



Powering Devices Fueled By Your Imagination

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## Licensing Model for Windows CE

The following is a comprehensive listing of the operating system components associated with the run-time licensing model for Microsoft® Windows® CE 5.0 and Windows CE .NET 4.2.

The low pricing provides device manufacturers enhanced levels of flexibility in utilizing the rich features of Windows CE across the breadth of their product lines, while helping to reduce development and licensing costs. Development toolkits and run-times are available for purchase from authorized Microsoft Embedded Distributors. Visit <http://msdn.microsoft.com/embedded/howtobuy> for worldwide distributor information.

### Pricing

Development toolkit	\$ 995 US (ERP)
Run-time license options:	
Core	\$ 3 US (ERP)
Professional	\$ 16 US (ERP)

\*File Viewers can be purchased as a Professional Plus run-time license option.

\* All prices listed above are based on US dollars and are estimated retail prices which may vary by distributor.

The Core run-time license provides a hard real-time operating system kernel with robust file system, extensive networking and communications technologies, advanced multimedia capabilities, digital rights management, as well as a powerful application development platform. The Core license is ideal for low-cost devices, such as gateways, entry-level voice over IP (VoIP) phones, industrial automation equipment, and consumer electronic devices such as CD players, digital cameras, and networked DVD players.

Below is a list of frequently asked questions that may assist you in making a decision about which run-time license is most appropriate for your design. For further pricing and licensing, please contact your local [Authorized Microsoft Windows Embedded Distributor](#). A table representing a comprehensive list of the catalog features associated with each run-time license option follows the frequently asked questions. An "x" in the box indicates that the corresponding catalog item is included in the particular run-time license.

**Important Note:** Some items included in this list may only be found in Windows CE 5.0 and may not be backported to Windows CE .NET 4.2.

## Frequently Asked Questions:

### **How does this change pricing for previous versions of Windows CE?**

This does not affect pricing for previous versions of Windows CE. There is no direct equivalent of the Core feature set to any previous version of Windows CE because it incorporates some of the new functionality in version 4.2 and 5.0, such as the Telephony User Interface, the Microsoft .NET Compact Framework, and Windows Error Reporting. For detailed information on the run-time pricing across the various versions of Windows CE, contact your local [Authorized Microsoft Windows Embedded Distributor](#).

### **What kind of devices can be built using the Core functionality?**

The Core run-time license is targeted to the low-end device market—such as gateways, wireless access points, and various types of VoIP solutions that require base level functionality and may not require the full richness of the entire Windows CE feature set. The Core run-time license is designed so these types of devices can utilize the power of Windows CE capabilities best suited to their requirements while leveraging a cost-effective pricing model. If companies choose to create a full-featured device, they have the option of implementing their own enhancements on top of the Core feature set or licensing additional Windows CE functionality.

### **There is a perception that Linux is free, so why would someone choose to pay \$3 for an operating system when building a device?**

There certainly is a perception that Linux is free, but that can be misleading. Software licensing costs often are only a small part of the overall cost of developing and maintaining a total solution. We believe that when the full range of costs are fairly considered, Windows Embedded operating systems, and especially the new, low-cost Windows CE Core offering, compare very favorably with embedded Linux in terms of the total cost of development. The Windows Embedded operating systems offer:

- Very low-price development tools for Windows CE (\$995 per developer). Linux vendors typically charge significant costs for development tools from \$2,500-\$10,000 per developer. This may equate to between 3 and 10 times that of a Windows CE offering.
- Additional benefits that a commercial operating system provides beyond what can be offered by open source. In the low-end space, Windows CE provides:
  - Best of class features and powerful development tools
  - Fully tested, quality product updates
  - A professional and predictable support model

If you are interested in learning more about the benefits of Windows CE or about new and enhanced features, see the [Windows CE 5.0 Overview](#).

### **Windows CE Licenses: Functionality Comparison Chart**

The Windows CE product catalog contains only the optional features of the operating system. For reference purposes, the names in the *Catalog* column of the table below map directly to the catalog, so those sysgen variables that appear several times in the catalog do the same here. Indentations in the table indicate the deep tree structure of the product catalog. For a complete description of each feature that appears in the product catalog, please see [Catalog Features](#) in the online product documentation.

