

Creo Elements/Direct Manager Server 18.1 Platform Support

Contents

Creo Elements/Direct Manager Server 18.1 supports:

- Windows 7 Professional
 - Windows 7 Professional (64 bit)
 - Windows 7 Ultimate
 - Windows 7 Ultimate (64 bit)
 - Windows 7 Enterprise
 - Windows 7 Enterprise (64 bit)
 - Windows Vista Business
 - Windows Vista Business (64 bit)
 - Windows Vista Enterprise
 - Windows Vista Enterprise (64 bit)
 - Windows Vista Ultimate
 - Windows Vista Ultimate (64 bit)
- Windows Server 2003
 - Windows Server 2003 R2
 - Windows Server 2003 x64 Edition
 - Windows Server 2003 R2 x64 Edition
 - Windows Server 2008
 - Windows Server 2008 x64 Edition
 - Windows Server 2008 R2 x64 Edition
 - **Windows Server 2012 x64 Edition**
 - **Windows Server 2012 R2 x64 Edition**
- Windows XP Professional
 - Windows XP Professional x64 Edition
 - HP-UX 11i v2 HP 9000 server
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Refer to this document's detailed platform lists for specific combinations of supported components. Combinations which are not listed are **not** supported.

AMD 64 and Intel EM64T processors are supported running Windows XP Professional, Windows XP Professional x64 Edition, all releases of Vista and all releases of Windows 7. All data management components except the 64 bit database server run as 32 bit applications on Windows computers, including 64 bit processors like AMD 64 and Intel EM64T.

This release supports servers on 32 bit Vista and 32 bit Windows 7; however we recommend use of [server operating systems](#) for performance and scalability.

For comparison with CoCreate Manager Server 17.x, those items which are new in Manager Server 18.0 or 18.1 are flagged in **blue bold text** , while those that were in 17.x but will not be included in 18.0 or 18.1 are flagged in ~~red strike-through text~~ . Those items which remain unchanged from 17.x to 18.0 or 18.1 are in black.

None of our components are tested or certified on virtual machines, such as those provided by products like VirtualPC or VMware. For reference, we have included a copy of the [Support Position for Oracle Products Running on VMWare Virtualized Environments](#) .

None of our components are tested or certified on Itanium processors for either HP-UX or Windows.

None of our components support software on an operating system or database that is not supported by the supplier. We recommend that customers review the life cycle of their operating system and database. If the operating system or database is planned for obsolescence, then customers should plan to migrate to a supported operating system and database.

- Refer to the Microsoft consumer operating system life cycle [web site](#) for obsolescence information.
- Refer to the Hewlett-Packard Software Release [document](#) for the planned obsolescence dates of HP-UX releases. Hewlett-Packard also offers obsolescence [information](#) for PA-RISC hardware.
- Refer to the Oracle Lifetime Support Policy for [Technology Products](#) to review the planned obsolescence dates of Oracle releases.

Database Server Sizing

Select platform, enter number of clients, and press **Calculate**

Platform	WIN32	Clients
<hr/>		
Memory (MB):		
Hard Disk (GB):		

Operating System Service Packs, Patches, and Hot Fixes

1. Creo Elements/Direct software is tested on the latest patch level available at time of the release.
2. In general, Creo Elements/Direct system requirement specifications define a minimum service pack or patch level and expect its software products to not be affected by more recent operating system patches issued by Microsoft. Correct functioning on new patches issued by Microsoft cannot be guaranteed though. The response from us to potential incompatibilities of this nature is to attempt the removal of those incompatibilities as timely as possible in one of the next patch, service pack or major releases of our products.

Schema and Release Support

18.1 based clients (Creo Elements/Direct Model Manager, Drawing Manager, and Design Data Management) can connect to a database server and schema from Manager Server 17.0 or later. They are not supported with any earlier schema or database server.

The schema support diagram looks like this:

Current client releases are supported with the current server release and with all server and schema releases as old as the previous major release. Previous client releases are **not** supported with the current server release.

Job Spooler / Job Server Compatibility

Job Spooler Release	Job Server Release
18.0, 18.1	18.1

If the Job Spooler detects older Job Servers, it marks them as "Incompatible" in the Creo Elements/Direct Model Manager (or Creo Elements/Direct Drawing Manager) **Admin** panel. Job Spooler requires Job Server.

The Job Server requires at least Creo Elements/Direct Modeling 18.1 or Creo Elements/Direct Drafting 18.1.

Creo Elements/Direct Design Data Management

This support matrix covers Creo Elements/Direct Design Data Management running as Standalone and integrated with Creo Elements/Direct Drafting 18.1 and Creo Elements/Direct Modeling 18.1.

