JetBox 8150 User Manual

Windows XP Embedded

www.korenix.com

0.0.2

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Chapter 1 Overview

Industrial X86 1GHz Multimedia Computer

The advantage of adopting Korenix JetBox series is ready-to-use. Korenix is devoted to improve the usability of embedded computer in industrial domain. Korenix integrates device drivers, protocol stacks, system utilities, supporting services for Windows XP embedded in a CompactFlash card or in a 2.5" HD installed in the JetBox 8150 to let users experience JetBox 8150 in a simple way.

The JetBox 8150 is a VIA Eden V4 1GHz based computer with system memory 1GB DDRII RAM and built in media processor for multimedia performance enhancement.

Volume and performance of the JetBox 8150 is utilized as a perfect front end device: compact design, DiN-rail type mouting, and carrying all major interfaces, such as two USB2.0 ports, one RS-232 port, one RS-232/422/485 port, VGA, and high resolution audio. In addition, it is equipped with two RJ-45 ports and supports web server services to accommodate to the network communication environment today.

Chapter 2 Windows XP Embedded Software Specification

The JetBox XP embedded version provides abundant protocol stacks, common system utilities, and popular supporting services and application development environment to make the JetBox an easy and convenient programming platform. The software features of the JetBox XP embedded version are listed in following sections of this chapter and the JetBox file system is NTFS.

- **NTFS file system:** The NTFS File System driver (NT File System); Use NTFS instead of FAT for optimum file system security.

2-1 Protocol Stacks

The JetBox supports following protocol stacks: DHCP, IPv4, DNS, IPsec, HTTP, TCP, UDP, ICMP, IGMP, ARP, TAPI, TSP, SNMP, NTP, ICS, PPP, CHAP, EAP, SNTP, Telnet, SNTP, FTP, SMTP, PPPoE, PPTP, NetBIOS

- **DHCP Client Service:** registers and updates Internet Protocol (IP) addresses and Domain Name System (DNS) records for your target system.
- **IP Security Services:** this component provides IP Security (IPsec) services for all IP traffic.
- **Microsoft-Windows-HTTP Services:** implement the functionality of the HTTP protocol on a server.
- **TCP/IP Networking:** implements the core TCP/IP protocol stack, which includes the IPv4 version of the following protocols: Transmission Control Protocol (TCP), User Datagram Protocol (UDP), raw, Internet Control Message Protocol (ICMP), Internet Group Membership Protocol (IGMP), and Address Resolution Protocol (ARP). The component also includes Wshtcpip.dll, which is the Winsock provider for TCP/IP to enable socket-level communication over TCP/IP.
- **TAPI:** A Telephony API (TAPI) Telephony Service Provider (TSP).
- **Simple Network Management Protocol (SNMP):** SNMP is an agent service that provides management systems with information about activities that occur in the Internet Protocol (IP) network layer. The SNMP agent monitors network traffic, and retrieves and updates local management information based on the requests from the SNMP manager. The agent also notifies registered managers with traps when significant events occur.
- **Time Service Core:** Synchronizes a workstation's clock with other computers using Network Time Protocol (NTP) version 3. This component increases accuracy by incorporating algorithmic enhancements from NTP 4.

2-2 System utilities

The JetBox supports following system utilities: Windows command shell, telnet, FTP, web-based administration manager, wireless zero configuration

2-3 Supporting Service

The JetBox supports following supporting services: T

- **Telnet Server:** allows users to connect to Telnet servers from remote computers.
- **FTP server:** used for transferring files to and from remote computer systems via a network
- **IIS Web Server:** allows you to create and manage Web sites.
- **Dial-up networking service:** RAS client API and PPP, support extensible authentication protocol (EAP) and RAS scripting
- **COM+ Services:** the next evolution of Microsoft Component Object Model (COM) and Microsoft Transaction Server (MTS).
- **Disk Management Services:** support for disk and volume management operations. The component implements a Component Object Model (COM) interface that can be used to query and configure disks and volumes (both basic and dynamic). The component also monitors disk arrivals and removals and other changes in the storage subsystem.
- **Remote Registry Service:** Enables remote users to modify registry settings on this computer.

2-4 Application Development Environment

- **Microsoft .Net Framework 2.0 with service pack 2**—includes the common language runtime (CLR) and the .NET Framework class library.
- **Active Directory Service Interface (ADSI) Core**—provides the basic functionality for ADSI by routing requests to the corresponding provider, based on the path that is provided.
- **Active Template Library (ATL)**—Supports ATL applications.
- **Certificate Request Client & Certificate Autoenrollment**—This component includes the common language runtime (CLR) and the .NET Framework class library.
- **COM Base**—The Component Object Model (COM) includes a programming model and a set of application programming interfaces (APIs), but does not include a dedicated user interface.
- **Common Control Libraries**—Provides common user interface (UI) controls.
- **Common File Dialogs**—Provides support for common dialog boxes.
- **Direct3D**—Infrastructure for using two-dimensional and three-dimensional

graphics.

- **DirectPlay**—Provides a networking API that can enable any application to operate over both a peer-to-peer and client/server topology.
- **DirectShow**—Base filter graph and device enumeration support for all DirectShow applications. This component also provides most DirectShow filters.
- **Distributed Transaction Coordinator (MSDTC)**—A distributed transaction facility for Microsoft Windows systems, which uses transaction-processing technology. MSDTC uses loosely coupled systems to provide scalable performance.
- **File-Based Write Filter (FBWF)—**allows Windows XP Embedded (XPe) to maintain the appearance of read and write access to write sensitive or read only storage. FBWF makes read and write access transparent to applications.
- **Event Log**—A dynamic-link library (DLL) that runs as part of Services.exe. This component stores and retrieves events that can be viewed in the event viewer.
- **Internet Explorer**—The Internet Explorer Web browser allows customers to connect to the Internet or to an intranet (see properties via inetcpl.cpl).
- **Mapi32 Libraries**—The infrastructure for e-mail support.
- **Message Queuing (MSMQ) Core**—Message Queuing is a messaging infrastructure and a development tool for creating distributed messaging applications for Microsoft Windows operating systems. It provides guaranteed message delivery, efficient routing, increased security, support for sending messages within transactions, and priority-based messaging.
- **Microsoft Visual C++ Run Time Libraries**—The Microsoft C++ Runtime Library.
- **Registry Editor:** The Registry Editor (regedit.exe, regedt32.exe).
- **RPC:** Facilitates local remote procedure calls (RPCs) using the ncalrpc and ncacn_np protocol sequences, and provides support for dynamic endpoint resolution. The RPC name service provides remote procedure call (RPC) named services functionality, such as the RPC Locator. The RPC Named Service component exposes all RpcNs* RPC functions. The RPC server provides a variety of RPC and Component Object Model (COM) services, including RPC Endpoint Mapper, COM Service Control Manager (SCM), and COM Object Resolver.
- **Smart Card Cryptographic Service Providers:** Supports features such as smart card logon and improved email security. Smart cards must be able to perform certain RSA public key cryptographic operations. The functions are exposed with CryptoAPI through a CSP. Each type of smart card requires a different CSP (provided by the card vendor).
- **Windows API:** Provides the user-mode component of the Windows operating system API.

- **Windows Media Player 10:** Playback functionality for digital media that includes music, videos, CDs, DVDs, and Internet Radio for end users and developers.
- **Windows Script Engines:** A complete scripting environment for Windows, including command-line scripting, script languages, and the ability to host script engines within your applications.
- **WMI:** Bundles the features that combine to create Windows Management Instrumentation (WMI).

2-5 Device Drivers

The JetBox provides following drivers in accompanied CD-ROM: Audio, LAN, VGA, Watchdog timer

Chapter 3 Supporting Service

3-1 Telnet Server

The Telnet Server allows users to connect to Telnet servers from remote computers. When a Telnet client computer connect to the Telnet server, the remote user is prompted to enter a user name and password. By default, only user name and password combinations that are valid on the local server can be used to log on to that server.