**Note:** An asterisk (\*) by several features indicates that we feel these features require additional clarification. Please see the end of the document for further information.

APPLICATIONS AND SERVICES DEVELOPMENT		
Active Template Library (ATL)	x	x
C Libraries and Runtimes	x	x
C++ Runtime Support for Exception Handling and Runtime Type Information	x	x
Full C Runtime	x	x
Standard I/O (STDIO)	x	x
Standard I/O ASCII (STDIOA)	x	x
String Safe Utility Functions	x	x
Standard String Functions - ASCII (corestra)	x	x
Component Services (COM and DCOM)	x	x
Component Object Model	x	x
COM	x	x
CoCreateGuid functionality for OLE32	x	x
COM Storage	x	x
DCOM	x	x
COM Storage	x	x
DCOM Remote Access	x	x
Minimal COM (No OLE Support)	x	x
CoCreateGuid functionality for OLE32	x	x
COM Storage	x	x
Speech Interface	x	x
Speech API (SAPI) 5.0	x	x
Microsoft English (US) Windows CE Speech Recognizer (available in 4.2 only)*		x
Lightweight Directory Access Protocol (LDAP) Client	x	x
Message Queuing (MSMQ)	x	x
SOAP Reliable Messaging Protocol (SRMP)	x	x
MSMQ ActiveX Wrappers	x	x
Microsoft Foundation Classes (MFC)	x	x
Object Exchange Protocol (OBEX)	x	x
OBEX Server	x	x
OBEX Inbox	x	x
OBEX File Browser	x	x
OBEX Client	x	x
Pocket Outlook Object Model (POOM) API		x
SOAP Toolkit	x	x
Client	x	x
Server	x	x
Standard SDK for Windows CE		x
.NET Compact Framework	x	x
OS Dependencies for .NET Compact Framework 1.0	x	x
Smart Device Authentication Utility	x	x
.NET Compact Framework 1.0	x	x
SQL Server CE 2.0 .NET Data Provider	x	x
SQL Server 2000 .NET Data Provider	x	x
SQL Server CE 2.0	x	x

Catalog	Core	Professional
XML	x	x
MSXML 3.0	x	x
XML Core Services and Document Object Model (DOM)	x	x
XML HTTP	x	x
XML Query Languages (XQL)	x	x
XML Stylesheet Language Transformations (XSLT)	x	x
XML SAX	x	x
XML Error Strings	x	x
XML Minimal Parser	x	x
Exchange Client	x	x
<b>APPLICATIONS - END USER</b>		
ActiveSync		x
File Sync	x	x
Inbox Sync		x
Pocket Outlook Database Sync		x
CAB File Installer/Uninstaller	x	x
File Viewers*		
Microsoft Excel Viewer*		
Microsoft Image Viewer*		
Microsoft PDF Viewer*		
Microsoft PowerPoint Viewer*		
Microsoft Word Viewer*		
FLASH Update Sample Application	x	x
Games	x	x
Freecell	x	x
Solitaire	x	x
Help*		x
Inbox		x
Remote Desktop Connection		x
Remote Desktop Protocol (RDP)		x
User Interface Dialog Boxes		x
Smart Card Redirection		x
File Storage Redirection		x
Filtered File Storage Redirection		x
Cut/Copy/Paste Clipboard Redirection		x
Serial and Parallel Port Redirection		x
Audio Playback Redirection		x
Printer Redirection		x
Terminal Emulator	x	x
Windows Messenger		x
WordPad		x
<b>CORE OS SERVICES</b>		
Battery Driver	x	x
Display Support	x	x
Serial Port Support	x	x