Creo Elements/Direct Design Data Management 18.1 and beyond supports the same configurations as Creo Elements/Direct Manager Server 18.1 and beyond. Creo Elements/Direct Design Data Management running as Standalone and Integrations to Creo Elements/Direct Modeling and Creo Elements/Direct Drafting are only available for the Windows XP Professional (32 bit) client platforms.

Creo Elements/Direct Modeling / Creo Elements/Direct Design Data Management

Creo Elements/Direct Modeling Release	Creo Elements/Direct Design Data Management
18.1	17.0, 18.0, 18.1 (Windows XP Professional only)

Creo Elements/Direct Drafting / Creo Elements/Direct Design Data Management

Creo Elements/Direct Drafting Release	Creo Elements/Direct Design Data Management
18.1	17.0, 18.0, 18.1 (Windows XP Professional only)

Creo Elements/Direct Design Data Access (Teamwork Web Access)

Creo Elements/Direct Design Data Access release	Browser	Manager Server
18.1	Netscape >= 4.7 Internet Explorer >= 5.5	17.0, 18.0, 18.1

- NOTE :
- Windows XP Professional x64 is **not** supported.
 - Creo Elements/Direct 2D Access is also supported (same platform as Creo Elements/Direct Drafting)

Creo Elements/Direct Model Manager

This support matrix covers Creo Elements/Direct Model Manager with Creo Elements/Direct Modeling 18.1 and Creo Elements/Direct 3D Access 18.1.

Creo Elements/Direct Modeling / Creo Elements/Direct Model Manager

Creo Elements/Direct Modeling	Creo Elements/Direct Model Manager	Operating System	Client Language
18.1	18.0, 18.1	Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Business (64 bit) Windows Vista Enterprise Windows Vista Enterprise (64 bit) Windows Vista Ultimate Windows Vista Ultimate (64 bit) Windows 7 Professional Windows 7 Professional (64 bit) Windows 7 Ultimate Windows 7 Ultimate (64 bit) Windows 7 Enterprise Windows 7 Enterprise (64 bit) Windows 8 Windows 8 (64 bit) Windows 8 Pro Windows 8 Pro (64 bit) Windows 8 Enterprise	EN DE FR IT ES JA zh_CN

		Windows 8 Enterprise (64 bit) Windows 8.1 Windows 8.1 (64 bit) Windows 8.1 Pro Windows 8.1 Pro (64 bit) Windows 8.1 Enterprise Windows 8.1 Enterprise (64 bit)	
Note: Running a single Model Manager integrated with Modeling and a single Drawing Manager instance integrated with Drafting on one machine is possible; running two Model Manager instances integrated with Modeling or two Drawing Manager instances integrated with Drafting on one machine is not possible. However running more than one Model Manager Standalone and / or Drawing Manager Standalone instances on a single machine is possible.			

Creo Elements/Direct Drawing Manager

This support matrix covers Creo Elements/Direct Drawing Manager with Creo Elements/Direct Drafting 18.1.

Creo Elements/Direct Drafting / Creo Elements/Direct Drawing Manager

Creo Elements/Direct Drafting ¹	Creo Elements/Direct Drawing Manager ¹	Operating System	Client Language
18.1	18.0, 18.1	Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Business (64 bit) Windows Vista Enterprise Windows Vista Enterprise (64 bit) Windows Vista Ultimate Windows Vista Ultimate (64 bit) Windows 7 Professional Windows 7 Professional (64 bit) Windows 7 Ultimate Windows 7 Ultimate (64 bit) Windows 7 Enterprise Windows 7 Enterprise (64 bit) Windows 8 Windows 8 (64 bit) Windows 8 Pro Windows 8 Pro (64 bit) Windows 8 Enterprise Windows 8 Enterprise (64 bit) Windows 8.1 Windows 8.1 (64 bit) Windows 8.1 Pro Windows 8.1 Pro (64 bit) Windows 8.1 Enterprise Windows 8.1 Enterprise (64 bit)	EN DE FR IT ES JA zh_CN
Index: ¹ = Tablet input is not supported with Creo Elements/Direct Drawing Manager. Multi-window Creo Elements/Direct Drafting is not supported with Creo Elements/Direct Drawing Manager. Note: Running a single Model Manager integrated with Modeling and a single Drawing Manager instance integrated with Drafting on one machine is possible; running two Model Manager instances integrated with Modeling or two Drawing Manager instances integrated with Drafting on one machine is not possible. However running more than one Model Manager Standalone and / or Drawing Manager Standalone instances on a single machine is possible.			