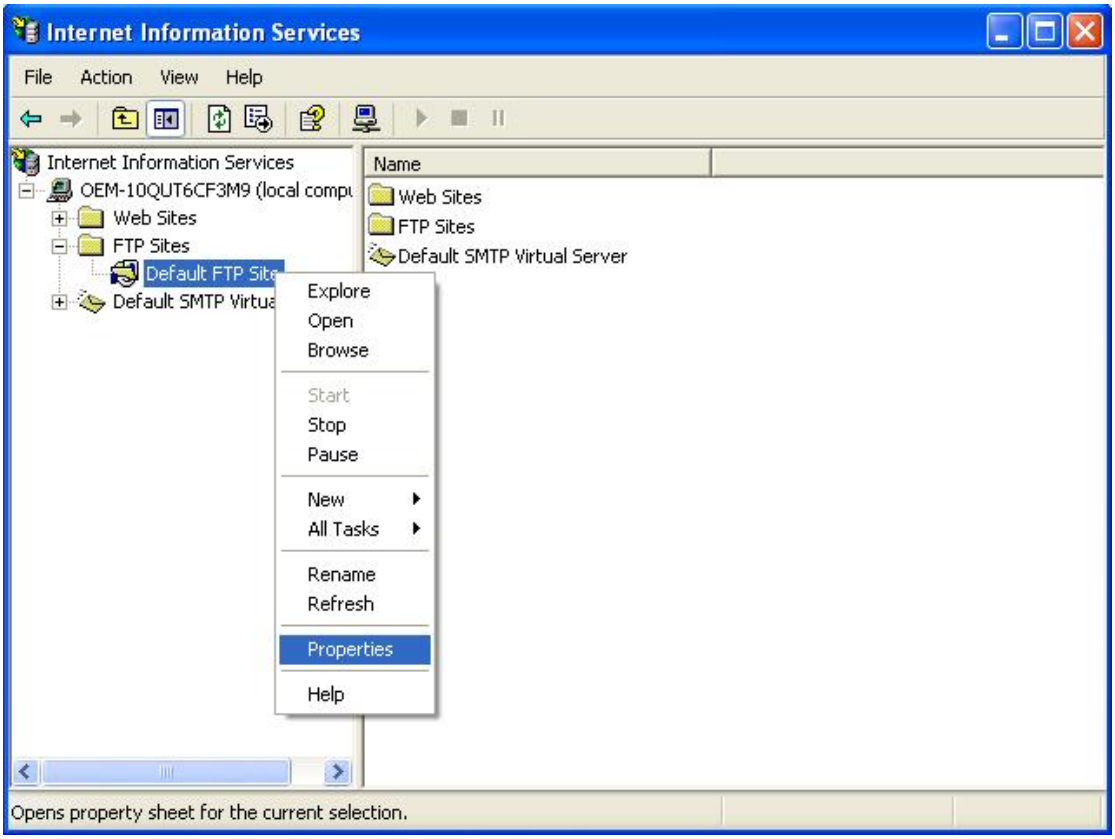
Setting	Default	Description
Enable NTLM authentication	Selected	Specifies whether to use NTLM authentication. By default, this component to set to use both NTLM and password authentication.
Enable password authentication	Selected	Specifies whether to use password authentication. By default, this component to set to use both password and NTLM authentication.
Operation mode	Console	Specifies the mode of operation. Choose one of the following from

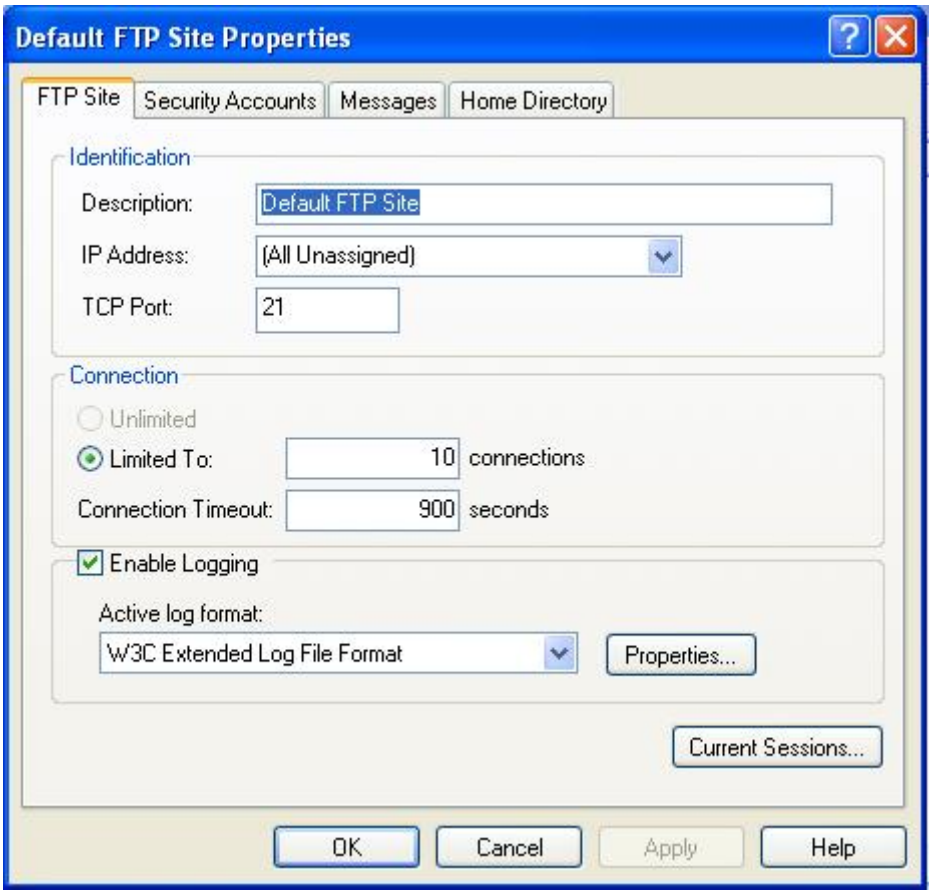
Setting	Default	Description
		the drop-down box: Console, or Stream. Console mode is useful for running screen-oriented programs, such as **vi** (Visual Interface). Stream mode is useful for running command-line applications.
Maximum number of connections	2	Specifies the maximum number of simultaneous connections that can exist to the Telnet server. Set this value to a number ranging from 0 to 2147483647.
Telnet port	23	Specifies the port number for the Telnet server to use to make Telnet connections. Set this port to a number ranging from 1 to 1023. To reduce the number of requests to the Telnet server, set the port number to a lesser-known port on the computer.