Parallel Port Support	x	x
Internet Appliance (IABASE) Support	x	x
Notification LED Support	x	x
PNP Notifications	x	x
USB Host Support	x	x
USB Human Input Device (HID) Class Driver	x	x
USB HID Keyboard and Mouse	x	x
USB HID Keyboard Only	x	x
USB HID Mouse Only	x	x
USB Printer Class Driver	x	x
USB Storage Class Driver	x	x
USB Remote NDIS Class Driver	x	x
Debugging Tools	x	x
Keyboard Test Application	x	x
Touch Driver Test Application	x	x
Remote Display Application	x	x
Tiny Kernel Test Sample Application	x	x
Toolhelp API	x	x
LMemDebug Memory Debugging Hooks	x	x
Notification (Choose 1)	x	x
UI based Notification	x	x
Non UI based Notification	x	x
Power Management (Choose 1)	x	x
Power Management (Full)	x	x
Power Management (Minimal)	x	x
Device Manager	x	x
Kernel Features	x	x
Target Control Support (Shell.exe)	x	x
Fiber API	x	x
FormatMessage API	x	x
Memory Mapped Files	x	x
Message Queue - Point-to-Point	x	x
<b>COMMUNICATIONS SERVICES AND NETWORKING</b>		
Networking Features	x	x
Domain Discovery	x	x
Extended DNS Querying and Update (DNSAPI)	x	x
Secure DDNS	x	x
Extensible Authentication Protocol	x	x
Firewall	x	x
Internet Connection Sharing (ICS)	x	x
Gateway Logging	x	x
IPSec v4	x	x
NDIS Packet Capturing DLL	x	x
NDIS User-mode I/O Driver	x	x
Network Bridging	x	x

	Core	Professional
Network Driver Architecture (NDIS)	x	x
Network Utilities (IpConfig, Ping, Route)	x	x
Reference Gateway User Interface	x	x
Remote Configuration Framework	x	x
TCP/IP	x	x
IP Helper API	x	x
TCP/IPv6	x	x
Universal Plug and Play (UPnP)	x	x
Control Point API	x	x
Device Host API	x	x
Device Host API (Minimal Subset)	x	x
Sample UPnP IGD Schema Implementation	x	x
UPnP Tools	x	x
UPnP Audio-Video DCP	x	x
AV Control Point API	x	x
AV Device API	x	x
AV Renderer Sample		x
USB Flash Config Tool	x	x
Windows Networking API/Redirector (SMB/CIFS)	x	x
Winsock Support	x	x
Networking - Local Area Network (LAN)	x	x
Native Wi-Fi WLAN Access Point Components	x	x
Native Wi-Fi WLAN STA	x	x
Wired Local Area Network (802.3, 802.5)	x	x
Wireless LAN (802.11) STA - Automatic Configuration and 802.1x	x	x
Networking - Personal Area Network (PAN)	x	x
Bluetooth	x	x
Bluetooth Protocol Stack with Transport Driver Support	x	x
Bluetooth Stack with Integrated CSR Chipset Driver	x	x
Bluetooth Stack with Universal Loadable Driver	x	x
Bluetooth Stack with Integrated SDIO Driver	x	x
Bluetooth Stack with Integrated USB Driver	x	x
Bluetooth Stack with Integrated UART Driver	x	x
Bluetooth Profiles Support	x	x
Bluetooth HS/HF and Audio Gateway Service	x	x
Bluetooth LAP and Configuration Utility		x
Bluetooth DUN Gateway	x	x
Bluetooth PAN	x	x
Bluetooth HID Device Support	x	x
Bluetooth HID - Keyboard	x	x
Bluetooth HID - Mouse	x	x
IrDA	x	x
Networking - Wide Area Network (WAN)	x	x
Dial Up Networking (RAS/PPP)	x	x
AutoDial	x	x

Standard Modem Support for Dial Up Networking	x	x
Point-to-Point Protocol over Ethernet (PPPoE)	x	x
Telephony API (TAPI 2.0)	x	x
Unimodem support	x	x
Virtual Private Networking	x	x
PPTP	x	x
L2TP/IPSec	x	x
Servers	x	x
Core Server Support	x	x
FTP Server	x	x
File Server	x	x
File Server Customizable UI	x	x
Windows Peer-to-Peer Networking	x	x
Peer Name Resolution Protocol (PNRP)	x	x
Identity Manager	x	x
Print Server	x	x
RAS Server/PPTP Server (Incoming)		x
Telnet Server	x	x
Web Server (HTTPD)	x	x
Active Server Pages (ASP) Support	x	x
JScript 5.6	x	x
VBScript 5.6	x	x
Device Management ISAPI Extension	x	x
WebDAV Support	x	x
Web Server Administration ISAPI	x	x
Web Proxy	x	x
Parental Controls	x	x
Simple Network Time Protocol (SNTP)	x	x
SNTP Server	x	x
SNTP Client with DST	x	x
SNTP Automatic Updates and Server Synchronization	x	x
<b>DEVICE MANAGEMENT</b>		
Device Management Client	x	x
Simple Network Management Protocol (SNMP)	x	x
<b>FILE SYSTEMS AND DATA STORE</b>		
Compression	x	x
Database Support	x	x
File and Database Replication (Choose 1)	x	x
Bit-based	x	x
Count-Based	x	x
File System - Internal (Choose 1)	x	x
RAM and ROM File System	x	x
ROM-only File System	x	x
Registry Storage (Choose 1)	x	x
Hive-based Registry	x	x

