the installation

1. You must start HTP/ic before you can use this software. Do the following:
   a. Select HTPic Administrator from the HTP/ic program group. The HTP/ic Administrator screen appears.
   b. Select Operations from the menu, and then select Start HTP/ic Service.
   c. Select Exit to complete this procedure.
2. Refer to the associated readme file for information about configuration.

Section 4
Completing Cool ICE Installation on a Server

This section describes the installation and configuration tasks needed to complete the server installation. Depending on the type of installation (new, migration, or reinstallation) and your site's requirements, you may need to do all or just some of these tasks. Read over this section before making your choices. Topics covered include

- Creating a Cool ICE Client (MPC) Script
- Setting Up Cool ICE Users
- Making System Services Available to Users
- Registering Your Virtual Directories and Active Server Pages (ASPs)
- Specifying a Different Web Site
- Setting Up Database Connections through ICE Admin
- Checking Your Software Installation

Note: *Before completing and verifying Cool ICE software installation, you may need to restore your repository database and install new examples. Appendix A describes how to restore your repository database. You must install the examples from the CD, as described on the Cool ICE Web site at http://www.marketplace.unisys.com/coolice/.*

Creating a Cool ICE Client (MPC) Script

You must create a Cool ICE Client (MPC) script to use the ICE Admin system. This allows your MPC to connect with the Cool ICE system. Do the following:

To create the script

1. Start the Cool ICE Client.
2. Choose Script Administration and Create Script from the File menu. The Create New Script dialog box appears.
3. Select NT as the Template Type from the template list.
4. Enter a name for the script you are creating in the Script Name field. Script names can be up to eight characters and cannot contain special characters (such as spaces, colons, or periods.)
5. Click OK. The Script dialog box appears. Enter these values in the following fields:
   a. NT Login: CoolICEGuest
   b. Site Letter: A
   c. User-id = MAPCOORD
   d. MAPPER Department: 2
   e. MAPPER Run: ICEADMIN (optional)

      Note: *If you enter ICEADMIN, MPC starts ICE Admin at script startup.*

   f. Host Address: *Your IP address or Cool ICE server name*
   g. NT Password: *Value specified for CoolICEGuest during installation.*
   h. MAPPER Password: *Leave this field blank.*

   Do not change any of the other fields.
6. Click OK. Refer to the *Cool ICE Client Help* for additional details about scripts.

To execute the script

1. Start the Cool ICE Client (MPC).
2. Select File, Open Session, and select your Cool ICE script.
3. If you have created a script as described in Section 4, the ICEADMIN script should automatically start. This script connects to the Cool ICE system and starts the ICE Admin program.
4. If your Cool ICE script does not automatically start ICE Admin, you can manually start it. Enter ICEADMIN in the upper left corner of the window, or select ICEADMIN from the Run menu.

Registering Cool ICE Users

Before you can develop Cool ICE applications, you must register users and assign security profiles as needed. Do the following to register users:

1. Access ICE Admin through the Cool ICE Client.
2. Select Register Users from the Security menu.
3. Click Add to register a user. The Add User screen appears.
4. Fill in the User Id, Department, Password, and Confirm Password fields to register a new user. Alternatively, you can select an existing user-id from the drop-down box.
5. Click OK to complete user registration.
6. If you migrated from Cool ICE 1.1, step 5 may produce the following message:

   ```
   SignOn is configured to hide department number and therfore all
   valid Cool ICE users must be registered in department
   <department number>.
   ```

   To prevent ICE Admin from displaying this message, use ICE Admin to do the following:

   a. Select SignOn Settings from the Options menu.

   b. Select Request Department Number.

   c. Remove the Guest User-id information.

   d. Click OK.

The next section describes how to assign users to security profiles by making system services available.

Making System Services Available to Users

Your Cool ICE system includes a set of system services aimed at different groups of people performing different roles. Some of these system services have a predefined set of security profiles.

Before Cool ICE becomes available for general use, you must determine which users should be allocated security profiles to allow access to secure system services.

Following is a list of system services delivered with Cool ICE 2.0 and their predefined security profiles. The system services are located in the ICE Admin category.

Service Title	Service Name	Security Profile
Cool ICE Home Page	Home	None
Cool ICE Title Frame	Title	None
Cool ICE List of Projects Frame	LOC	None
Cool ICE Introduction Frame	Intro	None
Cool ICE Table of Contents Frame	LOS	None
Cool ICE Sign-On Form	SignOn	None
Cool ICE Service Script Viewer	Source	ICE-Develop
Cool ICE Service Error Details	SvcDump	ICE-Develop
Cool ICE Image Viewer	DspImg	ICE-Admin/ICE-Develop
Cool ICE Change Password Form	Change-Password-Form	
Cool ICE Change Password Service	Change-Password	
Cool ICE Sign-Off Service	SignOff	
User-Controlled Sign-On Form	UserSignOn	ICE-Admin
User-Controlled Sign-On Service	UserControl	ICE-Admin
Category Default Icon for Menu Display	CategoryIcon	

Service Title	Service Name	Security Profile
Service Default Icon for Menu Display	ServiceIcon	
Powered by Cool ICE GIF Image	ICEPower-Img	
Change Password GIF Image	Change-Password-Img	
Sign-Off GIF Image	SignOff-Img	
Exclamation Mark Image	Exclamation-Img	
Bullet Image	Bullet-Img	
Cool ICE Splash Image	IceSplash-Img	
Search Form for Searching Cool ICE Repository	SearchForm	
Search Result	SearchResult	
Search Form GIF Image	Search-Img	
Tips for Searching the Cool ICE Repository	SearchTips	
Event Viewer GIF Image	Event-Viewer-Img	
Cool ICE Event Viewer	EventViewer	ICE-Admin/ICE-Develop
Cool ICE Sign-On Allowing Password Change	SignOnPwdChange	
Cool ICE Database Report Viewer	ViewDbRpt	ICE-Admin/ICE-Develop
Cool ICE Data Wizard	DataWizard	ICE-Develop

Notes:

- *Services with the ICE-Admin security profile are only for the Cool ICE administrator.*
- *Services with ICE-Develop security profile are only for developers of Cool ICE services.*
- *Services with no security profile are for general use, and must be available to all users.*

To make a service available to a user

Note: *Before starting this procedure, ensure that the user is registered with ICE Admin, as described previously in this section. In addition, the security profile must exist. See* ICE Admin Help *for additional details.*

1. Start the Cool ICE Client.
2. Select Profiles from the Security menu. The Security Profiles screen appears.
3. Highlight the security profile, for example ICE-Admin or ICE-Develop, from the list of available security profiles.
4. Click the Allocate Profile screen. The Security Profile Allocation screen appears.
5. Highlight the user-id from the Not Allocated to list.
6. Click Add.
7. The user is now able to access all applications available to a profile group member. See *ICE Admin Help* for more information about security profiles.

Registering Your Virtual Directories and ASPs

The default Cool ICE 2.0 installation creates a virtual directory and a default active server page. You can use this default directory and active server pages to help you begin developing Cool ICE applications.

If you need to create additional virtual directories and physical active server pages other than the installation default, you must create the directory, establish a gateway connection for the directory, register the virtual directory with ICE Admin, and register any active server pages as ASP objects with ICE Admin, as described in the following steps:

To create virtual directories and active server pages

1. Use Microsoft Management Console (MMC) to create the virtual directory. Refer to the *MMC Help* for instructions. A virtual directory is associated with a physical directory. You may want to create a new physical directory, or you can use an existing one.
2. Establish a gateway connection, as follows:
   a. Start the Gateway Configuration Tool by entering
      `http://server-name/CISystem/Gatetool`
   b. Click Start the Gateway Tool
   c. Create a gateway connection for the virtual directory. To do this, follow the *Gateway Configuration Tool Help* instructions for configuring a new gateway connection. The name of the new gateway must match the name of the virtual directory.
3. Register the virtual directory as an ASP directory through ICE Admin, as follows:
   a. Access ICE Admin through the Cool ICE Client.
   b. Select Options, Directories, and ASP Directory Alias. The Server ASP Directory Aliases screen appears.
   c. Click Add. The Add ASP Directory Alias screen appears.
   d. Enter the virtual directory name in the Alias field.
   e. Enter the physical location of the virtual directory in the Server ASP Directory field.
   f. Click OK.