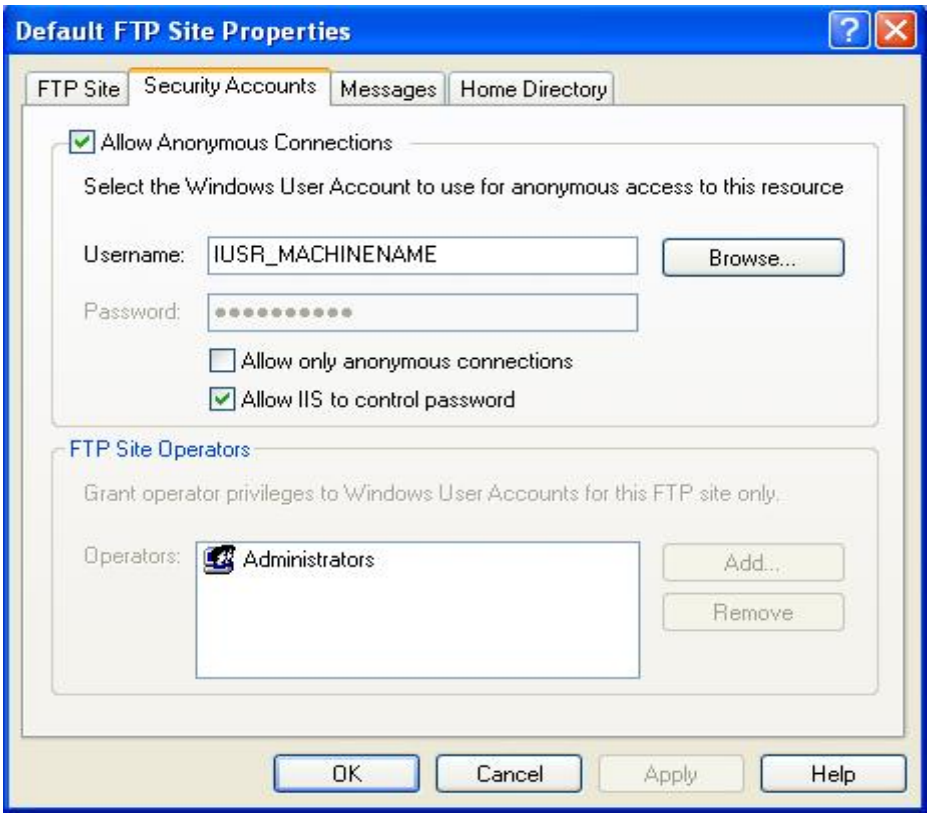
3-2 FTP Server

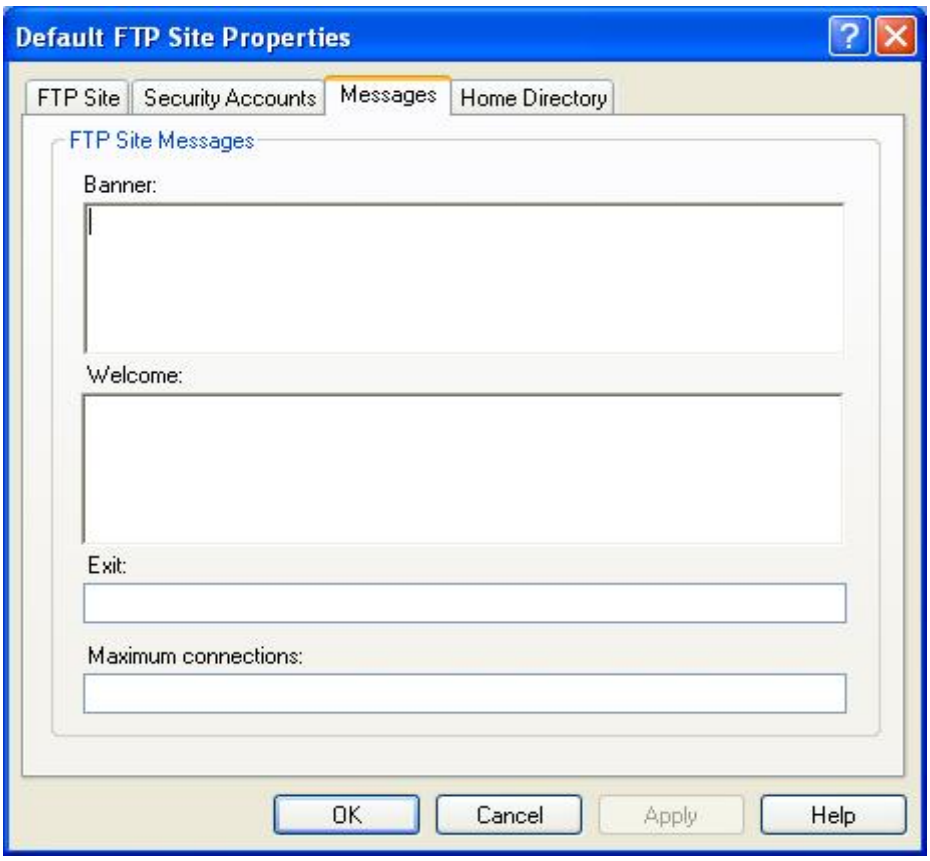
The FTP Server copies files to and from remote computer system on a network using TCP/IP. This component also allows users to use File Transfer Protocol (FTP) commands to work with files, for example, listing files and directories on the remote system.

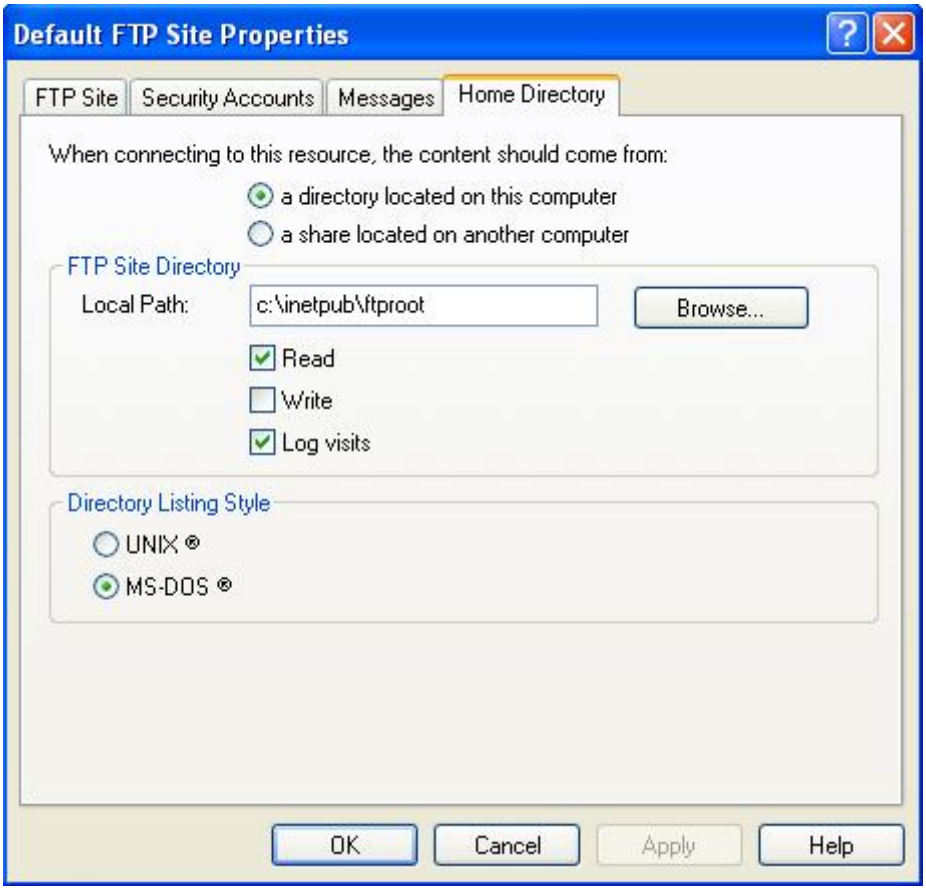
Users can set up FTP properties at following steps.


Internet Information Services
File Action View Help
Internet Information Services
OEM-10QUT6CF3M9 (local compu
Web Sites
FTP Sites
Default FTP Site
Default SMTP Virtua
Name
Web Sites
FTP Sites
Default SMTP Virtual Server
Explore
Open
Browse
Start
Stop
Pause
New
All Tasks
Rename
Refresh
Properties
Help
Opens property sheet for the current selection.


Default FTP Site Properties
FTP Site
Security Accounts
Messages
Home Directory
Identification
Description:
Default FTP Site
IP Address:
(All Unassigned)
TCP Port:
21
Connection
Unlimited
Limited To:
10
connections
Connection Timeout:
900
seconds
Enable Logging
Active log format:
W3C Extended Log File Format
Properties...
Current Sessions...
OK
Cancel
Apply
Help


Default FTP Site Properties
FTP Site
Security Accounts
Messages
Home Directory
Allow Anonymous Connections
Select the Windows User Account to use for anonymous access to this resource
Username:
IUSR_MACHINENAME
Browse...
Password:
Allow only anonymous connections
Allow IIS to control password
FTP Site Operators
Grant operator privileges to Windows User Accounts for this FTP site only.
Operators:
Administrators
Add...
Remove
OK
Cancel
Apply
Help


Default FTP Site Properties
FTP Site
Security Accounts
Messages
Home Directory
FTP Site Messages
Banner:
Welcome:
Exit:
Maximum connections:
OK
Cancel
Apply
Help

