



Supported Platforms

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Table of Contents

About This Book	1
1 Supported Technologies	3
1.1 Supported Server Platforms	3
1.1.1 Platform Table Notes	5
1.1.2 Supported Development Platforms	5
1.2 CSP Supported Web Servers	6
1.3 CSP Supported Web Browsers	6
1.4 Supported Client Platforms	7
1.5 Platform Endianness	9
1.6 Supported SQL Gateway Databases	10
1.7 Supported Java Technologies	10
1.8 Java Binding Client/Server Compatibility	10
1.9 Other Supported Technologies	11
1.10 Other Supported Features	11
2 Supported Languages	13
3 Discontinued Platforms	15
3.1 Discontinued Server Platforms	15
3.2 Discontinued Web Servers	15
3.3 Discontinued Web Browsers	16
3.4 Discontinued SQL Gateway Databases	16
3.5 Discontinued Java Development Kits	16
4 Supported Version Interoperability	17

About This Book

Caché, Ensemble, and HealthShare run on several operating systems on various platforms. They work with many types of technologies and provide support for several national languages. This document describes the details of what is supported in this version and also indicates which versions of technologies are no longer supported that have been in previous releases. The information is presented in the following chapters:

- “[Supported Technologies](#)” describes which operating systems support which features including server platforms, client platforms, Web servers and browsers, language bindings, SQL and Java interfaces, LDAP, multithreaded callin, T-SQL programming extensions, and the MQ interface.
- “[Supported Languages](#)” provides a list of supported languages and character sets and indicates whether or not InterSystems provides utility translations for each language.
- “[Discontinued Platforms](#)” provides information on which technologies supported in the previous version of the product have been discontinued.
- “[Supported InterSystems Version Interoperability](#)” provides information on the cross-version compatibility of selected components and technologies within the most recent releases of InterSystems products.

There is also a detailed [Table of Contents](#).

1

Supported Technologies

The technologies that InterSystems products support are categorized by the following:

- [Supported Server Platforms](#)
- [CSP Supported Web Servers](#)
- [CSP Supported Web Browsers](#)
- [Supported Client Platforms](#)
- [Platform Endianness](#)
- [Supported SQL Gateway Databases](#)
- [Supported Java Technologies](#)
- [Java Binding Client/Server Compatibility](#)
- [Other Supported Technologies](#)
- [Other Supported Features](#)

1.1 Supported Server Platforms

Important: InterSystems does not certify its products for specific operating system patches or service packs because InterSystems relies on the operating system vendor to ensure compatibility. In the rare event that a specific patch or service pack (SP) is required to run InterSystems products, the Supported Server Platforms table notes contain the explicit requirement.

This release supports the following server platforms and operating system releases on the indicated InterSystems products:

Platform	Caché Ensemble DeepSee	HealthShare	Notes
Apple Mac OS X 10.6 for x86-64	✓	✓	1
HP HP-UX 11i v2 BUNDLE11i, v3 for PA-RISC-64	✓		2, 3

Platform	Caché Ensemble DeepSee	HealthShare	Notes
HP HP-UX 11i v2 BUNDLE11i, v3 for Itanium	✓		2, 3, 15
HP OpenVMS 8.2, 8.3, 8.4* for Alpha	✓		4, 5, 6, 9, 15, 19, 20
HP OpenVMS 8.3, 8.3-1H1, 8.4* for Itanium	✓		5, 6, 7, 8, 9, 15, 19, 20
HP Tru64 UNIX® 5.1B for Alpha	✓		5, 6, 15
IBM AIX® 5L V5.3.9, 6.1 for System p-32	✓		
IBM AIX® 5L V5.3.9, 6.1, 7.1* for System p-64	✓		
Microsoft XP Pro, Server 2003 SP2, Server 2008, Vista, 7 for x86-32	✓	✓	10, 12, 16
Microsoft Windows Server 2003 SP2, Server 2008, Vista, 7 for x86-64	✓	✓	10, 12
Microsoft Windows Server 2003 SP2, Server 2008 for Itanium	✓		10
Microsoft Windows Server 2008 x86-64 for Amazon EC2 Cloud	✓		18
Oracle Enterprise Linux 5 for x86-64*	✓		17
Oracle Solaris 10 for SPARC-64 Update 3	✓		13
Oracle Solaris 10 for x86-64	✓		
Red Hat Enterprise Linux v4 RHSA-2006:0575, 5 Advanced Platform for x86-32	✓	✓	11, 12
Red Hat Enterprise Linux v4 RHSA-2006:0575, 5 Advanced Platform for x86-64	✓	✓	11, 12
Red Hat Enterprise Linux v4 RHSA-2006:0575, 5 Advanced Platform for Itanium	✓		11, 15
Red Hat Enterprise Linux 5 x86-64 for Amazon EC2 Cloud*	✓		11, 15, 18
SUSE Linux Enterprise Server 10, 11 SP1* for x86-32	✓		12
SUSE Linux Enterprise Server 10, 11 SP1* for x86-64	✓		12
SUSE Linux Enterprise Server 10, 11 SP1* for Itanium	✓		14, 15

1.1.1 Platform Table Notes

The following notes correspond to the numbers found in the preceding table:

* New with this release

¹ ECP is the only network protocol supported.