   Refer to the *ICE Admin Help* for additional information about fields.

4. Register any active server pages in the virtual directory as objects through ICE Admin, as follows:

   a. Access ICE Admin through the Cool ICE Client.

   b. Select File, New repository object, and Active Server Page. The New ASP Options screen appears.

   c. Select an option. See the *ICE Admin Help* for details.

5. Complete the registration by associating the active server page with a virtual directory and by providing other attributes. See the *ICE Admin Help* for details.

Specifying a Different Web Site

Use this procedure during the setup process if you have multiple Web sites installed in Microsoft Internet Information Server (IIS) and need to select a different site for the Cool ICE gateway. By default, the installation program chooses the first site (domain). There are scripts on the CD that enable you to create the virtual directories on other Web servers.

To create virtual directories on a Web server other than the default Web server

1. On the CD, find the ...\install\WebVDCmd\ directory. This directory contains the scripts that create virtual directories on the selected Web server.
2. Open the CIDefault.cmd script file and make the following changes:

Change	To
`"IIS://localhost/W3SVC/1/Root"`	`"IIS://localhost/W3SVC/`*number of your selected web server*`/Root"`
`"X:\Cool_ICE"`	*"your Cool ICE installation path"*
`"Your Virtual Directory Alias Name goes here"`	*"type your virtual directory name"*

3. Save the CIDefault.cmd file in a folder on your hard drive.
4. Execute the CIDefault.cmd file.
5. Open the CISystem.cmd script file and make the following changes:

Change	To
`"IIS://localhost/W3SVC/1/Root"`	`"IIS://localhost/W3SVC/`*number of your selected web server*`/Root"`
`"X:\Cool_ICE"`	*"your Cool ICE installation path"*

6. Save the CISystem.cmd file in a folder on your hard drive.
7. Execute the CISystem.cmd file. The virtual directory setup is complete.

Setting Up Database Connections through ICE Admin

You must configure a database connection for each database you need to access when executing Cool ICE services. Refer to *ICE Admin Help* and the documentation for the database software for additional information.

Checking Your Software Installation

After completing system installation and configuration, do the following to verify that Cool ICE is operational on your system.

Note: *Before completing and verifying Cool ICE software installation, you may need to restore your repository database and install new examples. You must install the examples from the CD, as described on the Cool ICE Web site at http://www.marketplace.unisys.com/coolice/.*

1. Start your Web browser, and enter the URL for the Cool ICE main menu, for example,

   ```
   http:/your-machine-name/your-virtual-directory-name/
   ```

6. Click the Cool ICE Examples category. A list of example services appears in the browser window.

7. Try several examples, such as Example 1 and Example 14.

Section 5
Starting Cool ICE and Associated Tools

After installing and configuring Cool ICE, you are now ready to access the Cool ICE system. This section describes how to access Cool ICE software and tools. Topics covered include

- Starting Cool ICE for the First Time
- Stopping and Restarting Cool ICE
- Accessing Other Cool ICE Tools

Starting Cool ICE for the First Time

After installation and configuration are complete, enter the following URL to access Cool ICE from the browser:

```
http://your-machine-name/your-virtual-directory-name/
```

The Cool ICE main menu appears.

Note: *You can add this URL to your home page as a hyperlink to your Web server.*

Stopping and Restarting Cool ICE

If you need to stop and restart Cool ICE , perform the following procedures:

To stop the Cool ICE system

1. Start the Windows NT Control Panel.
2. Select Services.
3. Select the Cool ICE Controller service, and click Stop.
4. Select the Cool ICE Graphics Service, and click Stop.
5. Select the IIS Admin Service, and click Stop.

6. The Windows NT system asks if you want to also stop the WWW Service. Click Yes.
7. Select the MPR Controller service, and press Stop.

If any of these steps fail, reboot your Windows NT Server.

To restart the Cool ICE system

1. Start the Windows NT Control Panel
2. Select Services.
3. Select the World Wide Web Publishing Service, and press Start.
4. Select the MPR Controller service, and press Start.
5. Select the Cool ICE Controller service, and press Start.
6. Select the Cool ICE Graphics service, and press Start.

To create a .cmd file

As an alternative, create a .CMD file with the following lines. Execute this file from a command prompt to stop and restart the Cool ICE system:

```
NET STOP "Cool ICE Controller"
NET STOP "Cool ICE Graphics Service"
NET STOP "IIS ADMIN Service"
NET STOP "MPR Controller"


NET START "World Wide Web Publishing Service"
NET START "MPR Controller"
NET START "Cool ICE Controller"
NET START "Cool ICE Graphics Service"
```

Accessing Other Cool ICE Tools

This section describes how to access other related Cool ICE tools.

Starting ICE Admin

ICE Admin is the administrative module used to create, manage, distribute, and monitor static and dynamic services and documents.

To start ICE Admin

1. Start the Cool ICE Client (MPC).
2. Select File, Open Session, and select your Cool ICE script.
3. If you have created a script as described in Section 4, the ICEADMIN script should automatically start. This script connects to the Cool ICE system and starts the ICE Admin program.
4. If your Cool ICE script does not automatically start ICE Admin, you must manually start it. Enter ICEADMIN in the upper left corner of the window, or select ICEADMIN from the Run menu.

Starting the Data Wizard

The Data Wizard is a tool that provides a simple, interactive way for developers to build database query definitions.

Note: *You must be registered as a user and belong to the ICE-Admin/ICE-Develop security group before you can start the Data Wizard. If you are not properly registered, you will not be able to view the Data Wizard from the Cool ICE main menu.*

To start the Data Wizard

1. Sign on to your Web browser.
2. Enter the URL for the Cool ICE main menu. For example

   ```
   http://machine-name/your-virtual-directory-name/
   ```

3. Click on the Data Wizard button to start the wizard.

Starting the Gateway Configuration Tool

The Gateway Configuration Tool lets you configure how users access a Cool ICE system.

Notes:

1. *To access the Gateway Configuration Tool, you must provide an NT user-id and password that exist on the server where Cool ICE is installed. This user-id must have administrator privileges.*
2. *If you are accessing the Gateway Configuration Tool from a remote site, you may need to use one of the following formats when providing the NT user-id.*

   ```
   Remote-machine-name\NT user-id
   .\NT user-id
   ```

To start the Gateway Configuration Tool

1. Sign on to your Web browser.
2. Enter the URL for the Configuration Gateway Tool.

   ```
   http://machine-name/CISystem/GateTool/
   ```

Section 6
Removing Cool ICE

This section describes how to remove Cool ICE from the server and workstation. In addition, this section describes other cleanup routines. Topics covered include

- Removing Cool ICE from the Server
- Removing Cool ICE from the Workstation
- Follow-up Tasks

Removing Cool ICE from the Server

There are two ways to remove the Cool ICE software from the server:

- Installation Wizard Software Maintenance Routine
- Windows Add/Remove Programs

To prepare for removing Cool ICE

1. To preserve your repository database, back up your database files before beginning this procedure, as described in the *MAPPER Administration Guide.*
2. Ensure that Cool ICE is not running. Use MapAdmin to stop Cool ICE.