RAM-based Registry	x	x
Storage Manager	x	x
Binary Rom Image File System	x	x
Storage Manager Control Panel Applet	x	x
EDB Database Engine	x	x
Partition Driver	x	x
CD/UDFS File System	x	x
FAT File System	x	x
Transaction-Safe FAT File System (TFAT)	x	x
System Password	x	x
<b>FONTS</b>		
Arial	x	x
Arial (Subset 1_30)	x	x
Arial Black	x	x
Arial Bold	x	x
Arial Bold Italic	x	x
Arial Italic	x	x
Comic Sans MS	x	x
Comic Sans MS	x	x
Comic Sans MS Bold	x	x
Courier New	x	x
Courier New (Subset 1_30)	x	x
Courier New Bold	x	x
Courier New Bold Italic	x	x
Courier New Italic	x	x
Georgia	x	x
Georgia	x	x
Georgia Bold	x	x
Georgia Bold Italic	x	x
Georgia Italic	x	x
Impact	x	x
Kino	x	x
MSLogo	x	x
Symbol	x	x
Tahoma	x	x
Tahoma (Subset 1_07)	x	x
Tahoma Bold	x	x
Times New Roman	x	x
Times New Roman (Subset 1_30)	x	x
Times New Roman Bold	x	x
Times New Roman Bold Italic	x	x
Times New Roman Italic	x	x
Trebuchet MS	x	x
Trebuchet MS	x	x
Trebuchet MS Bold	x	x

Trebuchet MS Bold Italic	x	x
Trebuchet MS Italic	x	x
Verdana	x	x
Verdana	x	x
Verdana Bold	x	x
Verdana Bold Italic	x	x
Verdana Italic	x	x
Webdings	x	x
Wingding	x	x
<b>INTERNATIONAL</b>		
Input Method Manager (IMM)	x	x
Locale Services (Choose 1)	x	x
National Language Support (NLS)	x	x
English (US) National Language Support only	x	x
Locale Specific Support	x	x
Arabic	x	x
Fonts	x	x
Tahoma (subset 1_08)	x	x
Tahoma Bold (subset 1_08)	x	x
Arial (subset 1_08)	x	x
Arial Bold (subset 1_08)	x	x
Courier New (subset 1_08)	x	x
Keyboard	x	x
Arabic Keyboard (101)	x	x
Chinese (Simplified)	x	x
Agfa AC3 Font Compression	x	x
Fonts	x	x
SimSun & NSimSun (Choose 1)	x	x
SimSun & NSimSun	x	x
SimSun & NSimSun (Subset 2_20)	x	x
SimSun & NSimSun (Subset 2_50)	x	x
SimSun & NSimSun (Subset 2_60)	x	x
SimSun & NSimSun (Subset 2_70)	x	x
SimSun & NSimSun (Subset 2_80)	x	x
SimSun & NSimSun (Subset 2_90)	x	x
SC_Song	x	x
GB18030 Data Converter	x	x
Input Method Editor (Choose 1)	x	x
MSPY 3.0 for Windows CE	x	x
MSPY 3.0 for Windows CE Database (Choose 1)	x	x
1.1 MB - Minimal Database	x	x
1.3 MB - Compact Database	x	x
1.7 MB - Standard Database	x	x
Double Spelling (Shuang Pin) soft keyboard - Large	x	x
Double Spelling (Shuang Pin) soft keyboard - Small	x	x