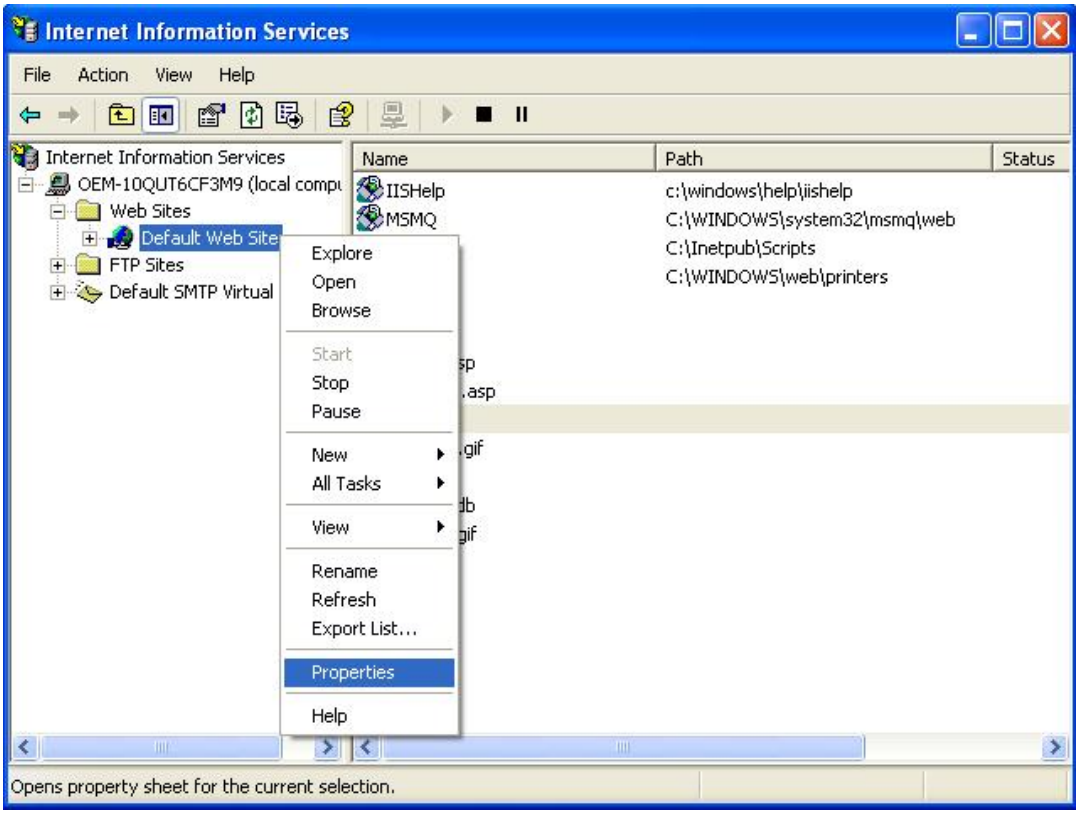


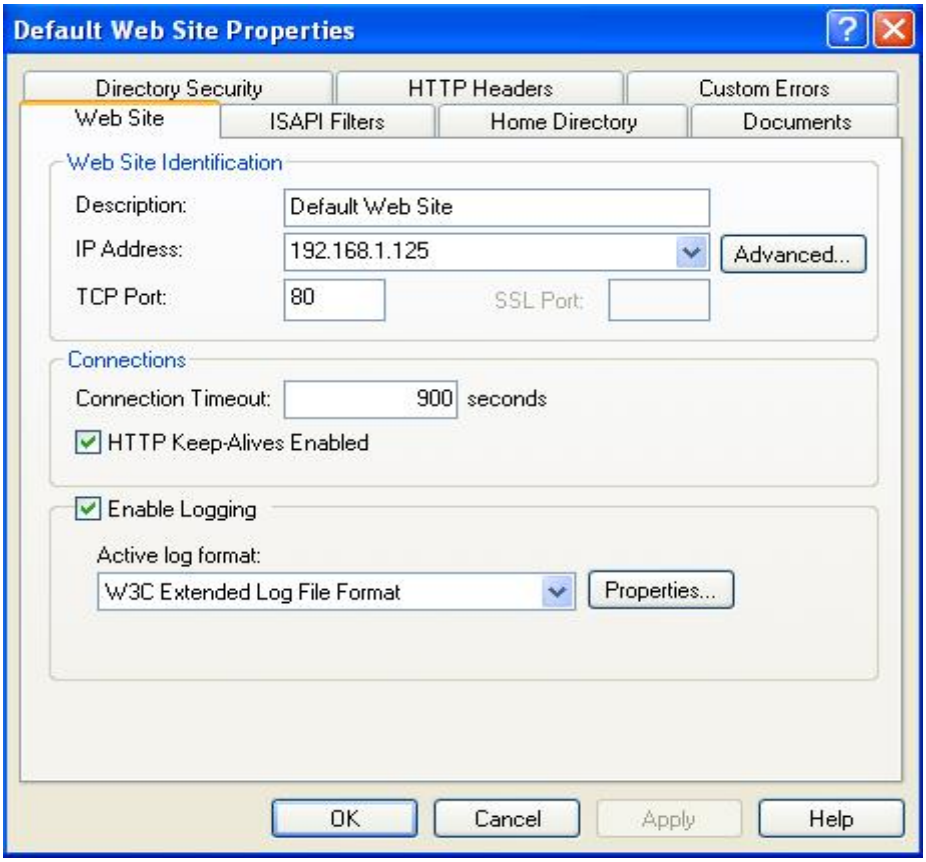
3-3 Web Server

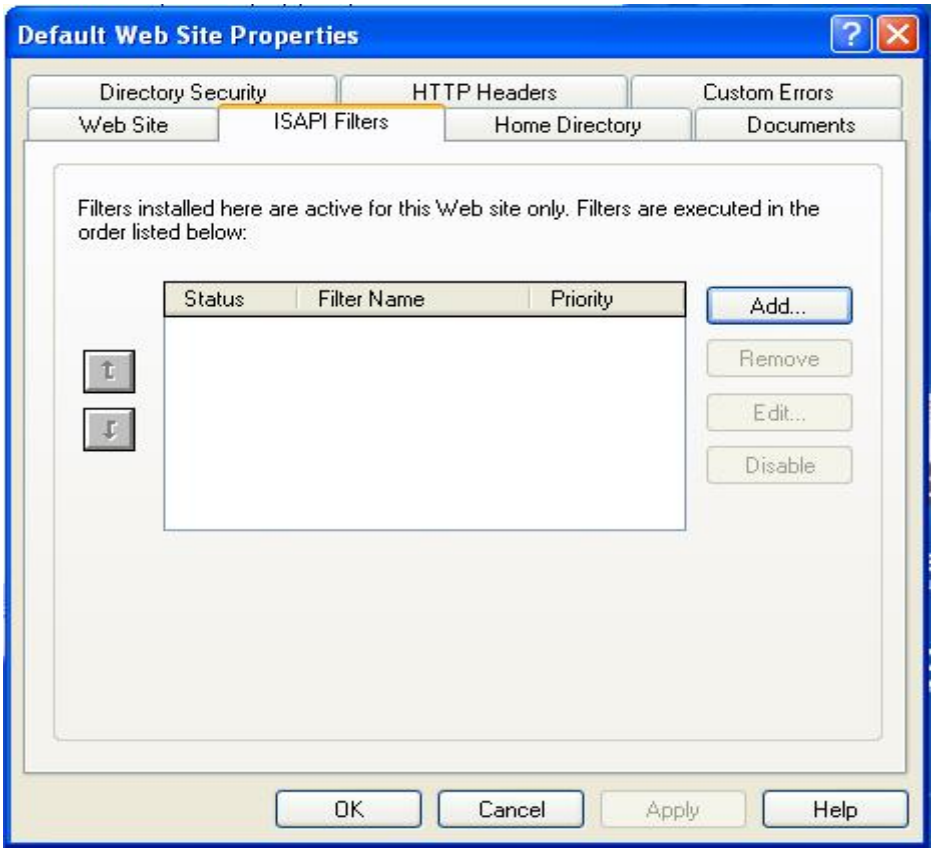
The Web Server (HTTPD) implementation enables you to monitor, configure, and remotely control a device or computer through the use of a Hypertext Transfer Protocol (HTTP) server. The Web Server provides this service for network printers, scanners, and other shared equipment.

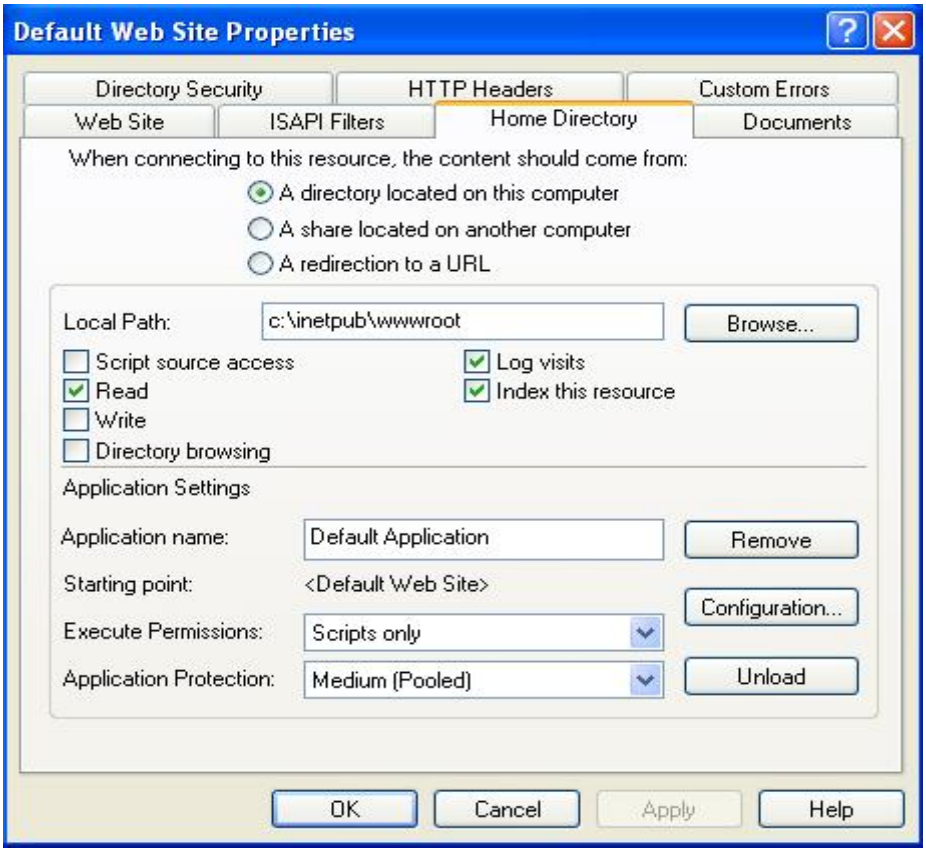
The Web Server applications send Hypertext Markup Language (HTML)pages to a requesting browser. Users only need to have an Internet connection and a browser to be able to make use of the Web Server functionality.