To remove Cool ICE with the installation wizard

1. From the Cool ICE installation menu, click Install Cool ICE. The installation wizard starts, and the Cool ICE installation maintenance program screen appears.
2. Click one of the following buttons:

   Add/Remove

   Lets you remove selected components. The Select Components screen appears. Uncheck any of the following components you wish to remove from the system:

   - Cool ICE Online Books
   - Technical Overview
   - Cool ICE Client Files (Cool ICE Client and Script Editor)
   - OLTP Files

   Note: *You must select Remove All to remove the Cool ICE software.*

   Remove All

   Removes all of the installed components. Select this menu item to remove all of the Cool ICE software and documentation from your system.

To remove Cool ICE through the Windows control panel

1. From the Windows NT taskbar, click Start, and then click Settings.
2. Click Control Panel, and then click Add/Remove programs.
3. Highlight Cool ICE.
4. Click the Add/Remove button. Windows displays a confirmation message. Click Yes to continue the removal process.
5. The installation wizard removes the program.

Removing Cool ICE from the Workstation

To remove Client components from the workstation

1. From the Windows NT or Windows 95 taskbar, click Start, and then click Settings.
2. Click Control Panel, and then click Add/Remove programs.
3. Highlight one of the following items:
   - Cool ICE Client components
   - Cool ICE Documentation
4. Click the Add/Remove button. Windows displays a confirmation message. Click Yes to continue the removal process.
5. The installation wizard removes the selected program.
6. Repeat steps 2 through 5 for each item you want to remove from the workstation.

Follow-up Tasks

After removing the Cool ICE components from a server or workstation, perform the following tasks:

1. Delete the Cool ICE database directory and files.
2. Delete other miscellaneous files., as required.

   Following is a list of directories and files not automatically deleted from the Cool ICE server.

Directory Path	Files
CISITE\A\	All
CISITE\mri_rem\	mri_msg mrimcfg mirparm
CISITE\tmp\	keeptmp
Cool_ICE	CIAsp.dll CICfgCtl.dll CIEngineps.dll cioledbdp.dll CISesCtkps.dll ICEAlias.txt
Cool_ICE\Graphics\TMP	~Driller.log ~Gss.log

3. Verify that the Windows NT registry is clear.

Section 7
Administering a Cool ICE System

Providing administration support for the Cool ICE system is an important task. This section describes the various tools that an administrator uses to support the system along with the related documentation or Help system.

Providing Administration Support

Administering Cool ICE requires the use of the following tools:

- ICE Admin
- Cool ICE Client (MPC)
- MAPPER Administration Tools
- Gateway Configuration Tool
- MRIDBA
- DGate Administration Tool
- ICESETUP
- Web browser (viewing logs)

Note: *Refer to the* Technical Overview *for additional information about the Cool ICE tools.*

Administration Summary

The following table describes which Cool ICE tool you can use to perform specific administration tasks in a Cool ICE system. The table also refers you to documents containing detailed procedures for each task.

Table 7–1. Cool ICE Administration Tools

Administration Tool	User Access	Task	Online Document
ICE Admin	Cool ICE Client	Set up a Cool ICE Application Modify a category, object, or service Delete a Cool ICE application Customize a Cool ICE system Set system availability Create and assign security profiles Register users Schedule background cleanup runs Configure database connections Expire objects or service View logs	*ICE Admin Help*
MapAdmin	MAPPER Administration Program Group	Secure the repository Perform Troubleshooting Enable auditing Back up repository data Set network connection	*MAPPER NT Administration Guide* *MapAdmin Help*

Table 7–1. Cool ICE Administration Tools

Administration Tool	User Access	Task	Online Document
Gateway Configuration Tool	Gateway Configuration Group	Create configuration pools Create configurations Set up gateways	*Gateway Configuration Tool Help*
MRIDBA	Cool ICE Client	Set up local and remote external database connections through MRI Set up RDI access to remote and local databases	*MRI Administration and User's Guide Help*
ICESETUP	Cool ICE Client	Upgrade or reinstall a Cool ICE administration component Create a new Cool ICE Administration component	*ICESETUP Help*
DGate Administration	Web/Tx Administration	Administer DGate connections	*DGate User's Guide Help*
Web browser	Computer desk top or browser program group	View Cool ICE usage logs	——

Section 8
Where Do I Go from Here?

This section presents a roadmap for finding helpful information about Cool ICE in online documentation and on the Web. It includes the following topics:

- Finding Documentation Online
- Locating Topics in Cool ICE Documentation
- Viewing Cool ICE Information on the Web

Finding Documentation Online

The following table summarizes the Cool ICE documentation that is available in electronic form on the CD-ROM.

Table 8–1. Cool ICE Documentation on the CD

Online Document	File Name	Type	User Access
Cool ICE Getting Started	GetStrt.doc	Doc	**Server:** CD menu **Workstation** Documentation Program group
Cool ICE Technical Overview	index.htm and many others	HTML	**Server:** Start menu — Program Group Icon **Workstation:** Documentation Program group

Table 8–1. Cool ICE Documentation on the CD

Online Document	File Name	Type	User Access
Cool ICE Developer's Guide	cidevgd.hlp and .cnt, gloss.hlp	WinHelp	**Server:** Start menu — Program Group Icon **Workstation:** Documentation Program group
ICE Admin HELP	coolice.hlp, coolice.cnt, gloss.hlp	WinHelp	From ICEAdmin — Help menu, Help buttons
ICESETUP Help	Embedded in ICESETUP script	Cool ICE script	From ICESETUP Help buttons
Cool ICE Data Wizard Help	various .htm files	HTML	From Data Wizard - Help ON button
Cool ICE Script Editor Help	ciedit.hlp and ciedit.cnt	WinHelp	From Script Editor — F1 or Help menu
Cool ICE Examples	various .htm files	HTML	Start Examples on Cool ICE main menu
Cool ICE Command Reference	78320769.hlp and 78320769.cnt	WinHelp	**Server:** Start menu — Program Group Icon From Script Editor **Workstation** Documentation Program group

Table 8–1. Cool ICE Documentation on the CD

Online Document	File Name	Type	User Access
MRI Administration and User's Guide	78460391.hlp and 78460391.cnt	WinHelp	**Server:** Start menu — Program Group **Client:** Documentation Program group
MAPPER Administration (MapAdmin) Help	mapadmin.hlp and mapadmin.cnt	WinHelp	From MapAdmin — F1 or Help menu
MAPPER for Windows NT Administration Guide	whlp0022.hlp and whlp0022.cnt	WinHelp	Start menu — Program Group Icon
Gateway Configuration Tool Help	default.htm, cigcutop.htm, cigcup(1-4).htm	HTML	From the Tool

Locating Topics in Cool ICE Documentation

The following table is a high-level summary of topics in the Cool ICE online documentation. If you cannot find the exact topic that you are looking for, find a related topic, go to the online document, and use the index to locate the information you need.