Catalog	Core	Professional
Pocket IME	x	x
Double Spelling (Shuang Pin) soft keyboard - Small	x	x
Chinese (Traditional)	x	x
Agfa AC3 Font Compression	x	x
Fonts	x	x
MingLiU & PMingLiU (Choose 1)	x	x
MingLiU & PMingLiU	x	x
MingLiU & PMingLiU (Subset 2_70)	x	x
MingLiU & PMingLiU (Subset 2_80)	x	x
MingLiU & PMingLiU (Subset 2_90)	x	x
MS Ming	x	x
Input Method Editor	x	x
Pocket IME	x	x
Input Methods	x	x
Input by Radical (Chang Jei)	x	x
Handwriting Recognizer Engine (HWX)		x
MboxCHT HWX Sample UI		x
Phonetic Input (Bopomofo)	x	x
English (Worldwide)	x	x
Input Methods	x	x
Handwriting Recognizer Engine (HWX)		x
English (U.S.)	x	x
Input Methods	x	x
Transcriber Handwriting Recognition Application		x
French	x	x
Input Methods	x	x
Transcriber Handwriting Recognition Application		x
German	x	x
Input Methods	x	x
Transcriber Handwriting Recognition Application		x
Hebrew	x	x
Fonts	x	x
Tahoma (subset 1_08)	x	x
Arial (subset 1_08)	x	x
Tahoma Bold (subset 1_08)	x	x
Arial Bold (subset 1_08)	x	x
Courier New (subset 1_08)	x	x
Keyboard	x	x
Hebrew Keyboard	x	x
Indic	x	x
Hindi	x	x
Fonts	x	x
Mangal	x	x
Keyboard	x	x
Hindi Traditional Keyboard	x	x

Marathi	x	x
Fonts	x	x
Mangal	x	x
Keyboard	x	x
Marathi Keyboard	x	x
Punjabi	x	x
Fonts	x	x
Raavi	x	x
Keyboard	x	x
Punjabi Keyboard	x	x
Telugu	x	x
Fonts	x	x
Gautami	x	x
Keyboard	x	x
Telugu Keyboard	x	x
Gujarati	x	x
Fonts	x	x
Shruti	x	x
Keyboard	x	x
Gujarati Keyboard	x	x
Kannada	x	x
Fonts	x	x
Tunga	x	x
Keyboard	x	x
Kannada Keyboard	x	x
Tamil	x	x
Fonts	x	x
Latha	x	x
Keyboard	x	x
Tamil Keyboard	x	x
Japanese	x	x
Agfa AC3 Font Compression	x	x
Fonts	x	x
MS Gothic (Choose 1)	x	x
MS Gothic & MS PGothic & MS UI Gothic	x	x
MS Gothic & MS PGothic & MS UI Gothic (Subset 1_50)	x	x
MS Gothic & MS PGothic & MS UI Gothic (Subset 1_60)	x	x
MS Gothic & MS PGothic & MS UI Gothic (Subset 1_80)	x	x
MS Gothic & MS PGothic & MS UI Gothic (Subset 1_90)	x	x
MS Gothic & MS PGothic & MS UI Gothic (Subset 1_70)	x	x
MS Gothic & MS PGothic (Subset 30)	x	x
MS Gothic & MS PGothic (Subset 30_1_19)	x	x
MS Mincho & MS PMincho	x	x
Input Method Editor (Choose 1)	x	x
IME 3.1	x	x

Catalog	Core	Professional
IME 3.1 Database (Choose 1)	x	x
Standard Database	x	x
Compact Database	x	x
Optional UI Components	x	x
Dictionary Tool	x	x
Properties Dialog Box	x	x
Advanced Settings Dialog Box (Landscape mode only)	x	x
System Tray Icon Manager	x	x
Pocket IME (Choose Additional Databases)	x	x
Name/Place Database	x	x
Supplemental Database	x	x
Test IME	x	x
Input Methods	x	x
All Characters List	x	x
Handwriting Recognizer Engine (HWX)		x
Character Auto Complete - HWX Sample UI		x
Multibox HWX Sample UI		x
Kana Soft Keyboard	x	x
Romaji/English Soft Keyboard	x	x
Search by Radical	x	x
Search by Stroke	x	x
Korean	x	x
Agfa AC3 Font Compression	x	x
Fonts	x	x
Gulim (GL_CE)	x	x
Gulim & GulimChe (Choose 1)	x	x
Gulim & GulimChe (Subset 1_30)	x	x
Gulim & GulimChe (Subset 1_40)	x	x
Gulim & GulimChe (Subset 1_50)	x	x
Gulim & GulimChe (Subset 1_60)	x	x
Input Method Editor	x	x
IME 97	x	x
Input Methods	x	x
Handwriting Recognizer Engine (HWX)		x
MboxKOR HWX Sample UI		x
Korean Soft Keyboard Sample	x	x
Thai	x	x
Fonts	x	x
Tahoma (subset 1_08)	x	x
Keyboard	x	x
Thai Kedmanee Keyboard	x	x
Multilingual User Interface (MUI)	x	x
Unicode Script Processor for Complex Scripts	x	x
Internet Client Services	x	x
Browser Application		x