² HP-UX 11i v2 requires Kerberos Client version 1.3.5 to use Kerberos. See the *HP-UX Special Considerations* section of the “Installing Caché on UNIX® and Linux” chapter of the *Caché Installation Guide* for details.

³ Only single-threaded ODBC supported.

⁴ MultiNet and HP TCP/IP Services for OpenVMS both supported; requires MultiNet v5.3 or higher. Mirroring is not supported for HP OpenVMS MultiNet.

⁵ No MultiValue server support

⁶ No SQL Gateway support

⁷ OpenVMS 8.3 requires patch VMS83I_INSTAL-V0100, available from the HP IT Resource Center site: <http://www2.itrc.hp.com/service/patch/mainPage.do>.

⁸ HP TCP/IP Services for OpenVMS supported.

⁹ To use SSL/TLS or to use X.509 credentials for XML security, OpenVMS versions prior to 8.3 require [HP SSL for OpenVMS](#).

¹⁰ InterSystems products support Microsoft terminal server capabilities as well as Citrix MetaFrame XP in the following environments: Windows XP Professional, and Windows Server 2003.

¹¹ To use Kerberos on the Red Hat platform, you must install the `krb5-devel` package in addition to the `krb5-libs` package. See the *Red Hat Linux Special Considerations* section of the “Installing Caché on UNIX® and Linux” chapter of the *Caché Installation Guide* for detailed information on obtaining these components.

¹² This platform supports a high-performance interface for Java programs that provides Multidimensional Storage (MDS) API, Java Dynamic Object API, and In-process JDBC.

¹³ Both 32-bit and 64-bit ODBC drivers provided.

¹⁴ On SUSE Linux 11 for Itanium, to copy large files from DVD, install the <ftp://ftp.novell.com/outgoing/SR10513759531.tar.gz> patch until Novell releases SP1.

¹⁵ DICOM is not supported on this platform.

¹⁶ HealthShare is not supported on Microsoft Vista for x86-32.

¹⁷ Unmodified kernel.

¹⁸ Mirroring is not supported on this platform.

¹⁹ Mirroring is not supported with Caché clusters.

²⁰ HP OpenVMS does not support IPv6 with LDAP.

1.1.2 Supported Development Platforms

This release provides limited support for Ubuntu (version 10.04.x), as follows:

- The platform is to be used for application development only; it is not supported for deployment of applications.
- The results of comparative analysis will not be underwritten by InterSystems. No valid conclusions can be drawn from performance, sizing, or other measurements taken on Ubuntu versus other supported platforms.
- InterSystems will reevaluate its continued support for this platform with each major release of Caché/Ensemble.
- The SuSE kits of this release are the ones that should be used on Ubuntu systems
- The installation procedures for the Ubuntu platform are those of the chosen SuSE kit.

1.2 CSP Supported Web Servers

This release supports the Caché Server Pages (CSP) technology on the following Web servers for the indicated platforms. This does not necessarily mean that all InterSystems products run on these platforms, but rather that the CSP Web server component does.

Web Server	Platform
Apache 2.0, 2.2	Apple Mac OS X
	HP HP-UX †
	HP Tru64 UNIX® for Alpha †
	IBM AIX® for System p
	Microsoft Windows
	Red Hat Enterprise Linux
	Oracle Solaris
	SUSE Linux Enterprise
Microsoft IIS	Microsoft Windows
Secure Web Server 2.1-1*	HP OpenVMS
Sun Java System Web Server 7.0	Oracle Solaris

† Using Kerberos security for the CSP Gateway on 64-bit HP platforms requires 64-bit Apache.

1.3 CSP Supported Web Browsers

Caché supports CSP on the Web browsers identified in the following table.

Web Browsers for Ensemble, DeepSee and HealthShare

Ensemble, DeepSee and HealthShare require additional features in their Web browser; therefore, they support IE 6.0 and 7 only.

Web Browser (Platform)	Versions	Caché	Ensemble DeepSee HealthShare	Zen
Chrome (Windows)	4.0.249.89	✓		✓
Internet Explorer (Windows)	5.0, 5.5, 6.0, 7, 8	✓	✓ ^{1, 5}	✓ ²
Mozilla Firefox (Linux, Mac OS X, Windows)	3.6*	✓	✓ ⁴	✓
Netscape	7.0 ³ , 7.1	✓		
Safari (Mac OS X)	5.0 *	✓	✓ ⁴	✓

* New with this release

¹ Requires IE 6.0, 7, or 8.

² Requires SVG and IE 6.0, 7, or 8

³ Version 7.0 does not support XMLHttpRequest

⁴ HealthShare Viewer and Clinical Message Center only

⁵ IE 8 64-bit is not supported by the Ensemble Management Portal

1.4 Supported Client Platforms

ODBC Support

InterSystems products support both single and multithreaded ODBC on most platforms. The following special conditions apply to ODBC support:

- Only single-threaded ODBC is available on the HP-UX operating system.
- InterSystems provides both 32-bit and 64-bit ODBC drivers for Oracle Solaris for SPARC.
- The InterSystems ODBC driver on systems based on UNIX® requires one of the following driver managers:
 - The iODBC driver manager (see <http://www.iodbc.org>) — for use with the Unicode and 8-bit ODBC APIs.
 - The unixODBC driver manager (see <http://www.unixodbc.org>) — for use only with the 8-bit ODBC API.