Table 8–2. Topics in Cool ICE Documentation

Topic	Online Document
Understanding the Cool ICE system and its components	*Getting Started* *Technical Overview*
Installing Cool ICE Client components on a server or workstation	*Getting Started*
Installing related software (DGate/WebTx, Universal Data Access components)	*Getting Started*
Configuring the Cool ICE software on a server	*Getting Started*
Customizing a Cool ICE System	*ICE Admin Help*
Starting and stopping the Cool ICE system	*Getting Started*
Removing Cool ICE components from a server or a workstation	*Getting Started*
Setting up local and remote external database connection through MRI	*MRI Administration and User's Guide*
Configuring a data source name	*ICE Admin Help*
Configuring an ODBC data source name	*MRI Administration and User's Guide* *ICE Admin Help* *Windows NT Help for ODBC (control panel)*
Understanding MRIM and ODBC pooling	*MRI Administration and User's Guide Help* *MAPPER for WINDOWS NT Administration Guide*
Configuring MRIM and ODBC pooling	*MRI Administration and User's Guide Help* *MAPPER for WINDOWS NT Administration Guide* *MapAdmin Help*

Table 8–2. Topics in Cool ICE Documentation

Topic	Online Document
Understanding data access concepts and how to access relational databases	*Technical Overview* *Developer's Guide Help*
Registering a relational table or database with the Cool ICE system	*ICE Admin Help*
Adding security to a relational database, table, or column (to restrict users from viewing specific data in a table)	*ICE Admin Help* *Technical Overview*
Creating a Cool ICE Client (MPC) script	*Cool ICE Client (MPC) Help*
Creating user security profiles	*ICE Admin Help*
Understanding Cool ICE user and service security	*Technical Overview*
Understanding using security profiles	*Technical Overview*
Set up Cool ICE users	*ICE Admin Help*
Creating a category	*ICE Admin Help* *Developer's Guide Help*
Creating security profiles for services	*ICE Admin Help*
Adding users to security profiles	*Getting Started* *Technical Overview*
Understanding Cool ICE services	*Technical Overview*
Creating dynamic HTML services	*Technical Overview* *Developer's Guide Help*
Accessing the Data Wizard	*Getting Started*
Understanding the Data Wizard and its relationship to data service access, active server pages, and dynamic services	*Technical Overview* *Data Wizard Help*
Creating a query definition in Data Wizard and save this definition as Query Definition Service or a Dynamic HTML service.	*Technical Overview* *Data Wizard Help* *Developer's Guide Help*

Table 8-2. Topics in Cool ICE Documentation

Topic	Online Document
Creating a Cool ICE script	*Developer's Guide Help* *Command Reference Help* *Cool ICE Script Editor Help*
Creating native and open Cool ICE applications	*Developer's Guide Help* *Technical Overview*
Understanding a specific statement in a Cool ICE script	*Command Reference Help*
Creating a Cool ICE Object	*Technical Overview*
Understanding the Active Server Pages (ASP) environment	*Technical Overview*
Creating an active server page	*Technical Overview* *Developer's Guide Help*
Incorporating a Query Definition Service from the Data Wizard into an active server page	*Technical Overview* *Developer's Guide Help*
Bringing a Cool ICE repository site up and down	*MapAdmin Help* *MAPPER for WINDOWS NT Administration Guide Help*
Backing up and restoring the Cool ICE database	*MapAdmin Help* *MAPPER for WINDOWS NT Administration Guide Help*
Setting up network connections between databases and the repository	*MapAdmin Help* *MAPPER for WINDOWS NT Administration Guide Help* *ICE Admin Help*
Setting up virtual directories	*Gateway Configuration Tool Help* *ICE Admin Help* *MMC Help*
Creating gateway configurations and their components	*Gateway Configuration Tool Help*
Creating, upgrading, or reinstalling a Cool ICE administration component	*ICESETUP Help*

Viewing Cool ICE Information on the Web

You can visit Cool ICE on the world Wide Web at

```
http://www.marketplace.unisys.com/coolice/
```

This Web site provides the latest marketing and technical information about the Cool ICE product. Topics covered include

- News and events
- Product information
- New and updated technical information
- Answers to your FAQs
- Examples and demos

Appendix A
Restoring the Repository Database

Use this procedure to restore the repository databases. You execute this procedure whenever you migrate to a new level of the Cool ICE software

Note: *This procedure refers to MAPPER site A. When restoring a repository database at your site, substitute the site letter that corresponds to your system.*

To restore the repository database

1. Start MapAdmin.
2. Connect to MAPPER site A (or whatever site you are restoring). MapAdmin displays a message that the site is offline.
3. From the site context menu, select Start. MapAdmin displays a warning that the existing database will be overwritten.
4. Enter **C** to continue. MapAdmin displays this prompt:

   ```
   Change save device (D:\MSWSITES\TMP\SAVE.PUR)?  (Y or N) -->
   ```

5. If this is the correct location of your backup file, enter **N**.

   Note: *If this is not the location of your backup file, enter Y. MapAdmin prompts you for a save device (directory path) name. Enter the directory path.*

   MapAdmin displays a message to load the save file, followed by Continue or Stop? (C or S) –>.

6. Enter **C** to start the initialization process. MapAdmin displays initialization status, and displays this message when initialization is complete.

   ```
   Are there any other save files to load?  (Y or N) -->
   ```

7. Enter **N** to close the initialization process.
8. Exit MapAdmin.

9. From the Cool ICE CD-ROM, copy the entire database directory (including subdirectories) from \\install\server\database to a temporary directory on your computer. Note that the release database backup file (*filename.pur* file) is located under the purge file directory. For example,

   ```
   c:\temp\database\981105nc.pur
   ```

10. Start the Cool ICE Client. Sign onto MAPPER as MAPCOORD in department 2.
11. Enter APPLOAD to load the UPGRADE script. The Load an Application screen appears.
12. Enter the following on the Load an Application screen:
    a. Cabinet 2, drawer i, report 67 in the purge media columns.
    b. Y for the Overwrite report? prompt.
    c. The complete path name and file name (yymmddnc.pur) for the release database backup file, which exists in the directory you copied in step 9. For example,

       ```
       c:\temp\database\981105nc.pur
       ```

    d. Click NumEnter to execute the APPLOAD script.
13. When APPLOAD completes, click F4 to return to the main *Cool ICE Client* screen.
14. Enter AGENDA to register the script. The Agenda Run screen appears.
15. Select Run Registration. The Run Registration screen appears.

16. Enter the following information on the Run Registration screen:
    a. Run name = UPGRADE
    b. Department = 2
    c. Cabinet, Drawer, Report = 2, i, 67
    d. Cabinets this run may access = ALL
    e. User-id = MAPCOORD
    f. Maximum I/Os = 1.0e6 Maximum LLPs = 1.0e6
    g. Maximum variables = 499
    h. Maximum labels = 599
    i. Total variable characters = 20000
    j. User group? = Y

    Leave the other fields blank. Press NumEnter to complete the script registration.
17. When script registration is complete, click F4 twice to exit the AGENDA script.
18. Execute the UPGRADE script. Enter 1.1 for the previous software level. Click OK to display an information screen
19. Click Continue. A screen that lets you specify the path and release database backup file name appears. This is the .pur file that exists in the database directory you copied in step 9. For example,

    ```
    c:\temp\database\981105nc.pur
    ```
20. Click OK. You see information about reports being copied to the repository. After this process completes, an informational screen appears.
21. Click Continue. A list of reports that are no longer needed appears. You can modify this list using the Remove and Select buttons. As a general rule, you should accept the entire list for deletion.
22. Click OK. MAPPER shows you an information screen about deleted reports.
23. Click Continue. MAPPER displays another information screen.
24. Click Continue to display the UPGRADE Complete screen.

25. Click Continue. The Cool ICE - Internet Commerce Enabler - Setup screen appears.
26. In the Path field, specify the name of the release database folder you copied in step 9. For example,

    ```
    c:\temp\database\981105nc.pur
    ```

27. Click OK. The Installation Options screen appears.
28. Click Continue to accept the default Upgrade option and ICEADMIN as the Cool ICE System name. The Cool ICE - Setup screen appears.
29. Click Upgrade to begin the ICEAdmin upgrade process.
30. After this process completes, click Exit to complete the Setup script.
31. Start MapAdmin.
32. Use MapAdmin to stop and start the MAPPER site. This action restarts MAPQUE.
33. If you have multiple Cool ICE systems at your site, you must execute the ICESETUP script for each Cool ICE system. Select the Upgrade option in ICESetup to perform the upgrade for each feature.