Locale Independent

Executable	Operating System
MEIs	See Creo Elements/Direct License Server product documentation
me_fserv ¹	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server Windows Server 2003 Windows Server 2003 R2 Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition Windows Server 2008 Windows Server 2008 x64 Edition Windows Server 2008 R2 x64 Edition Windows Server 2012 x64 Edition Windows Server 2012 R2 x64 Edition Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Enterprise Windows Vista Ultimate Windows 7 Professional Windows 7 Ultimate Windows 7 Enterprise
	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server Windows Server 2003 Windows Server 2003 R2

multiplexer	Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition Windows Server 2008 Windows Server 2008 x64 Edition Windows Server 2008 R2 x64 Edition Windows Server 2012 x64 Edition Windows Server 2012 R2 x64 Edition
DMSintf	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server
authserv.exe	Windows Server 2003 Windows Server 2003 R2 Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition Windows Server 2008 Windows Server 2008 x64 Edition Windows Server 2008 R2 x64 Edition
Index: ¹ = The File Server supports File Areas on a remote location. Please use UNC paths to specify File Areas on remote devices, e.g. NAS devices.	

Database Servers

Executable	Operating System	Database	Locale
me_dserv64_ole.exe ¹	Windows Server 2012 R2 x64 Edition Windows Server 2012 x64 Edition	Oracle 11g Release 2 (11.2.0.4) 64 bit Standard Edition⁴ Oracle 11g Release 2 (11.2.0.4) 64 bit Standard Edition One⁴ Oracle 11g Release 2 (11.2.0.4) 64 bit Enterprise Edition⁴	UTF-8 - new install ^{2,5}
me_dserv64_ole.exe ¹	Windows Server 2012 R2 x64 Edition Windows Server 2012 x64 Edition	Oracle 11g Release 2 (11.2.0.4) 64 bit Standard Edition⁴ Oracle 11g Release 2 (11.2.0.4) 64 bit Standard Edition One⁴ Oracle 11g Release 2 (11.2.0.4) 64 bit Enterprise Edition⁴	C - 10g upgrades only French ISO 8859-1 - 10g upgrades only French Roman 8 - 10g upgrades only German ISO 8859-1 - 10g upgrades only German Roman 8 - 10g upgrades only Italian ISO 8859-1 - 10g upgrades only Italian Roman 8 - 10g upgrades only Japanese SJIS - 10g upgrades only UTF-8 - 10g upgrade
me_dserv64_ole.exe ¹	Windows Server 2008 R2 x64 Edition	Oracle 11g Release 2 (11.2.0.3) 64 bit Standard Edition⁴ Oracle 11g Release 2 (11.2.0.3) 64 bit Standard Edition One⁴ Oracle 11g Release 2 (11.2.0.3) 64 bit Enterprise Edition⁴ Oracle 11g Release 2 (11.2.0.2) 64 bit Standard Edition⁴ Oracle 11g Release 2 (11.2.0.2) 64 bit Standard Edition One⁴ Oracle 11g Release 2 (11.2.0.2) 64 bit Enterprise Edition⁴ Oracle 11g Release 2 (11.2.0.1) 64 bit Standard Edition ⁴ Oracle 11g Release 2 (11.2.0.1) 64 bit Standard Edition One ⁴ Oracle 11g Release 2 (11.2.0.1) 64 bit Enterprise Edition ⁴	UTF-8 - new install ^{2,5}
me_dserv64_ole.exe ¹	Windows Server 2008 R2 x64 Edition	Oracle 11g Release 2 (11.2.0.3) 64 bit Standard Edition⁴ Oracle 11g Release 2 (11.2.0.3) 64 bit Standard Edition One⁴ Oracle 11g Release 2 (11.2.0.3) 64 bit Enterprise Edition⁴ Oracle 11g Release 2 (11.2.0.2) 64 bit Standard Edition⁴ Oracle 11g Release 2 (11.2.0.2) 64 bit Standard Edition One⁴ Oracle 11g Release 2 (11.2.0.2) 64 bit Enterprise Edition⁴ Oracle 11g Release 2 (11.2.0.1) 64 bit Standard Edition ⁴ Oracle 11g Release 2 (11.2.0.1) 64 bit Standard Edition One ⁴ Oracle 11g Release 2 (11.2.0.1) 64 bit Enterprise Edition ⁴	C - 10g upgrades only French ISO 8859-1 - 10g upgrades only French Roman 8 - 10g upgrades only German ISO 8859-1 - 10g upgrades only German Roman 8 - 10g upgrades only Italian ISO 8859-1 - 10g upgrades only Italian Roman 8 - 10g upgrades only Japanese SJIS - 10g upgrades only UTF-8 - 10g upgrade
me_dserv64_ole.exe	Windows Server 2008 x64 Edition	Oracle 11g Release 1 (11.1.0.7) 64 bit Standard Edition ⁴ Oracle 11g Release 1 (11.1.0.7) 64 bit Standard Edition One ⁴ Oracle 11g Release 1 (11.1.0.7) 64 bit Enterprise Edition ⁴	UTF-8 - new install ^{2,5}
me_dserv64_ole.exe ¹	Windows Server 2008 x64 Edition	Oracle 11g Release 1 (11.1.0.7) 64 bit Standard Edition ⁴ Oracle 11g Release 1 (11.1.0.7) 64 bit Standard Edition One ⁴ Oracle 11g Release 1 (11.1.0.7) 64 bit Enterprise Edition ⁴	C - 10g upgrades only French ISO 8859-1 - 10g upgrades only French Roman 8 - 10g upgrades only German ISO 8859-1 - 10g upgrades only German Roman 8 - 10g upgrades only Italian ISO 8859-1 - 10g upgrades only Italian Roman 8 - 10g upgrades only Japanese SJIS - 10g upgrades only UTF-8 - 10g upgrade
me_dserv_ole.exe ¹	Windows Server 2008	Oracle 11g Release 1 (11.1.0.7) Standard Edition ⁴ Oracle 11g Release 1 (11.1.0.7) Standard Edition One ⁴ Oracle 11g Release 1 (11.1.0.7) Enterprise Edition ⁴	UTF-8 - new install ^{2,5}
		Oracle 11g Release 1 (11.1.0.7) Standard Edition ⁴	C - 10g upgrades only French ISO 8859-1 - 10g upgrades only French Roman 8 - 10g upgrades only German ISO 8859-1 - 10g upgrades only