	Core	Professional
Internet Explorer 6.0 for Windows CE - Standard Components		x
Internet Explorer 6.0 Sample Browser		x
TV-Style Navigation Components		x
Pocket Internet Explorer		x
Internet Explorer 6.0 for Windows CE Components		
Internet Explorer Browser Control Host		x
Internet Explorer HTML/DHTML API		x
Internet Explorer HTML Application		x
Filter and Translation		x
Internet Explorer Plug-in Image Decoder API		x
Internet Explorer PNG Image Decoder		x
Internet Explorer Theme Library		x
Internet Explorer Multiple-Language Base API	x	x
Internet Explorer Multiple-Language Full API		x
Optional Charset/Encoding in registry		x
Internet Explorer RPC Support		x
Internet Explorer TV-Style Navigation		x
Fixed-Width Layout		x
Directional Tabbing		x
Disable Vertical Scroll Bar and Events		x
Customizable Font Range		x
URL Moniker Services	x	x
Windows Internet Services	x	x
Passport SSI 1.4 Authentication	x	x
Platform for Privacy Preferences (P3P)	x	x
XML Data Islands	x	x
XML MIME Viewer	x	x
Pocket Internet Explorer HTML View (WEBVIEW)		x
Internet Options Control Panel		x
Scripting	x	x
JScript 5.6	x	x
Script Authoring (Jscript)	x	x
Script Encode (Jscript)	x	x
VBScript 5.6	x	x
Script Authoring (VBScript)	x	x
Script Encode (VBScript)	x	x
MsgBox and InputBox support	x	x
<b>GRAPHICS AND MULTIMEDIA TECHNOLOGIES</b>		
Graphics	x	x
Raster Fonts Support	x	x
V1 Font Compatibility	x	x
AlphaBlend API (GDI version)	x	x
Gradient Fill Support	x	x
Multiple Monitor Support	x	x
Imaging	x	x

	Core	Professional
Still Image Codec Support (Encode and Decode)	x	x
Still Image Decoders	x	x
PNG Decoder	x	x
BMP Decoder	x	x
GIF Decoder	x	x
ICO Decoder	x	x
JPG Decoder	x	x
Still Image Encoders	x	x
GIF Encoder	x	x
BMP Encoder	x	x
JPG Encoder	x	x
PNG Encoder	x	x
Direct3D Mobile	x	x
DirectDraw	x	x
Audio	x	x
Audio Compression Manager	x	x
GSM 6.10 Codec	x	x
MSFilter Codec	x	x
Waveform Audio	x	x
Media	x	x
Streaming Media Playback (requires WMP application)		x
WMA and MP3 Local Playback	x	x
WMA and MP3 Streaming (requires WMP application)		x
Digital Rights Management	x	x
Digital Rights Management (DRM)	x	x
DRM for Portable Devices	x	x
DRM License Acquisition OCX	x	x
DirectShow	x	x
DirectShow Core	x	x
DirectShow Display	x	x
DirectShow Error Messages	x	x
DMO Wrapper Filter	x	x
ACM Wrapper Filter	x	x
Media Formats	x	x
AVI Filter	x	x
MPEG-1 Parser/Splitter	x	x
Audio Codecs and Renderers	x	x
G.711 Audio Codec	x	x
GSM 6.10 Audio Codec	x	x
IMA ADPCM Audio Codec	x	x
MP3 Codec	x	x
MPEG-1 Layer 1 and 2 Audio Codec	x	x
MS ADPCM Audio Codec	x	x
Waveform Audio Renderer	x	x
WMA Codec	x	x