Appendix B
Using Cool ICE in a Netscape Server Environment

This appendix discusses using the Cool ICE system with a Netscape Web server. Topics covered include

- Understanding the role of Chili!ASP Software
- Obtaining Trial Chili!ASP Software

Understanding the Role of Chili!ASP Software

The Cool ICE Object requires an Active Server Pages (ASP) environment. ASPs provide a framework for developing server-side Web applications. To use Cool ICE 2.0 with other Web servers, such as Netscape Enterprise Server or FastTrack Server, you must install a third-party product from Chili!Soft called Chili!ASP. This software provides the ASP framework for Web servers other than Microsoft Internet Information Server (IIS).

For more information about the Chili!ASP software, visit the Chili!Soft home page at

```
http://www.chilisoft.com
```

Note: *Chili!ASP is not included with Cool ICE. You must purchase this software separately. You must use Chili!ASP version 1.20.0.766 or higher with your Cool ICE system.*

Obtaining Trial ASP Software

Chili!Soft provides a trial version of Chili!ASP, which you can download from the Chili!Soft home page.

To download the Chili!ASP software

1. Go to the Chili!Soft home page.
2. Select the Download button.
3. Follow the instructions for downloading the trial software.

   The following table includes the Web server levels supported by Chili!ASP with Cool ICE 2.0.

Web Server	Level
Netscape Enterprise Server	2.x, 3.x
Netscape FastTrack Server	2.x, 3.x

   Note: *It is also necessary to get a trial license to enable Chili!ASP. The Chili!Soft Web page includes instructions for obtaining a trial license.*

4. After downloading the trial version of Chili!ASP, install the software on your Web server. A number of example ASP applications are installed along with Chili!ASP. Try executing some of the example applications to make sure the Chili!ASP software is installed and configured properly before using Cool ICE applications.

   Note: *Refer to the* Technical Overview *for more information about using Chili!ASP in a Netscape environment.*

Appendix C
Alternatives for Creating IIS Virtual Directories

If the Cool ICE installation fails to create the virtual directories correctly, or if the installation program detects an error, you can create virtual directories using an alternative method. Topics in this appendix include

- Creating Virtual Directories with Command Scripts
- Creating Virtual Directories with the MMC Utility

You can use either of the two methods presented in this appendix for creating or modifying virtual directories.

Creating Virtual Directories with Command Scripts

Use this procedure if virtual directory creation fails during the setup process, or if you have multiple Web sites installed in Microsoft Internet Information Server (IIS) and need to select a different site for the Cool ICE gateway. By default, the installation program chooses the first site (domain). These scripts, included on the Cool ICE CD, enable you to create virtual directories on other Web servers.

To create or modify virtual directories

1. On the Cool ICE CD, find the ...\install\WebVDCmd\ directory. This directory contains the scripts that create virtual directories on the selected Web server.
2. Open the CIDefault.cmd script file and make the following changes:

Change	To
"IIS://localhost/W3SVC/1/Root"	"IIS://localhost/W3SVC/*number of your selected web server*/Root"
"X:\Cool_ICE"	"*your Cool ICE installation path*"
"Your Virtual Directory Alias Name goes here"	"*your virtual directory name*"

3. Save the CIDefault.cmd file in a folder on your hard drive.
4. Execute the CIDefault.cmd file.
5. Open the CISystem.cmd script file and make the following changes:

Change	To
"IIS://localhost/W3SVC/1/Root"	"IIS://*localhost*/W3SVC/*number of your selected web server*/Root"
"X:\Cool_ICE"	"*your Cool ICE installation path*"

6. Save the CISystem.cmd file in a folder on your hard drive.
7. Execute the CISystem.cmd file. The virtual directory setup is complete.

Creating Virtual Directories with the MMC Utility

Use this procedure if you need to manually create virtual directories.

To create the Cool-ICE (default gateway) virtual directory

1. Create the virtual directory.
   a. Select the Internet Service Manager from the Windows NT (4.0) Option Pack | Microsoft Personal Web Server program group to open the MMC utility.
   b. Select the Web site.
   c. Right-click on the Web site in the right pane, and select New | Virtual Directory.
   d. Enter the virtual directory alias (the installation default is Cool-ICE).
   e. Enter the physical path to the Cool ICE installation, Default Gateway directory. Click the Next button.
   f. Click Finish in the last New Virtual Directory Wizard dialog box.

2. Change the virtual directory properties.

   a. Right-click on the virtual directory you just created, and select Properties. The Default Web Site Properties sheet appears.

   b. Go to the Home Directory tab. In the Application Settings Name field, click the Remove button to delete the existing name. Now, click the Create button and enter **Cool ICE Default Gateway** in the Name field.

   c. Under Application Settings | Permissions, select the Execute (including script) radio button and the Run in separate memory space (isolated process) check box.

   d. Go to the Documents tab, click on Default.htm, and click the Remove button. Default.asp should be the only entry in the list box.

   e. Go to the Directory Security tab. In the Anonymous Access and Authentication Control field, click the Edit button.

   f. Uncheck the Windows NT Challenge/Response check box, and click OK.

   g. Click the Apply button at the bottom of the Default Web Site Properties dialog box, and click OK.

To create the CISystem (CIUtilities) virtual directory

1. Create the virtual directory.
   a. Select the Internet Service Manager from the Windows NT (4.0) Option Pack | Microsoft Personal Web Server program group to open the MMC utility.
   b. Select the web site.
   c. Right-click on the web site, and select New | Virtual Directory.
   d. Enter **CISystem** for the virtual directory alias.
   e. Enter the physical path to the Cool ICE installation, CIUtilities directory. Click the Next button.
   f. Click Finish in the last New Virtual Directory Wizard dialog box.
2. Change the virtual directory properties.
   a. Right-click on the CISystem virtual directory, and select Properties. The CISystem Properties sheet appears.
   b. Go to the Virtual Directory tab. In the Application Settings Name field, click the Remove button to delete the existing name.
   c. Go to the Documents tab, and uncheck the Enable Default Document check box.
   d. Go to the Directory Security tab. In the Anonymous Access and Authentication Control field, click the Edit button.
   e. Uncheck the Windows NT Challenge/Response check box, and click OK. Click the Apply button at the bottom of the dialog box, and click OK.

f. Right-click on the CISystem\GateTool virtual directory and select Properties. The GateTool Properties sheet appears.

g. Go to the Directory tab. In the Application Settings Name field, click the Create button, and enter **Cool ICE Admin** in the Name field.

h. Under Application Settings | Permissions, select the Execute (including script) radio button and the Run in separate memory space (isolated process) check box.

i. Go to the Documents tab, and check the Enable Default Document check box.

j. Click on Default.asp, and click the Remove button. Default.htm should be the only entry in the list box.

k. Go to the Directory Security tab. In the Anonymous Access and Authentication Control field, click the Edit button.

l. Uncheck the Allow Anonymous Access check box, and check the Basic Authentication (Password is sent in Clear Text) check box. Answer Yes to the message box.

m. Check the Windows NT Challenge/Response check box, and click OK. Click the Apply button at the bottom of the dialog box, and click OK.

The virtual directory setup is complete.

Glossary

A

access log

In Cool ICE, the record of requests for services made from a browser. The access log contains information associated with each request, such as who requested the service, at what time, and so on. The Event Viewer menu in ICE Admin allows administrators and service developers to view the access log.

Active Server Pages (ASP)

The server-side execution environment in Microsoft Internet Information Server that executes ActiveX Scripts and ActiveX Components on a server. Developers can combine scripts and components to create Web-based applications.

ActiveX

A set of language-independent interoperability technologies that enable software components written in different languages to work together in networked environments. The core technology elements of ActiveX are COM and DCOM. These technologies are licensed to The Open Group standards organization, and are being implemented on multiple platforms.