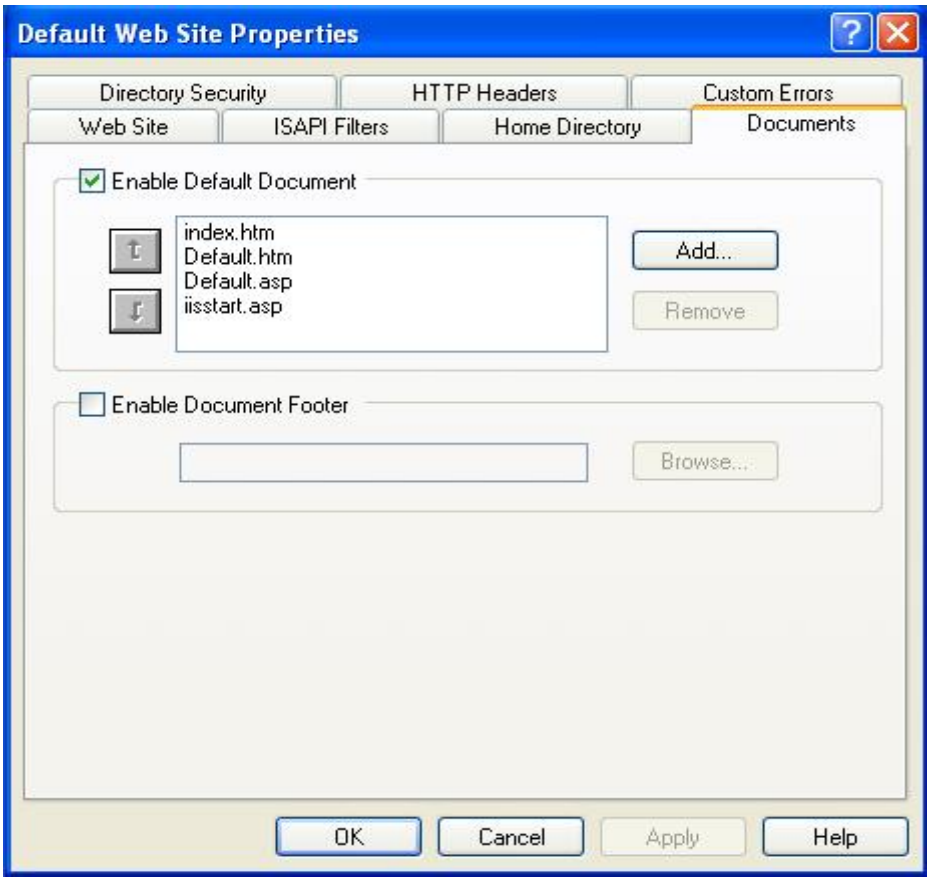
User can set up Web Server Properties at following steps.

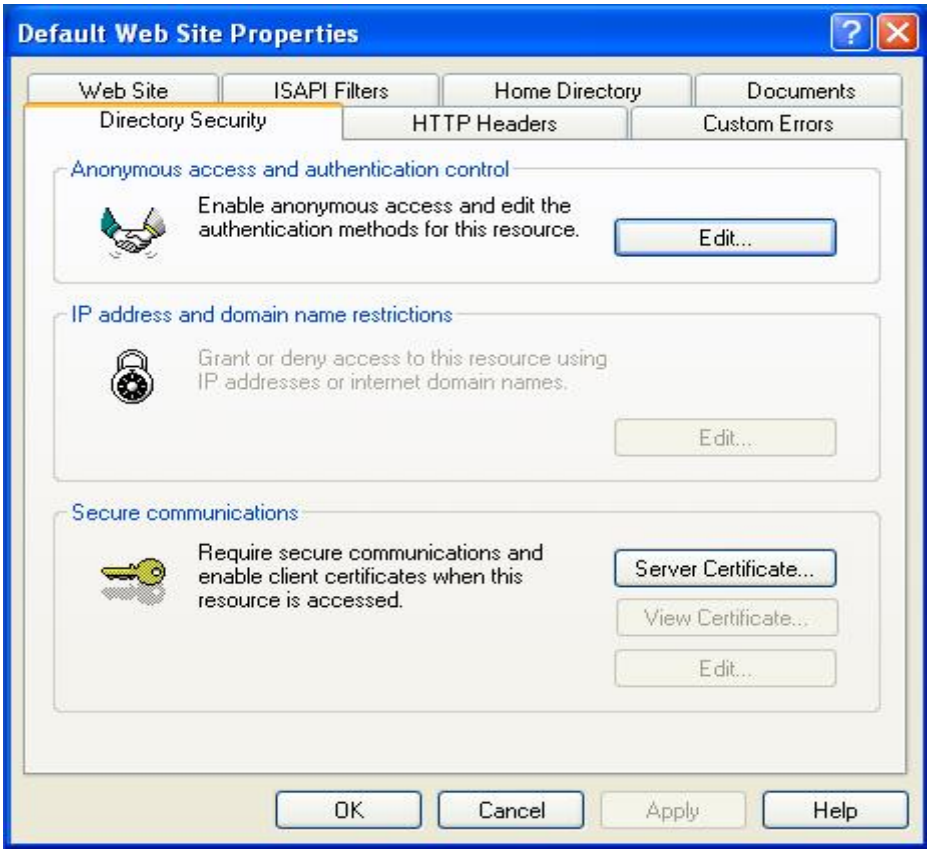

Internet Information Services
File Action View Help
Internet Information Services
OEM-10QUT6CF3M9 (local compu
Web Sites
Default Web Site
FTP Sites
Default SMTP Virtual
Name
Path
Status
IISHelp
c:\windows\help\iishelp
MSMQ
C:\WINDOWS\system32\msmq\web
C:\Inetpub\Scripts
C:\WINDOWS\web\printers
Explore
Open
Browse
Start
Stop
Pause
New
All Tasks
View
Rename
Refresh
Export List...
Properties
Help
Opens property sheet for the current selection.

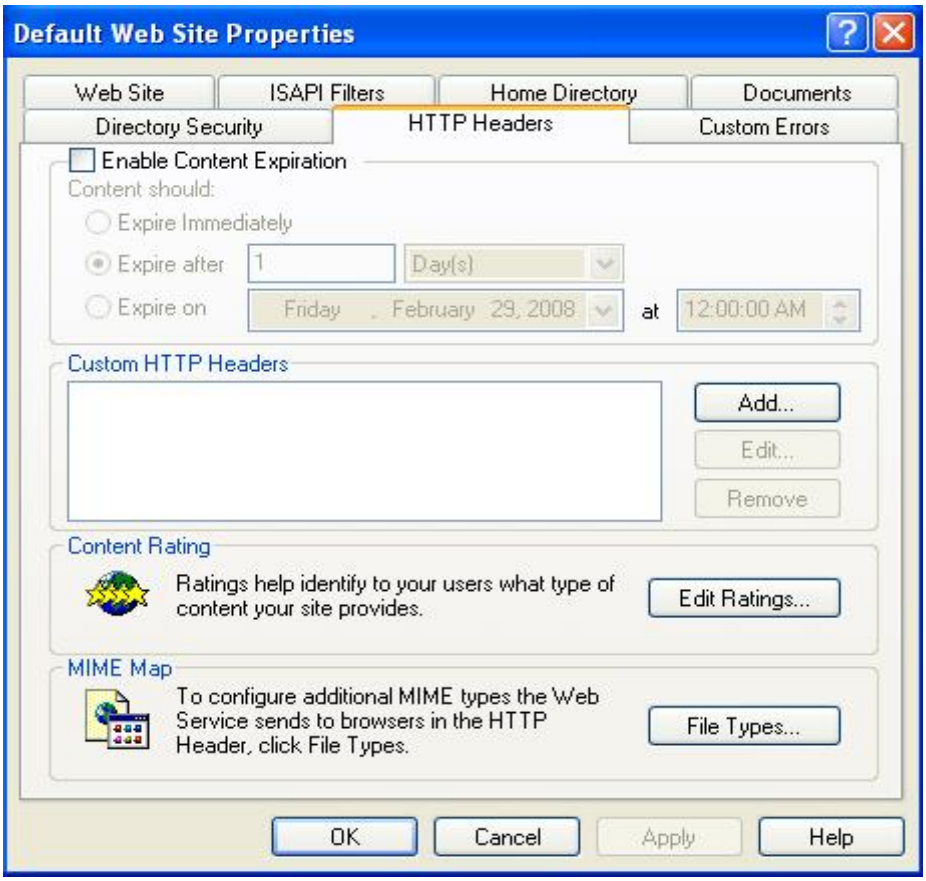

Default Web Site Properties
Directory Security
HTTP Headers
Custom Errors
Web Site
ISAPI Filters
Home Directory
Documents
Web Site Identification
Description:
Default Web Site
IP Address:
192.168.1.125
Advanced...
TCP Port:
80
SSL Port:
Connections
Connection Timeout:
900
seconds
HTTP Keep-Alives Enabled
Enable Logging
Active log format:
W3C Extended Log File Format
Properties...
OK
Cancel
Apply
Help