me_dserv_ole.exe ¹	Windows Server 2008	Oracle 11g Release 1 (11.1.0.7) Standard Edition One ⁴ Oracle 11g Release 1 (11.1.0.7) Enterprise Edition ⁴	German Roman 8 - 10g upgrades only Italian ISO 8859-1 - 10g upgrades only Italian Roman 8 - 10g upgrades only Japanese SJIS - 10g upgrades only UTF-8 - 10g upgrade
me_dserv_ole.exe ¹	Windows Server 2003 Windows Server 2003 R2	Oracle 10g Release 2 (10.2.0.5) Standard Edition ⁴ Oracle 10g Release 2 (10.2.0.5) Standard Edition One ⁴ Oracle 10g Release 2 (10.2.0.5) Enterprise Edition ⁴	UTF-8 - new install ^{2,5}
me_dserv_ole.exe ¹	Windows Server 2003 Windows Server 2003 R2	Oracle 10g Release 2 (10.2.0.5) Standard Edition ⁴ Oracle 10g Release 2 (10.2.0.5) Standard Edition One ⁴ Oracle 10g Release 2 (10.2.0.5) Enterprise Edition ⁴	C - 10g upgrades only French ISO 8859-1 - 10g upgrades only French Roman 8 - 10g upgrades only German ISO 8859-1 - 10g upgrades only German Roman 8 - 10g upgrades only Italian ISO 8859-1 - 10g upgrades only Italian Roman 8 - 10g upgrades only Japanese SJIS - 10g upgrades only UTF-8 - 10g upgrade
me_dserv64_ole.exe ¹	Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition	Oracle 10g Release 2 (10.2.0.5) 64 bit Standard Edition ³ Oracle 10g Release 2 (10.2.0.5) 64 bit Enterprise Edition ³	UTF-8 ^{2,5}
me_dserv64_ole.exe ¹	Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition	Oracle 10g Release 2 (10.2.0.5) 64 bit Standard Edition ³ Oracle 10g Release 2 (10.2.0.5) 64 bit Enterprise Edition ³	C - 10g upgrades only French ISO 8859-1 - 10g upgrades only French Roman 8 - 10g upgrades only German ISO 8859-1 - 10g upgrades only German Roman 8 - 10g upgrades only Italian ISO 8859-1 - 10g upgrades only Italian Roman 8 - 10g upgrades only Japanese SJIS - 10g upgrades only UTF-8 - 10g upgrade
me_dserv64_ole.exe ¹	Windows Server 2012 R2 x64 Edition Windows Server 2012 x64 Edition Windows Server 2008 R2 x64 Edition Windows Server 2008 x64 Edition	SQL Server 2008 R2 Express Edition (64 bit) ⁶ SQL Server 2008 R2 Workgroup Edition (64 bit) ⁶ SQL Server 2008 R2 Standard Edition (64 bit) ⁶ SQL Server 2008 R2 Enterprise Edition (64 bit) ⁶	UTF-8 ²
me_dserv_ole.exe ¹	Windows Server 2008	SQL Server 2008 R2 Express Edition ⁶ SQL Server 2008 R2 Workgroup Edition ⁶ SQL Server 2008 R2 Standard Edition ⁶ SQL Server 2008 R2 Enterprise Edition ⁶	UTF-8 ²
me_dserv64_ole.exe ¹	Windows Server 2012 R2 x64 Edition Windows Server 2012 x64 Edition Windows Server 2008 R2 x64 Edition Windows Server 2008 x64 Edition	SQL Server 2008 Express Edition (64 bit) ⁶ SQL Server 2008 Workgroup Edition (64 bit) ⁶ SQL Server 2008 Standard Edition (64 bit) ⁶ SQL Server 2008 Enterprise Edition (64 bit) ⁶	UTF-8 ²
me_dserv_ole.exe ¹	Windows Server 2008	SQL Server 2008 Express Edition ⁶ SQL Server 2008 Workgroup Edition ⁶ SQL Server 2008 Standard Edition ⁶ SQL Server 2008 Enterprise Edition ⁶	UTF-8 ²
me_dserv64_ole.exe ¹	Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition Windows Server 2008 x64 Edition	SQL Server 2005 Workgroup Edition (64 bit) ⁶ SQL Server 2005 Standard Edition (64 bit) ⁶ SQL Server 2005 Enterprise Edition (64 bit) ⁶	UTF-8 ²
me_dserv_ole.exe ¹	Windows Server 2003 Windows Server 2003 R2 Windows Server 2008	SQL Server 2005 Express Edition ⁶ SQL Server 2005 Workgroup Edition ⁶ SQL Server 2005 Standard Edition ⁶ SQL Server 2005 Enterprise Edition ⁶	UTF-8 ²
me_dserv_ole.exe ¹	Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Enterprise Windows Vista Ultimate Windows 7 Professional Windows 7 Ultimate Windows 7 Enterprise	SQL Server 2005 Express Edition ⁶	UTF-8 ²
me_dserv.ora	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server	Oracle 11g Release 2 (11.2.0.0) 64 bit	C French ISO 8859-1 French Roman 8 German ISO 8859-1 German Roman 8 Italian ISO 8859-1 Italian Roman 8 Japanese EUC Japanese SJIS
			C French ISO 8859-1 French Roman 8