ActiveX control

A compiled software component based on the Component Object Model (COM) that encapsulates a set of business or user interface functions. An ActiveX Control is used to provide user interface components and is designed to run on the client computer. These were formerly called OLE Controls. Optimizations in the technology resulted in smaller, faster software components and support for key features used to distribute components "just in time" over networks such as the Internet. ActiveX Controls can be embedded in Web pages for use over the Internet as well as combined to create client/server applications that run over a corporate network. They can be created by a variety of programming languages from Microsoft or from third-party vendors. ActiveX Controls use the file extension .ocx.

ActiveX component
A compiled software component based on the Component Object Model (COM) that encapsulates a set of business functionality. The functionality in an ActiveX component is accessed through ActiveX Automation interfaces. The ActiveX Component can execute either on a client computer or on a server computer, transparent to the calling application, through DCOM. ActiveX Components can be driven by a scripting language such as VBScript or JScript. All Java applets, running in the Microsoft virtual machine for Java, are automatically ActiveX Components and use the file extension .class. ActiveX Components that run within the calling application process use the file extensions .dll or .ocx. ActiveX Components that run outside of the calling application process use the file extension .exe. *See also* COM.

ActiveX Data Object (ADO)
A set of object-based data access interfaces optimized for Internet-based, data-centric applications. ADO is based on a published specification and ships with Microsoft Internet Information Server and Microsoft Visual InterDev.

ActiveX server component
An ActiveX Component designed to run on the server side of a client/server application. *See* ActiveX component.

ADO
See ActiveX Data Object.

applet
(1) A small, single-function application designed to be executed from within another application. (2) An HTML-based program built with Java that a browser temporarily downloads to a user's hard disk, from which location it runs when the Web page is open.

application
In Cool ICE, a set of related tasks accomplished by one or more services and the database processed, for example, an order-entry system.

ASP
See Active Server Pages.

B

BEA TUXEDO /Workstation (/WS)
Software that calls an Open/OLTP batch service routine in the OS 2200 environment to access an RDMS 2200 database.

browser
See Web browser.

C

cabinet
In the Cool ICE repository, a group of eight drawers (B through I) referred to by a number, for example, cabinet 200.

cascading style sheet (CSS)
A definition of the layout and appearance of the elements in a Web page, such as its typeface, line spacing, margins, and so on.

category
A container for one or more Cool ICE services. A category typically contains an application.

CGI
See common gateway interface.

client side
Any operation that is performed at the client in a client/server relationship. *Contrast with* server side.

common gateway interface (CGI)
A server-side interface for initiating software services. A set of interfaces that describes how a Web server communicates with software on the same computer. Any software can be a CGI program if it handles input and output according to the CGI standard. *See also* gateway.

Component Object Model (COM)
The object-oriented programming model that defines how objects interact within a single application or between applications. In COM, client software accesses an object through a pointer to an interface—a related set of functions called methods—on the object. *See also* Distributed Component Object Model.

connection
A link between the browser and Web server that enables a browser to request and receive an HTML page from a Web server. The connection ends when the Web server returns the HTML page. *Contrast with* session.

cookie
A small data file sent to the browser by a Web server. The browser stores the file on the workstation's hard drive. It sends the file back to the Web server each time it requests a page from the server. The file can contain information about the user's previous selections at that Web site and any personal preferences. Using cookies, a server or script can maintain state or status information on the client workstation.

Cool ICE configuration
A set of parameters used in establishing a connection to the Cool ICE Engine. A Cool ICE configuration defines characteristics such as a session timeout value, a Cool ICE connection pool name, default user-id/password for anonymous access to Cool ICE services, and various other parameters.

Cool ICE connection
A link between the Cool ICE object and the Cool ICE Engine. The connection ends when the Cool ICE object is destroyed or the connection is explicitly released. Cool ICE connections are maintained in a Cool ICE connection pool.

Cool ICE connection pool
A pool of active Cool ICE connections that the Cool ICE object uses to establish a link to the Cool ICE Engine.

Cool ICE Engine
The component of Cool ICE that provides analytical functions, and access to data and applications.

Cool ICE gateway name
A name used by the Cool ICE object to determine which Cool ICE configuration establishes the connection to the Cool ICE Engine. Several Cool ICE gateway names can be associated with a Cool ICE configuration. The Cool ICE gateway name is specified as part of the URL used to indicate which Cool ICE service to execute.

Cool ICE graphing engine
The component of Cool ICE that creates a graph from information stored in the current result. The Cool ICE service displays the graph in the browser.

Cool ICE Object
The component of Cool ICE that provides access to the Cool ICE Engine, Cool ICE native and data services, state management, and user profiling.

Cool ICE repository
In Cool ICE, the database used to store services and other objects. The database is organized into a series of cabinets, drawers, and reports.

Cool ICE Script
The native, interpreted scripting language for writing native Cool ICE services. Data services created by the Data Wizard also use Cool ICE Script. The Cool ICE Engine executes the commands in Cool ICE Script.

Cool ICE Script Editor
A Windows-based editor for Cool ICE Script, the native scripting language. A service developer can configure ICE Admin to start the Script Editor whenever he or she selects Modify Service on the Object Attributes dialog box.

Cool ICE scripting language
See Cool ICE Script.

Cool ICE Service
An object in the repository that contains any combination of HTML, client-side scripting, and server-side scripting. Cool ICE executes the service when requested by a browser. A service performs some business logic and returns a result. Cool ICE contains three types of services: native, open, and data.

Cool ICE Service Handler
The Cool ICE runtime module that handles requests for services coming from a browser.

CSS
See cascading style sheet.

D

data service
A type of Cool ICE service created by the Data Wizard. Data services retrieve and manipulate data from external databases.

Data Wizard
A Cool ICE development tool that enables service developers to connect and retrieve data from an external database without having to know Cool ICE Script or HTML. Using the Data Wizard, the service developer creates a data service that can be called directly or from an active service.

department
A group of users specified by a number. By default, users are placed in department 7. Different departments can have different access permissions.

DGate
See Open/OLTP DCOM/OLE Gateway.

DGateAce
A transaction gateway utility that simplifies the process of defining the DCOM client and server programs used with DGate. It creates and saves interface definition files and function definition files that are the basis for the client and server code modules accessed by DGate.

Distributed Component Object Model (DCOM)
Additions to the Component Object Model (COM) that facilitate the transparent distribution of objects over networks and over the Internet. DCOM is part of the specification managed by The Open Group for deployment across heterogeneous platforms.

drawer
In the Cool ICE repository, a group of reports in a cabinet. Each drawer of a cabinet is identified by a letter from B to I; for example, drawer D in cabinet 200. All cabinets in the repository can access drawer A.

dynamic page
An HTML page that the Web server builds each time it is requested by a browser. For example, the page can be built from the latest values in a database. Dynamic pages often contain scripting. *Contrast with* static page.

dynamic service
In Cool ICE, an object that builds a new HTML page every time it is requested by a browser.

E

e-business
The conduct of business transactions over the Internet, such as buying and selling goods, providing customer service, and working with business partners.

e-commerce
The buying and selling of goods over the Internet, especially the World Wide Web.

environment variables
(1) In a workstation environment such as Windows, names that specify global values. (2) In a gateway, a variety of data concerning an Internet HTTP request. These variables are made available to user-written applications when they are requested.

error log
In Cool ICE, the record of all services that failed to execute because of a syntactical error. The Event Viewer menu in ICE Admin allows administrators and service developers to view the error log.

Event Viewer
An option in ICE Admin that lets administrators and service developers view events logged by Cool ICE, such as requests for services made from a browser and service errors.

extranet
That portion of a corporate intranet that is open to customers, business partners, and anyone to whom the corporation grants access privileges.

F

frames
In HTML, the division of the Web browser's display area into separate sections. Each section is called a frame and can contain its own Web page.