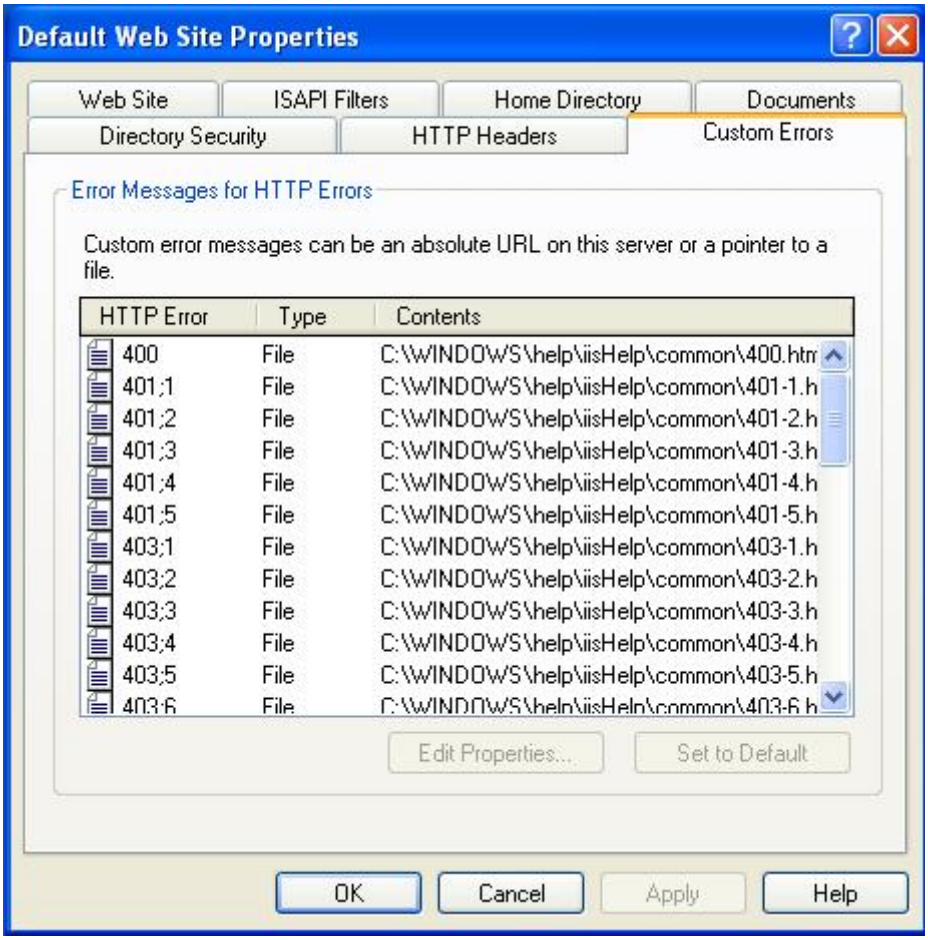

Default Web Site Properties
Directory Security
HTTP Headers
Custom Errors
Web Site
ISAPI Filters
Home Directory
Documents
Filters installed here are active for this Web site only. Filters are executed in the order listed below:
Status
Filter Name
Priority
Add...
Remove
Edit...
Disable
OK
Cancel
Apply
Help


Default Web Site Properties
Directory Security
HTTP Headers
Custom Errors
Web Site
ISAPI Filters
Home Directory
Documents
When connecting to this resource, the content should come from:
A directory located on this computer
A share located on another computer
A redirection to a URL
Local Path:
c:\inetpub\wwwroot
Browse...
Script source access
Read
Write
Directory browsing
Log visits
Index this resource
Application Settings
Application name:
Default Application
Remove
Starting point:
<Default Web Site>
Configuration...
Execute Permissions:
Scripts only
Application Protection:
Medium (Pooled)
Unload
OK
Cancel
Apply
Help


Default Web Site Properties
Directory Security
HTTP Headers
Custom Errors
Web Site
ISAPI Filters
Home Directory
Documents
Enable Default Document
index.htm
Default.htm
Default.asp
iisstart.asp
Add...
Remove
Enable Document Footer
Browse...
OK
Cancel
Apply
Help


Default Web Site Properties
Web Site
ISAPI Filters
Home Directory
Documents
Directory Security
HTTP Headers
Custom Errors
Anonymous access and authentication control
Enable anonymous access and edit the authentication methods for this resource.
Edit...
IP address and domain name restrictions
Grant or deny access to this resource using IP addresses or internet domain names.
Edit...
Secure communications
Require secure communications and enable client certificates when this resource is accessed.
Server Certificate...
View Certificate...
Edit...
OK
Cancel
Apply
Help


Default Web Site Properties
Web Site
ISAPI Filters
Home Directory
Documents
Directory Security
HTTP Headers
Custom Errors
Enable Content Expiration
Content should:
Expire Immediately
Expire after
1
Day(s)
Expire on
Friday , February 29, 2008
at
12:00:00 AM
Custom HTTP Headers
Add...
Edit...
Remove
Content Rating
Ratings help identify to your users what type of content your site provides.
Edit Ratings...
MIME Map
To configure additional MIME types the Web Service sends to browsers in the HTTP Header, click File Types.
File Types...
OK
Cancel
Apply
Help



3-4 Dial up Network Service

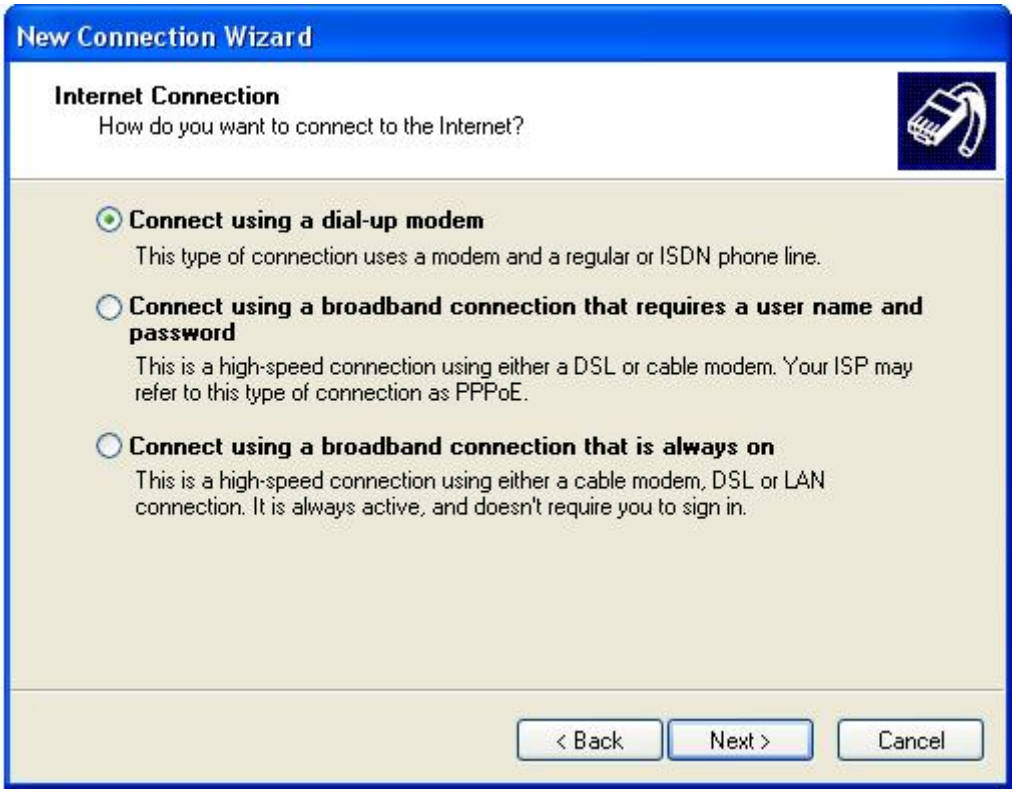
The Dial-up Networking functionality in Windows XP embedded is implemented using Remote Access Service (RAS) and the Point-to-Point Protocol (PPP), Dial-up Networking allows a device to access network resource from a remote location. First, a connection is established with the remote computer, and then the device, or client, can upload and download files.

User can set up Dial-up Networking at following steps.

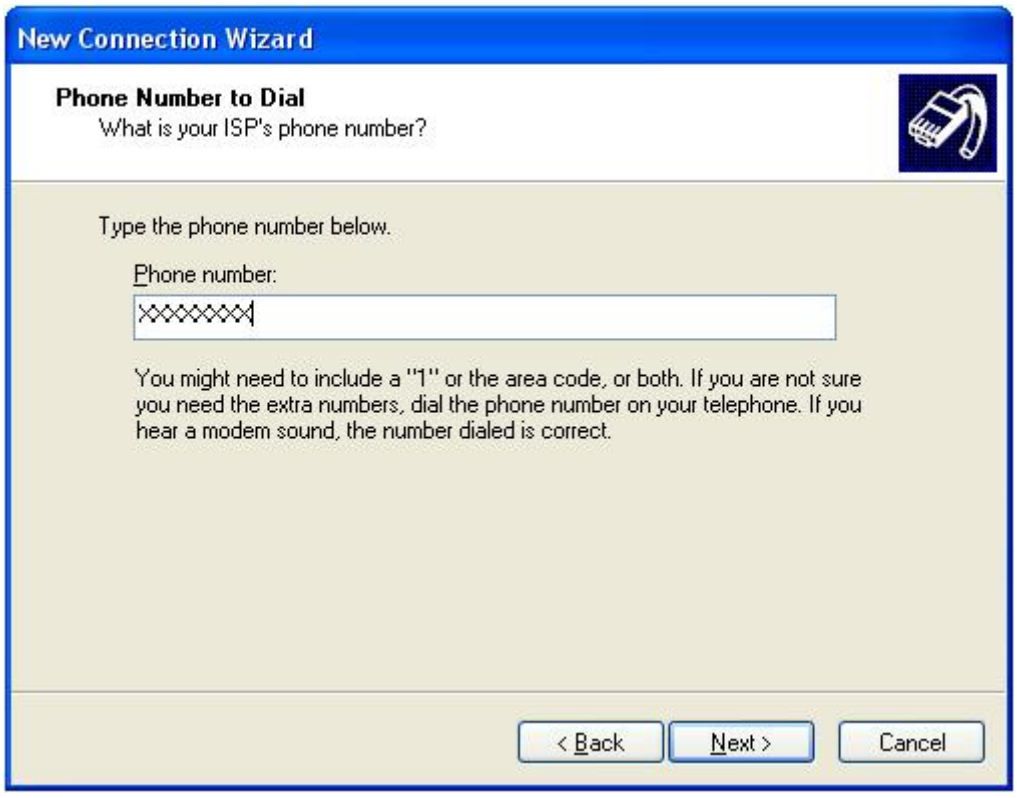

New Connection Wizard
Welcome to the New Connection Wizard
This wizard helps you:
• Connect to the Internet.
• Connect to a private network, such as your workplace network.
• Set up a home or small office network.
To continue, click Next.
< Back
Next >
Cancel