me_dserv.ora	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server	Oracle 11g Release 1 (11.1.0.6) 64 bit	German ISO 8859-1 German Roman 8 Italian ISO 8859-1 Italian Roman 8 Japanese EUC Japanese SJIS
<p>Index:</p> <p>1 = Clients running in the Roman 8 or EUC locales cannot connect to me_dserv_ole.exe and me_dserv64_ole.exe.</p> <p>2 = Creo Elements/Direct Manager Server Client on UTF-8 databases is only supported for administration and only running on Windows operating system. There is no UTF-8 support for Design Data Management, classification, or workflow.</p> <p>3 = Oracle 10g x64 and 11g x64 on Windows require the latest Oracle Critical Patch Update. The patches contain preapply and postapply instructions which must be followed. Please see Oracle 10g Patch note, Oracle 11g R1 Patch note and Oracle 11g R2 Patch note for more information. HP-UX Oracle 11g does not require the latest Oracle Critical Patch update, but it is recommended.</p> <p>4 = Oracle 10g and 11g 32 bit on Windows require the latest Oracle Critical Patch Update. The patches contain preapply and postapply instructions which must be followed. Please see Oracle 10g Patch note, Oracle 11g R1 Patch note and Oracle 11g R2 Patch note for more information.</p> <p>5 = Manager Server Oracle 10g installations used Oracle character set "UTF8" for UTF-8 installations. Manager Server Oracle 11g installations use Oracle character set "AL32UTF8" for UTF-8 installations.</p> <p>6 = Manager Server SQL Server 2005 and SQL Server 2008 installations do not support the creation of a \$DOC class with 2byte character in its name.</p>			

Microsoft does not recommend that customers deploy business critical servers (like data management) on their desktop operating systems (for example Windows Vista, Windows XP Professional, etc.). Customers should deploy business critical servers on the Microsoft server operating systems (e.g. Windows Server 2003, Windows Server 2003 R2, Windows Server 2003 x64 Edition, Windows Server 2003 R2 x64 Edition, Windows Server 2008, Windows Server 2008 x64 Edition and Windows Server 2008 R2 x64 Edition). We found severe scalability limits when using desktop operating systems for servers.

Microsoft Windows Small Business Server 2003 and Microsoft Windows Small Business Server 2008 are not supported by our software.