FrontPage
See Microsoft FrontPage.

G

gateway
Conversion software that integrates dissimilar entities such as network protocols, software object models, or data storage devices.

Gateway Configuration Utility
A component of Cool ICE that enables an administrator to create, update, or delete Cool ICE connection pools, configurations, and gateways.

graphics server
The server that creates Cool ICE Graphics.

H

High-performance Transaction Processing Interconnect (HTP/ic)
System software that provides the underlying connection between Windows NT and the Open/OLTP client/server applications. HTP/ic facilitates communication to the HTP/x product and, ultimately, the Open/OLTP product. HTP/ic is based on XATMI and OSI TP standards.

Hypertext Markup Language (HTML)
The primary language used to define documents accessed over the World Wide Web. As a markup language, HTML uses tags to identify how the text is used (for example, first-level heading, paragraph, list), as opposed to how the text should be presented. The Web browser determines how to present the text, for example, the font, type size, indents, and justification. HTML also allows authors to define hypertext links between locations in the same document and between other documents and multimedia objects.

HTML
See Hypertext Markup Language.

HTML editor
An authoring tool for creating HTML documents.

HTP/ic
See High-performance Transaction Processing Interconnect.

HTTP
See Hypertext Transfer Protocol.

hyperlink
Short for hypertext link—a predefined connection from a Web page to another resource on the Web. The link is displayed as either text or an icon (graphic). The destination of the hyperlink can be another page, a multimedia file, a program, or a service. When a user clicks on a hyperlink, the browser passes the request to the appropriate Web server and waits for it to return an HTML page. The destination of the hyperlink is coded as a URL.

Hypertext Transfer Protocol (HTTP)
The TCP/IP format used on the World Wide Web to exchange HTML documents between a browser and Web server. When a user requests an HTML page by either typing a URL or clicking on a hyperlink, the browser builds an HTTP request and sends it to the appropriate Web server.

I

ICE Admin
The Cool ICE administrative component that manages services and user profiles, organizes services and categories, and configures Cool ICE.

IIS
See Microsoft Internet Information Server.

internet
Any collection of interconnected networks. An internet does not necessarily use TCP/IP.

Internet
The global collection of interconnected networks that use the TCP/IP suite of communications protocols. The Internet provides World Wide Web, Usenet news, and other services to users.

Internet Explorer
See Microsoft Internet Explorer.

intranet
A private network that uses Internet technologies. An intranet is not available to the general public, only to those individuals granted access permission.

J

Java
A platform-independent, object-oriented language derived from C++. It is optimized for the Internet.

JavaScript
An interpreted programming or script language that was developed by Netscape Communications Corporation. JavaScript programs can be added to Web pages to create interactive documents.

JScript
The implementation of JavaScript from Microsoft Corporation, which is built into Internet Explorer. JavaScript and JScript are not 100% compatible.

L

LiveWire
See Netscape LiveWire.

M

MAPPER Administration Program
The program that assists administrators with many different repository administration tasks. These tasks include managing files, sites, and memory usage; backing up the repository, initializing the repository, and so on.

MAPPER Relational Interface (MRI)
The Cool ICE interface to data stored in relational tables. MRI consists of seven commands designed to perform specific relational tasks, the Relational Database Interface (RDI), and software programs to manage the communications between the Cool ICE Engine and the relational database.

MAPPER system
A file management system that enables the user to maintain and manipulate a large amount of data in a report-structured database.

marshal
The process of packaging and sending interface parameters across boundaries in computer memory.

method
Member functions of an exposed object that perform some action on an object, such as saving it to disk. A method is a logical operation provided by an object. Operations performed on objects are defined as *methods of the object.* To invoke a method, an object sends a message consisting of the receiving object and the name of the specific method to invoke. The name of the method is sometimes called a *selector.*

Microsoft FrontPage
A product from Microsoft Corporation for creating and managing Web sites.

Microsoft Internet Explorer
A popular Web browser developed by Microsoft Corporation.

Microsoft Internet Information Server (IIS)
Web server software integrated into the Windows NT Server 4.0 operating environment.

Microsoft Transaction Server (MTS)
A feature of the Windows NT Server 4.0 operating environment that provides a component-based transaction processing system for developing, deploying, and managing Internet and intranet server applications. It combines the features of a transaction processing (TP) monitor and an object-request broker (ORB).

MIME
See Multipurpose Internet Mail Extension.

MRIM
See Relational Interface Manager.

Multipurpose Internet Mail Extension (MIME)
A specification for sending and receiving audio, video, graphics, and other types of nontextual data over the Internet. Browsers recognize different MIME types and can launch an associated helper application when they encounter that MIME type. *See also* Secure Multipurpose Internet Mail Extension.

N

native Cool ICE service
An object in the repository that contains any combination of HTML, client-side scripting, or server-side scripting. The server-side scripting language is Cool ICE Script. *Contrast with* open Cool ICE service.

Netscape Communicator
A popular Web browser developed by Netscape Communications Corporation.

Netscape Enterprise Server
High-performance Web server software for creating, managing, and distributing information and online applications.

Netscape FastTrack Server
Entry-level Web server software designed to let users create and manage a Web site with minimal experience.

Netscape LiveWire
A suite of management and development tools that enables programmers to create Web content, sites, and applications for the Netscape Enterprise and FastTrack servers.

Netscape Navigator
A popular Web browser developed by Netscape Communications Corporation.

O

object
(1) In Cool ICE, any item that can be stored in the repository. An object can contain binary or textual data. GIF or JPEG images, applets, Microsoft Word documents, Cool ICE services, and static HTML documents are examples of objects. (2) In object-oriented programming, a self-contained entity that consists of both data and the procedures to manipulate the data.

Online Transaction Processing (OLTP)
A high-performance type of application characterized by a service request from a user (client) immediately followed by an action and response from a server system. A complete request-response cycle is called a transaction. OLTP systems must meet certain criteria, called ACID properties (atomicity, consistency, isolation, and durability), to maintain the integrity of the data and ensure that transactions are executed correctly.

open Cool ICE service
An object in the repository that contains any combination of HTML, client-side scripting, and server-side scripting. The server-side scripting language is Visual Basic Script or JScript. *Contrast with* native Cool ICE service.

Open Database Connectivity (ODBC)
A vendor-neutral interface, based on the SQL Access Group specifications, announced by Microsoft in December 1991. A developer can use ODBC to access data in a heterogeneous environment of relational and nonrelational databases.

Open/OLTP DCOM/OLE Gateway (DGate)
A Unisys software component that enables Distributed Component Object Module (DCOM) clients to access OS 2200 applications.

P

profile
See user profile.

protocol
A mutually determined set of formats and procedures for the exchange of information between computers.

Q

query definition
A service created by the Data Wizard that specifies the data sources (databases, tables, and columns that you want to access. It also specifies how the data appears *as well as* the operations that you want to perform.

R

Relational Interface Manager (MRIM)
A set of programs used to manage the communications between the Cool ICE Engine and the relational database management system. MRIM consists of the Request Manager, which submits the code generated by MRI commands to the database manager and returns data to Cool ICE, and a Database Handler for each database supported by MRI. In addition, a Remote Communications Handler is employed to access data stored on a remote host.

report
The set of data that you work with. Reports are identified by a unique report number.

repository
See Cool ICE repository.

result
A temporary report created by Cool ICE Script commands.

S

script
A series of instructions or commands that are interpreted rather than compiled.

scripting language
A programming language for writing scripts. VBScript, JavaScript, and Cool ICE Script are examples of scripting languages.

Secure Electronic Transactions (SET)
A protocol for securing credit card transactions on the Internet. SET uses digital signatures to verify the identity of customers.

Secure Multipurpose Internet Mail Extension (S/MIME)
A standard for sending and receiving encrypted mail.