New Connection Wizard
Network Connection Type
What do you want to do?
Connect to the Internet
Connect to the Internet so you can browse the Web and read email.
Connect to the network at my workplace
Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location.
Set up a home or small office network
Connect to an existing home or small office network or set up a new one.
Set up an advanced connection
Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.
< Back
Next >
Cancel


New Connection Wizard
Getting Ready
The wizard is preparing to set up your Internet connection.
How do you want to connect to the Internet?
Choose from a list of Internet service providers (ISPs)
Set up my connection manually
For a dial-up connection, you will need your account name, password, and a phone number for your ISP. For a broadband account, you won't need a phone number.
Use the CD I got from an ISP
< Back
Next >
Cancel

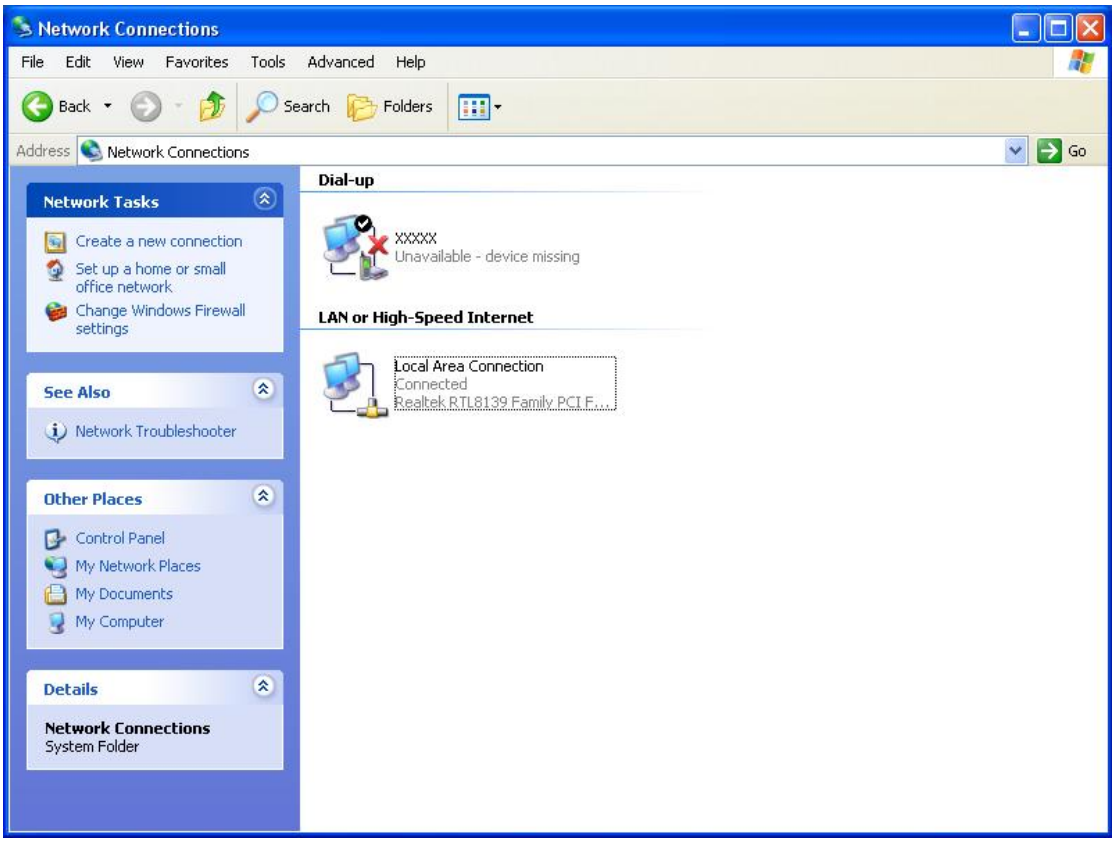

New Connection Wizard
Internet Connection
How do you want to connect to the Internet?
Connect using a dial-up modem
This type of connection uses a modem and a regular or ISDN phone line.
Connect using a broadband connection that requires a user name and password
This is a high-speed connection using either a DSL or cable modem. Your ISP may refer to this type of connection as PPPoE.
Connect using a broadband connection that is always on
This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in.
< Back
Next >
Cancel


New Connection Wizard
Connection Name
What is the name of the service that provides your Internet connection?
Type the name of your ISP in the following box.
ISP Name
XXXXX
The name you type here will be the name of the connection you are creating.
< Back
Next >
Cancel


New Connection Wizard
Phone Number to Dial
What is your ISP's phone number?
Type the phone number below.
Phone number:
XXXXXXXX
You might need to include a "1" or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct.
< Back
Next >
Cancel


New Connection Wizard
Internet Account Information
You will need an account name and password to sign in to your Internet account.
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)
User name:
XXX
Password:
Confirm password:
Use this account name and password when anyone connects to the Internet from this computer
Make this the default Internet connection
< Back
Next >
Cancel


New Connection Wizard
Completing the New Connection Wizard
You have successfully completed the steps needed to create the following connection:
XXXX
Make this the default connection
Share with all users of this computer
Use the same user name & password for everyone
The connection will be saved in the Network Connections folder.
Add a shortcut to this connection to my desktop
To create the connection and close this wizard, click Finish.
< Back
Finish
Cancel



3-5 Serial Port Operation Mode

Please refer to the HW manual for serial port setting.

Chapter 4 Software Configuration

For Windows XP embedded details, you can go to Microsoft online resources for more information.

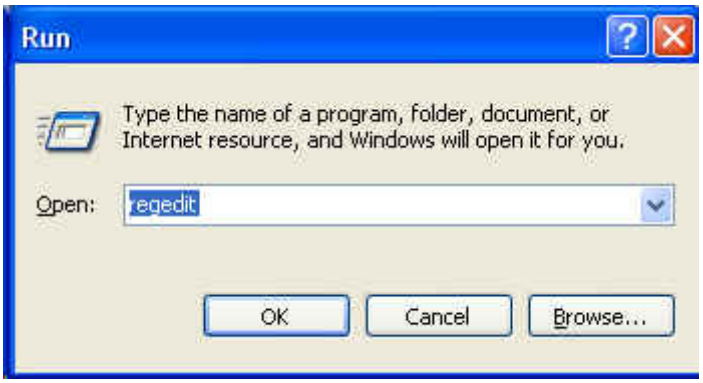
- The Windows Embedded Developer Center, supported by the Microsoft Developer Network (MSDN), provides detailed technical information, training, and community support: http://msdn.microsoft.com/en-us/library/dd256986.aspx
- For general product information, please visit http://www.microsoft.com/windowsembedded/en-us/default.mspx

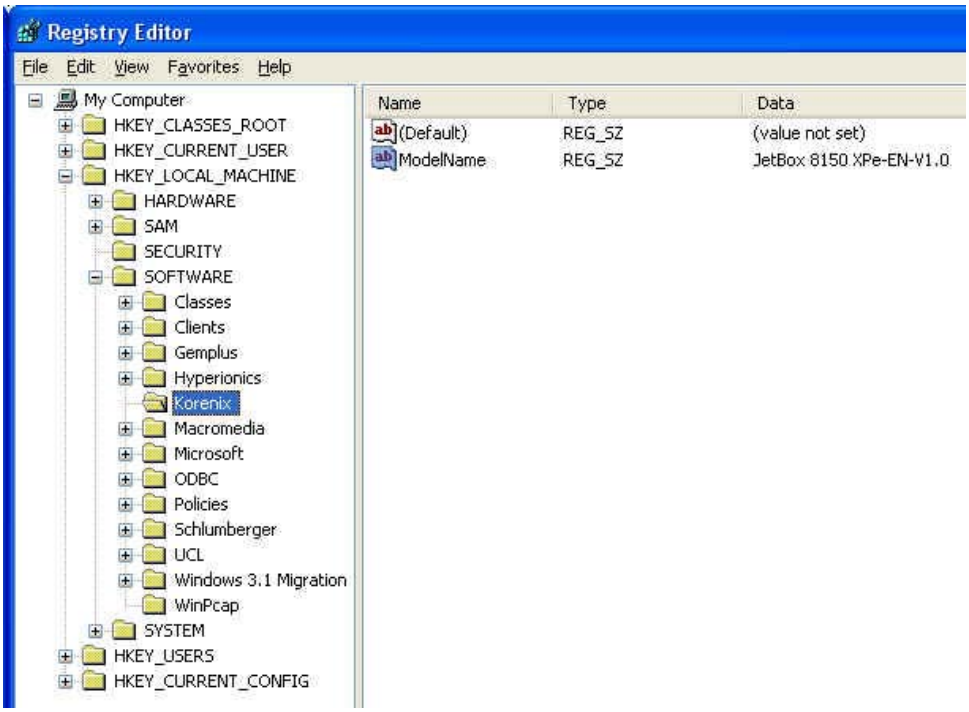
4-1 XPe Firmware Version

Go to **Start→Run** and type regedit

You can check the XPe firmware version under the directory

HKEY_LOCAL_MACHINE\SOFTWARE\Korenix





4-2 Multiple Language & Multiple User Interface (MUI)

The JetBox platform is US English user interface and supports multiple languages such as English, Simplified Chinese, Traditional Chinese, French, German, Italian, Japanese, Korean, Russian, Spanish, Spanish, and Portuguese.