A Creo Elements/Direct Web Client which is based on the new Web Client technology option is also supported to run on an Apple iPad 2.

Language and database compatibility

Client Language	Database Language
EN	DE, FR, IT, ES, EN, UTF-8
DE	DE, FR, IT, ES, EN, UTF-8
FR	DE, FR, IT, ES, EN, UTF-8
IT	DE, FR, IT, ES, EN, UTF-8
ES	DE, FR, IT, ES, EN, UTF-8
JA ¹	JA, UTF-8
zh_CN ²	UTF-8

The only client that can connect to a Japanese language database is a Japanese language client. Japanese clients can connect to UTF-8 databases because a UTF-8 database can represent Japanese characters.

Simplified Chinese clients can connect to UTF-8 databases because a UTF-8 database can represent Simplified Chinese characters.

1 = Japanese Creo Elements/Direct Model Manager running on a non-Japanese operating system is not supported with a non-Unicode database.

2 = Simplified Chinese Creo Elements/Direct Model Manager running on a non-Simplified Chinese operating system is not supported with a non-Unicode database.

Other Servers

Executable	Operating System	Operating System Language	Database Locale
wm_replicate ^{1,2} wfserver ^{1,2}	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server	English French German Italian Japanese	C French ISO 8859-1 French Roman 8 German ISO 8859-1 German Roman 8 Italian ISO 8859-1 Italian Roman 8 Japanese EUC Japanese SJIS
webserver ^{1,2}	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server	English French German Italian Japanese	C French ISO 8859-1 German ISO 8859-1 Italian ISO 8859-1 Japanese EUC Japanese SJIS
webserver wfserver	Windows Server 2003 Windows Server 2003 R2 Windows Server 2008	English French German Italian Japanese Spanish	C French ISO 8859-1 German ISO 8859-1 Italian ISO 8859-1 Japanese SJIS Spanish ISO 8859-1
Web services server	Windows Server 2003 Windows Server 2003 R2 Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition Windows Server 2008 Windows Server 2008 x64 Edition Windows Server 2008 R2 x64 Edition Windows Server 2012 x64 Edition Windows Server 2012 R2 x64 Edition	English French German Italian	C French ISO 8859-1 German ISO 8859-1 Italian ISO 8859-1

	Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Enterprise Windows Vista Ultimate Windows 7 Professional Windows 7 Ultimate Windows 7 Enterprise	Japanese Spanish	Japanese SJIS Spanish ISO 8859-1 UTF-8
Software distribution server	Windows Server 2003 Windows Server 2003 R2 Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition Windows Server 2008 Windows Server 2008 x64 Edition Windows Server 2008 R2 x64 Edition Windows Server 2012 x64 Edition Windows Server 2012 R2 x64 Edition Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Enterprise Windows Vista Ultimate Windows 7 Professional Windows 7 Ultimate Windows 7 Enterprise	English French German Italian Japanese Spanish	Not Applicable
Job Server	Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Business (64 bit) Windows Vista Enterprise Windows Vista Enterprise (64 bit) Windows Vista Ultimate Windows Vista Ultimate (64 bit) Windows 7 Professional Windows 7 Professional (64 bit) Windows 7 Ultimate Windows 7 Ultimate (64 bit) Windows 7 Enterprise Windows 7 Enterprise (64 bit) Windows 8 Windows 8 (64 bit) Windows 8 Pro Windows 8 Pro (64 bit) Windows 8 Enterprise Windows 8 Enterprise (64 bit) Windows 8.1 Windows 8.1 (64 bit) Windows 8.1 Pro Windows 8.1 Pro (64 bit) Windows 8.1 Enterprise Windows 8.1 Enterprise (64 bit)	English French German Italian Japanese Spanish	Not Applicable
Index: 1 = wmreplicate, wfserver or webserver running on HP-UX using Roman 8 cannot connect to a Windows database server. Start the server with a setting for LC_ALL or LANG which uses ISO 8859-1 as the character set. 2 = wmreplicate, wfserver or webserver running on HP-UX using EUC cannot connect to a Windows database server. Start the server with a setting for LC_ALL or LANG which uses SJIS as the character set.			