Secure Sockets Layer (SSL)
A protocol that allows for the secure transmission of confidential information between a client and a server. SSL uses a public key to encrypt data being sent over the Internet. Both Netscape Navigator and Microsoft Internet Explorer support SSL.

server side
Any operation that is performed at the server in a client/server relationship. *Contrast with* client side. For example, Cool ICE Script executes on the server.

service
See Cool ICE Service.

services table
In Cool ICE, a list of all objects and dynamic services assigned to a category. Each category has its own services table.

session
A lasting connection between the browser and the Web server involving the exchange of data. A Cool ICE configuration parameter determines the length of the session. *Contrast with* connection.

site
In Cool ICE, the combination of the repository, its list of users, and its general operations. One computer system can contain up to 26 sites.

SQL
See Structured Query Language.

state
For an HTML page, the set of current or last-known values for its attributes, configuration, or content. Maintaining state refers to keeping track of this data over time. To maintain state information over time, some Web sites send cookies to the user's workstation.

stateless
Not maintaining state information over time. All Internet requests are stateless by default.

static page
An HTML page that the Web server returns each time it is called by a Web browser. The Web server does not change or modify the content of the page. *Contrast with* dynamic page.

static service
In Cool ICE, an object that contains HTML but not any scripts. A Web server returns the same HTML page each time it executes a static service.

Structured Query Language (SQL)
An industry-standard set of relational commands that let a user create, retrieve, and update data in a relational database.

style guide
In Cool ICE, the variables used to maintain the same layout and appearance of the HTML pages created by a service. It also provides a method for maintaining common variables used in dynamically generated HTML pages.

style sheet
See cascading style sheet.

T

trace log
A debugging aid in Cool ICE that contains service requests and input captured from the browser. The Event Viewer menu in ICE Admin allows administrators and service developers to view, run, and delete trace logs.

Tuxedo
A software product that is based on the X/Open model for distributed transaction processing (DTP). Tuxedo and other X/Open compliant DTP software allow organizations to develop applications that execute transactions across multiple systems and database types.

TWIP
A unit of typographical measurement that is equal to 1/20th of a printer's point. There are 1,440 twips to an inch, or about 567 twips to a centimeter. TWIP is the unit of measurement for Cool ICE Graphics.

U

Uniform Resource Locator (URL)
A standard for specifying the exact location of a resource, such as a file, on the Internet. URLs are used in HTML documents to specify the target of a hyperlink. The URL includes the name of the protocol needed to access the resource, a domain name, and, for files, the path to its location on the Web server.

URL
See Uniform Resource Locator.

user profile
A definition of which users or groups of users have access to each Cool ICE Service. An administrator uses ICE Admin to define user profiles.

V

Visual Basic Scripting Edition (VBScript)
An interpreted scripting language that is a product of Microsoft Corporation. VBScript is a subset of the Visual Basic Programming Language and is implemented in Microsoft Internet Explorer and Internet Information Server (IIS).

W

Web application
A software program that uses HTTP for its core communications protocol and delivers Web-based information to the user in the HTML language. Also called a Web-based application.

Web browser
A client program used to locate and display HTML pages. The Web browser uses Hypertext Transfer Protocol (HTTP) to request HTML pages from a Web server. Netscape Navigator and Microsoft Internet Explorer are examples of Web browsers.

Web page
A file accessible on the World Wide Web that is embedded with HTML tags, scripts, images, and other technology supported by Web browsers.

Web server
The hardware, operating system, Web server software, communications protocols, and Web site content that is connected to the Internet.

Web server software
The software running on the Web server that returns HTML pages in response to an HTTP request from a browser. Netscape Enterprise Server, Netscape FastTrack Server, and Microsoft Internet Information Server are examples of Web server software.

Web site

A location on the World Wide Web that is usually a related collection of Web pages. Each Web site contains a home page from which a user can access all the other pages on that site.

WorldPay

A secure, multicurrency payment system, developed by WorldPay Limited, for use on the Internet.

World Wide Web (WWW)

A global, hypertext-based information system providing an easy way to access documents. It gives users on computer networks a consistent way to easily access a variety of media.

Index

A

B

C

D

E

F

G

H

I

J

L

M

N

O

P

Q

R

S

T

U

V

W

Cool ICE 2.0
90-Day Trial Offer!

Bridging the Gap Between IT and the Web

UNISYS

Visit Us!

Unisys Home Page:
http://www.unisys.com/

Cool ICE Home Page:
http://www.marketplace.unisys.com/coolice/

Center of Excellence:
http://www.coe.unisys.com/webdemos.htm

What Is Cool ICE?

Cool ICE bridges the gap between the disparate technologies, processes, and cultures of back-end systems that run the company and front-end systems that serve the Internet.

Cool ICE addresses the challenge of making business-critical information available on the Internet, while protecting it at the same time, by providing a high-performance information server that creates, organizes, and manages new Web applications. With Cool ICE, you can

- Create new and dynamic Web services that differentiate you from your competitors.
- Develop Web-based business services using your existing systems and data.
- Provide Web access to the data on your current servers while protecting data integrity.
- Develop new Web applications based on data from multiple, disparate servers and databases.
- Manage all of your Web applications with a single administration facility.
- Serve multiple audiences with a single system.
- Secure your applications and data.

The Answer Is Cool ICE!

Cool ICE is supported on Microsoft Windows NT platforms and can interface with virtually any database through ODBC. More significantly, Cool ICE has its own highly efficient, direct interface with many of today's most popular databases.

There is much more to Cool ICE than simple data access, however. Cool ICE provides an information engine to transform, integrate, analyze, and correlate information. The Cool ICE engine is enterprise-class, scalable, and proven in production at demanding, client environments around the world. Just ask MCI or the United Bank of Switzerland.

Cool ICE has a uniquely scalable and portable architecture that offers you a cost-effective way to enter the electronic commerce arena. Applications are completely portable between platforms. This makes it possible to develop applications on a small server and deploy them in a wide range of environments—from desktop platforms to single-processor Microsoft Windows NT systems—all the way up to enterprise-class ClearPath HMP multiprocessor servers. This scalability minimizes redevelopment time and protects your investment as electronic commerce needs grow.

Contacting Unisys

If you have questions or problems with your evaluation copy of Cool ICE 2.0, send e-mail to **cool.question@unisys.com**

If you are an existing Unisys customer, do not contact the Help Desk or your Unisys representative. They will not be able to assist you with questions about the evaluation copy.

Evaluation Copy Available!

For a limited time, Unisys is offering a free trial copy of Cool ICE for evaluation. You can obtain a trial copy in one of two ways:

- Order the Cool ICE 2.0 CD-ROM (style number **ICE 5002-WEB**) from your Unisys branch representative.
- Download a copy from the Cool ICE Web site at **http://www.marketplace.unisys.com/coolice/**

Before you download a copy, just tell us who you are, and describe your hardware and software environment. With this information, we can help you make the best use of your evaluation copy of Cool ICE.

The trial copy includes all the features of Cool ICE, and you can use it to develop and deploy business applications for 90 days. At the end of that time, the trial copy will be automatically disabled. If you want to continue using Cool ICE, send an e-mail to Unisys at **cool.question@unisys.com**

Demos Available!

Demonstrations of solutions provided by Cool ICE are available at the Unisys Center of Excellence Web site, including Cool Athletic Footwear (a fictitious company) and other related applications. You can access the demos and accompanying explanations at the following Center of Excellence site: **http://www.coe.unisys.com/webdemos.htm**

The Cool Athletic Footwear demo consists of two parts: Electronic Commerce and Information Reporting. Follow the links and run the demo. It provides an example of an enterprise-scale application powered by Cool ICE. Here is the Cool Athletic Footwear home page:

Printed in U S America 12/98 7851 5699-001