Even though the user interface is US English, other user interface support can be added to a configuration to create a localized run-time image.

Korenix provides multi-language or multi-user-interface customization service. If you have any specific requirements, please contact Korenix directly.

4-3 File-based Write Filter (FBWF)

File-Based Write Filter (FBWF) allows Windows XP Embedded (XPe) to maintain the appearance of read and write access to write sensitive or read only storage. FBWF makes read and write access transparent to applications.

FBWF manager

The FBWF Manager is a command line tool for embedded developers to quickly integrate and prototype the FBWF. FBWF Manager is intended primarily for design time use.

The FBWF Manager command line syntax follows:

fbwfmgr [/? | /help /[switch] | /displayconfig | /overlaydetail | /enable | /disable | /addvolume [volumename] | /removevolume [volumename] [1|0] | /addexclusion [path] | /removeexclusion [path] | /setthreshold [threshold] | /setcompression [1|0] | /setpreallocation [1|0] /commit [volumename] [filepath] /restore [volumename] [filepath]]

The following table describes the command line switches.

Switch	Description

Switch	Description
displayconfig	Displays all configuration information for the write filter including protected volumes list, overlay configuration and write through paths. The command returns: State—Indicating current filter state (enable or disable) and state for next boot. Protected Volumes—List of protected volumes including the current and next boot state. Compression—Current and next boot state for cache compression. Threshold—Current and next boot values for the overlay cache threshold. Write Through Paths—Displays a complete list of active and next boot write through paths. Pre-allocation Status—Displays current and next boot status for cache pre-allocation.
overlaydetail	Displays detail on the current overlay contents for all protected volumes. The command returns: Contents—Files and folders currently in the overlay for all protected volumes including sizes (size of data in overlay) and open file handles. Memory Usage—Total amount of memory being consumed by the overlay.
enable	Enables the write filter on the next restart.
disable	Disables the write filter on the next restart.
addvolume	Adds a volume to the protected volume list for next boot.
removevolume	Removes a volume from the protected volume list for next boot.
addexclusion	Adds a write through path to the exclusion list for next boot.
removeexclusion	Removes a write through path from the exclusion list for next boot.
setthreshold	Sets the overlay threshold value for next boot.
setcompression	Sets overlay compression as enabled (1) or disabled (0) for next boot.
setpreallocation	Sets cache pre-allocation as enabled (1) or disabled (0) for next boot.
commit	Commits the changes made to the file to the underlying media.

Switch	Description
	The volume name can either be a case-insensitive volume device name (for example, "\\Device\\HarddiskVolume1"), or a drive letter (for example, "C:" or "D:"). Note that the name is not the volume label that Windows Explorer displays before the drive letter. The file path must be an absolute path starting with "\". Note that the volume must currently be protected. Otherwise, the error message "The system cannot find the drive specified" is displayed.
restore	Discards the changes made to the file, that is, restores the files to its original contents from the underlying media. The volume name can either be a case-insensitive volume device name (for example, "\\Device\\HarddiskVolume1"), or a drive letter (for example, "C:" or "D:"). Note that the name is not the volume label that Windows Explorer displays before the drive letter. The file path must be an absolute path starting with "\". It must be a file. It is acceptable that the file was deleted, in which case it is recovered. Note that the volume must currently be protected. Otherwise, the error message "The system cannot find the drive specified" is displayed.
?	Displays usage and help.
help / [switch]	Displays help information for a specific FBWF Manager switch.

If no switch is provided the FBWF Manager displays all the configuration information, just like the DisplayConfig switch.

The following table describes the input parameters.

Input field	Meaning
volumename	Full path to a volume
1	Remove exclusion list
0	Preserve exclusion list
path	Full file or directory path, including the drive letter. Please note that file names are passed to fbwfmgr as a command line argument, which means backslashes and double quotes are interpreted differently. For

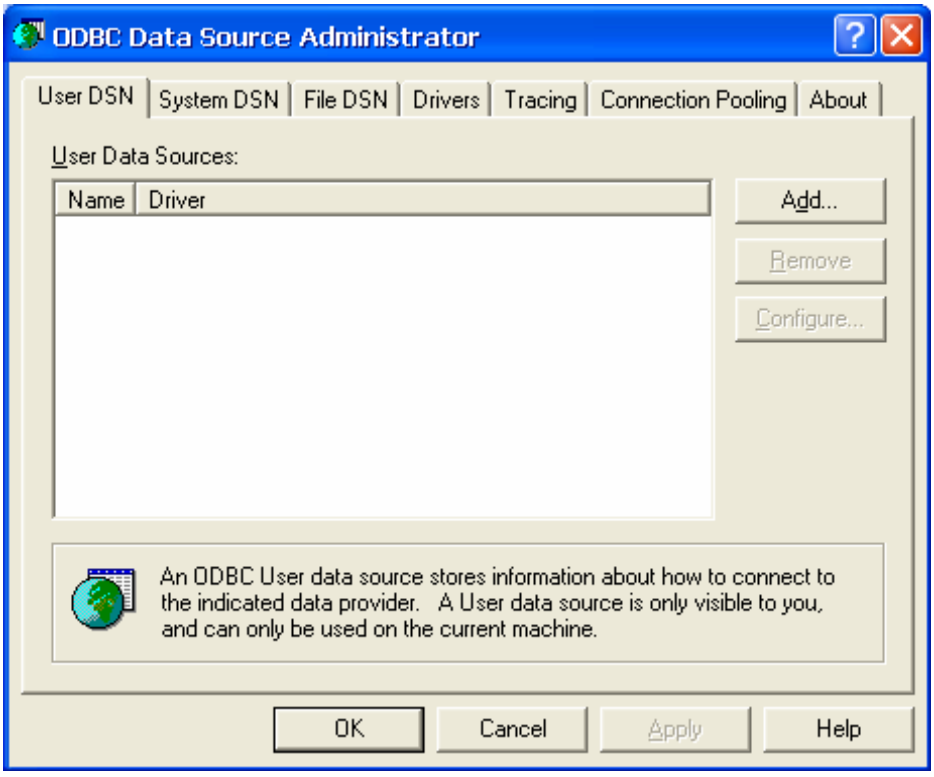
	example, **\"file name"** becomes simply **"file name"** because the first backslash acts as an escape character. To get **\"file name"**, specify **\\"file name"** on the command line.
threshold	Overlay threshold in MB

FBWF does not resolve substituted paths, use complete file names instead.

4-4 ODBC Data Source Administrator

Go to **Control Panel→Administrative tools→ODBC**

This is a database source configuration tool for users to add, delete, or set up a data source and display information about the installed ODBS drivers. You can create a new data source or trace the calls to ODBC functions.



4-5 Recovery CD

In some severe circumstances, such as when a run-time image is corrupted, it may be necessary to start your device from a bootable CD (recovery CD). Korenix provides the recovery CD of the JetBox to install a new copy of the run-time image that was

installed onto the JetBox before it left the factory.

Following is the step by step to use the recovery CD:

1. Plug a USB keyboard into the JetBox
2. Plug a USB CD-ROM into the JetBox and Insert the recovery CD into the USB CD-ROM
3. Change the BIOS boot device setting of the JetBox
   3.1 When the JetBox boots up, press the “Delete” key on the keyboard to enter the BIOS setting
   3.2 Choose the “Advanced BIOS Features” item from the “Initial Setup Screen” menu.
   3.3 Change the first boot device from “HDD-0” to USB-CDROM”, then save and exit Setup dialogue.
4. The JetBox is booted from the USB CD-ROM and the recovery procedure runs automatically

4-6 Visual Studio 2005

Microsoft Windows XP Embedded is a componentized version of the Microsoft Windows XP Professional operating system that uses the same binary source code. This shared binary source code makes it possible for Windows XP Embedded to provide device operating systems that are not only scalable and feature-rich, but also fully compatible with Windows XP Professional. This means that you can use existing Windows-based applications on your devices. And you can use many of the same resources for embedded application development that are used to develop applications for Windows XP Professional. For example, application developers for Windows XP Embedded can use Microsoft Visual Studio to program to Windows application programming interfaces (APIs).

Visual Studio 2005 (VS 2005) is an integrated IDE enabling development of C++, C#, and Visual Basic and J# applications under one roof. It includes numerous features that help in building windows applications with less effort. The IDE is designed primarily for building applications with any .NET languages. The IDE includes features like an automatic build utility, a syntax highlighter, an easy-to-use debugger and many more.

Chapter 5 Customer Service

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