Creo Elements/Direct Manager Server Client

Executable	Operating System	Locale	Display Drivers
workmgr ¹	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server	C	cmdline motif none
workmgr ^{1,2}	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server (with HP Graphics card and HP Xserver)	French ISO 8859-1 ⁴ French Roman 8 ⁴ German ISO 8859-1 ⁴ German Roman 8 ⁴ Italian ISO 8859-1 ⁴ Italian Roman 8 ⁴	cmdline motif none
workmgr ^{1,3}	HP-UX 11i v2 - HP 9000 server HP-UX 11i v3 HP 9000 server	Japanese EUC ⁴ Japanese SJIS ⁴	cmdline motif none
	Windows XP Professional Windows XP Professional x64 Edition Windows Vista Business Windows Vista Enterprise Windows Vista Ultimate Windows 7 Professional Windows 7 Ultimate Windows 7 Enterprise	C French ISO 8859-1 German ISO 8859-1	graphics

workmgr	Windows Server 2003 Windows Server 2003 R2 Windows Server 2003 x64 Edition Windows Server 2003 R2 x64 Edition Windows Server 2008 Windows Server 2008 x64 Edition Windows Server 2008 R2 x64 Edition Windows Server 2012 x64 Edition Windows Server 2012 R2 x64 Edition	Italian ISO 8859-1 Japanese SJIS Spanish ISO 8859-1	none windows
Index: 1 = Creo Elements/Direct Manager Server Client running on HP-UX is only supported for administration 2 = Creo Elements/Direct Manager Server Client running on HP-UX using Roman 8 cannot connect to a Windows database server. 3 = Creo Elements/Direct Manager Server Client running on HP-UX using EUC cannot connect to a Windows database server. 4 = HP-UX is supported in non-ASCII locales only when the hardware includes an HP graphics card and HP Xserver.			

Libraries

API libraries are supported on all client platforms with locale support the same as the client.

SAP Process Adapter, release 18.0

The SAP Process Adapter can only be installed as part of the Windows installation from the media. You must install the Creo Elements/Direct Design Data Management personality to obtain the macros for the SAP Process Adapter.

Operating systems	Windows XP Professional Windows Server 2003
Manager Server	18.0, 18.1
SAP R/3 SAPGUI and libraries	6.20
SAP R/3 server	4.6C 4.7
OS Languages	C German ISO 8859-1 Japanese SJIS

As part of the SAP Software Lifecycle, beginning on 1 January 2004 SAP will only support releases prior to 4.6C with extended maintenance. So we dropped support for all prior releases of SAP. SAPGUI 6.40 and SAP R/3 server 5.0 are not supported with the SAP Process Adapter.

License Requirements

Part Number Prefix ¹	Description	Includes these Licenses	Enables these Applications / Modules
PKG-CC110	Creo Elements/Direct Drawing Manager	<ul style="list-style-type: none">Creo Elements/Direct Drawing Manager	<ul style="list-style-type: none">Creo Elements/Direct Drawing ManagerCreo Elements/Direct Web Services
PKG-CC210	Creo Elements/Direct Model Manager	<ul style="list-style-type: none">Creo Elements/Direct Model Manager (2 ²)Creo Elements/Direct WorkManager DocumentCreo Elements/Direct WorkManager Workflow Client	<ul style="list-style-type: none">Creo Elements/Direct Model ManagerCreo Elements/Direct Drawing ManagerCreo Elements/Direct Design Data ManagementDesktopCreo Elements/Direct Manager Server ClientCreo Elements/Direct Web Services
PKG-CC430	Creo Elements/Direct BOM Editor	<ul style="list-style-type: none">Creo Elements/Direct WorkManager ConfigurationCreo Elements/Direct WorkManager PacketsCreo Elements/Direct WorkManager ClassificationCreo Elements/Direct Bill of Materials Manager	<ul style="list-style-type: none">Creo Elements/Direct BOM EditorCreo Elements/Direct Design Data Management BOMCreo Elements/Direct Desktop BOM
PKG-CC433	Creo Elements/Direct Model Manager Task Agent	<ul style="list-style-type: none">Creo Elements/Direct Model Manager Task Agent (2 ²)	<ul style="list-style-type: none">Creo Elements/Direct Model Manager Task Agent
PKG-CC435	Creo Elements/Direct Web Client	<ul style="list-style-type: none">Creo Elements/Direct WorkManager Web ConsumerCreo Elements/Direct Web ReviewerCreo Elements/Direct Web Services	<ul style="list-style-type: none">Creo Elements/Direct Web AccessCreo Elements/Direct Web Services
PKG-CC510	Creo Elements/Direct Multi-site	<ul style="list-style-type: none">Creo Elements/Direct Distributed Files	<ul style="list-style-type: none">Multiple File Servers
PKG-CC696	Creo Elements/Direct Integration for SAP® ERP	<ul style="list-style-type: none">Creo Elements/Direct MySAP PLM Integration	<ul style="list-style-type: none">Creo Elements/Direct Integration for SAP® ERP

¹ Part number examples include: PKG-CC110-F-, PKG-CC110Y-F- (Full Service Subscription), PKG-CC110G-F- (Global Usage)

² Includes 2 licenses. Both licenses are pulled when you start Creo Elements/Direct Model Manager: One is specifically for Creo Elements/Direct Model Manager, and one is reserved for running Creo Elements/Direct Drawing Manager concurrently on the same computer. When running concurrently, Creo Elements/Direct Drawing Manager will not pull an additional license.