Catalog	Core	Professional
WMA Voice Codec	x	x
Wave/AIFF/au/snd File Parser	x	x
Video Codecs and Renderers	x	x
DirectShow Video Renderer	x	x
MPEG-1 Video Codec	x	x
MS RLE Video Codec	x	x
Overlay Mixer	x	x
Video/Image Compression Manager	x	x
WMV/MPEG-4 Video Codec	x	x
DVD-Video	x	x
DVD-Video	x	x
DVD-Video Samples	x	x
Windows Media Player		x
Windows Media Player		x
Windows Media Player OCX		x
Windows Media Technologies	x	x
ASX v1 and M3U File Support	x	x
ASX v2 File Support	x	x
ASX v3 File Support	x	x
Windows Media Multicast and Multi-Bit Rate	x	x
NSC File Support	x	x
Windows Media Streaming from Local Storage	x	x
Windows Media Streaming over HTTP	x	x
Windows Media Streaming over MMS	x	x
<b>SECURITY</b>		
Authentication Services (SSPI)	x	x
NTLM	x	x
Kerberos	x	x
Schannel (SSL/TLS)	x	x
Cryptography Services (CryptoAPI 1.0) with High Encryption Provider	x	x
Certificates (CryptoAPI 2.0)	x	x
Cryptographic Messaging (PKCS#7)	x	x
Personal Information Exchange Standard (PKCS #12)	x	x
Diffie-Hellman/DSS Provider	x	x
Smart Card Encryption Provider	x	x
Local Authentication Sub-System	x	x
Password Local Authentication Plug-in	x	x
Microsoft Certificate Enrollment Tool Sample	x	x
Credential Manager	x	x
<b>SHELL AND USER INTERFACE</b>		
Graphics, Windowing and Events	x	x
Minimal GWES Configuration	x	x
Minimal GDI Configuration	x	x
Minimal Input Configuration	x	x
Minimal Window Manager Configuration	x	x

	Core	Professional
Shell		x
Graphical Shell (Choose 1)		x
Standard Shell	x	x
Windows Thin Client Shell		x
AYGShell API Set		x
Command Shell	x	x
Console Window	x	x
Command Processor	x	x
User Interface	x	x
Accessibility	x	x
Common Dialog Support	x	x
Controls Option B	x	x
Control Panel Applets	x	x
Customizable UI	x	x
Windows XP-like Sample Skin	x	x
Menu Tool Tip	x	x
Mouse	x	x
Network User Interface	x	x
Overlapping Menus	x	x
Software Input Panel	x	x
Software-based Input Panel Driver	x	x
Software-based Input Panel (SIP) (Choose 1 or more)	x	x
SIP for Small Screens	x	x
SIP for Large Screens	x	x
Touch Screen (Stylus)	x	x
Quarter VGA Resources - Portrait Mode	x	x
Common Controls	x	x
Animation Control	x	x
Common Control	x	x
Windows CE Error Reporting	x	x
Error Report Generator	x	x
Report Upload Client	x	x
Report Upload Client User Interface	x	x
Error Report Transfer Driver	x	x
Error Reporting Control Panel	x	x
<b>VOICE OVER IP PHONE SERVICES</b>		
Phone IME	x	x
PC Authentication	x	x
Telephony User Interface	x	x
VoIP Application Interface Layer (VAIL)	x	x
VAIL Database Store	x	x
Phone Provisioner	x	x
Reference Media Manager	x	x
Real-time Communications (RTC) Client API	x	x
SIREN/G.722.1 Codecs	x	x

Additional information on the below features as indicated in the table with an asterisk (\*).

### **Help**

Help is not included in the Core run-time because it requires a browser. The Windows CE help engine is HTML-based, and our help documentation comes in the form of HTM files. However, this help documentation is available for use, but it does require that customers create their own viewing software.

### **File Viewers**

File Viewers can be purchased as a Professional Plus run-time option and are not included as part of the Core or Professional licenses.

### **Microsoft English (US) Windows CE Speech Recognizer**

The Speech Recognizer only ships in Windows CE .NET 4.2. This component can only be included in a Windows CE .NET 4.2 Professional run-time image.

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