Creo Elements/Direct Model Manager (within Creo Elements/Direct Modeling or 3D Access) and Creo Elements/Direct Model Manager Standalone or two copies of Creo Elements/Direct Model Manager Standalone or Creo Elements/Direct Model Manager (within Creo Elements/Direct Modeling or 3D Access) and Creo Elements/Direct Drawing Manager may run on the same computer at the same time.

The number of Web Services licenses available is derived from the number of Creo Elements/Direct Model Manager, Creo Elements/Direct Drawing Manager, and Project Data Manager licenses configured in the Creo Elements/Direct License Server.

Items that do not need licenses

- Database Server
- File Server
- Software distribution Server
- Web Access Server
- Workflow Designer

License Bundles

Creo Elements/Direct Model Manager licenses also enable Creo Elements/Direct Drawing Manager when Creo Elements/Direct Drawing Manager is run on the same computer as Creo Elements/Direct Model Manager. This license bundle is enabled by setting an environment variable before the user starts Creo Elements/Direct Drafting, or by setting the same variable in the me10.ini file. That variable is:

```
MEBUNDLEKEY=1
```

Creo Elements/Direct Drawing Manager will **not** use a license bundle when Creo Elements/Direct Drafting is started with -bundlekey as a command line argument. It will only use a license bundle if MEBUNDLEKEY=1 is set in the environment or in the me10.ini file.

Creo Elements/Direct License Server Information

Release Requirements:

A release compatibility check is performed between the application and the license server. You will receive an error message if the license server release number is less than the application release number, and the license(s) will not be granted. Therefore the software application cannot be used.

In summary the following condition must be fulfilled for every application:

```
Major Release (License Server) [EQUAL or GREATER] Major Release (Application)
```

When you upgrade Manager Server to 18.1, you must upgrade to the Creo Elements/Direct License Server 18.0 or later.

Blocked Licenses:

The License Server will reject blocked licenses.
Blocked licenses are licenses which are marked as "blocked" in the Creo Elements/Direct license database.
Usually licenses were blocked if they were split or moved to other License Servers during a license exchange process.
No operations can be performed on blocked licenses.
During the license exchange process the customer confirmed to remove them from his license configuration and never use them in the future.
Therefore it is never valid to use any blocked license.

Example:

- Licenses **L**A**x** on host **H**A**** are moved (by the license exchange process) to host **H**B**** and are then called License **L**B**x**.
- Now licenses **L**A**x** are no longer valid licenses.
- The license administrator is responsible to permanently remove all licenses **L**A**x** from the active license configuration and has to make sure that from now on all these licenses can never be used again.
- The licenses **L**A**x** are marked as "blocked" in the Creo Elements/Direct License Database.
- A license exchange request on any set of these licenses **L**A**x** is not permitted.

If such invalid licenses are found in an active license configuration the License Server will select and disable them.
Attention: The license administrator has to remove such licenses from the active license configuration to have a valid license configuration.

All blocked licenses are disabled by the License Server and cannot be used anymore.

Support Position for Oracle Products Running on VMWare Virtualized Environments (copied from Oracle Document ID 249212.1 from 07-JUN-2010)

Purpose

Explain to customers how Oracle supports our products when running on VMware.

Scope & Application

For Customers running Oracle products on VMware virtualized environments. No limitation on use or distribution.

Support Status for VMware Virtualized Environments

Oracle has not certified any of its products on VMware virtualized environments. Oracle Support will assist customers running Oracle products on VMware in the following manner: Oracle will only provide support for issues that either are known to occur on the native OS, or can be demonstrated not to be as a result of running on VMware.

If a problem is a known Oracle issue, Oracle support will recommend the appropriate solution on the native OS. If that solution does not work in the VMware virtualized environment, the customer will be referred to VMware for support. When the customer can demonstrate that the Oracle solution does not work when running on the native OS, Oracle will resume support, including logging a bug with Oracle Development for investigation if required.

If the problem is determined not to be a known Oracle issue, we will refer the customer to VMware for support. When the customer can demonstrate that the issue occurs when running on the native OS, Oracle will resume support, including logging a bug with Oracle Development for investigation if required.

NOTE: Oracle has not certified any of its products on VMWare, and use of Oracle products in the RAC environment is also not supported.