Important: Microsoft Windows for x86-64 requires 64-bit ODBC applications; connections to applications (for example, Microsoft Office) with 32-bit ODBC are not supported by Microsoft.

ODBC and JDBC *clients* on this release are compatible with all supported server platforms on product versions beginning with the following releases: Caché 5.0.13, Ensemble 3.1, and all versions of HealthShare.

Servers on this release support ODBC and JDBC clients on versions beginning with the following releases: Caché 5.0.13, Ensemble 3.1, and all versions of HealthShare.

Other Client Support

This release supports C++, Perl, Python, and .NET clients on the platforms indicated in the following table. (Supported operating system versions are those listed in the [Supported Server Platforms](#) table.)

Platform	C++	Light C++	Perl and Python ¹	.NET ²	eXTreme ³
Apple Mac OS X for x86-64	✓		✓		
HP HP-UX for PA-RISC-64					
HP HP-UX for Itanium					
HP OpenVMS for Alpha ⁴					
HP OpenVMS for Itanium ⁵					
HP Tru64 UNIX® for Alpha					
IBM AIX® for System p-32					
IBM AIX® for System p-64					
Microsoft Windows for x86-32	✓	✓	✓	✓	✓
Microsoft Windows for x86-64	✓	✓	✓	✓	✓
Microsoft Windows for Itanium				✓	
Red Hat Enterprise Linux for x86-32	✓	✓	✓		✓
Red Hat Enterprise Linux for x86-64	✓	✓	✓		✓
Red Hat Enterprise Linux for Itanium			✓		
Oracle Solaris for SPARC-64					
Oracle Solaris for x86-64					
SUSE Linux Enterprise for x86-32	✓	✓	✓		✓
SUSE Linux Enterprise for x86-64	✓	✓	✓		✓
SUSE Linux Enterprise for Itanium					

¹ For Perl client requirements see the Installation and Configuration section of *Using Perl with Caché*. For Python client requirements see the Installation and Configuration section of *Using Python with Caché*; this release supports versions prior to Python 3.0.

² Supports the 2.0 .NET framework, including Visual Studio 2005. Caché .NET clients do not support Kerberos because the .NET framework does not include direct Kerberos support.

³ Java/JNI components.

⁴ Supports MultiNet as well as the HP TCP/IP Services for OpenVMS TCP/IP implementation.

⁵ Only supported TCP/IP implementation is HP TCP/IP Services for OpenVMS. Applications attempting to access OpenVMS Itanium servers that use Kerberos authentication must install the ECO patch, HP- I64VMS-TCP/IP-V0505-11ECO1-1.

The ECO is for TCP/IP, not the actual operating system. Without this patch, the server often transmits erroneous response packets back to clients using the C++ binding, ODBC, JDBC, or Studio.

1.5 Platform Endianness

When restoring a backup or transferring a database, the target system must be the same Endianness (Big-endian or Little-endian) as the source system; for example, if a backup was created on a Big-endian system, it cannot be restored to a Little-endian system. For information about converting between Big-endian and Little-endian, see the [Using cvendian to Convert Between Big-endian and Little-endian Systems](#) article.

The following table identifies the Endianness of the supported server platforms for this release:

Platform	Big-endian	Little-endian
Apple Mac OS X 10.6 for x86-64		✓
HP HP-UX 11i v2, v3 for PA-RISC-64	✓	
HP HP-UX 11i v2, v3 for Itanium	✓	
HP OpenVMS 8.2, 8.3 for Alpha		✓
HP OpenVMS 8.3, 8.3-1H1 for Itanium		✓
HP Tru64 UNIX® 5.1B for Alpha		✓
IBM AIX® 5L V5.3, 6.1 for System p-32	✓	
IBM AIX® 5L V5.3, 6.1 for System p-64	✓	
Microsoft XP Pro, Server 2003, Server 2008, 7, Vista for x86-32		✓
Microsoft Windows Server 2003, Server 2008, 7, Vista for x86-64		✓
Microsoft Windows Server 2003, Server 2008 for Itanium		✓
Red Hat Enterprise Linux v4, 5 Advanced Platform for x86-32		✓
Red Hat Enterprise Linux v4, 5 Advanced Platform for x86-64		✓
Red Hat Enterprise Linux v4, 5 Advanced Platform for Itanium		✓
Oracle Solaris 10 for SPARC-64	✓	
Oracle Solaris 10 for x86-64		✓
SUSE Linux Enterprise Server 10, 11 for x86-32		✓
SUSE Linux Enterprise Server 10, 11 for x86-64		✓
SUSE Linux Enterprise Server 10, 11 for Itanium		✓

1.6 Supported SQL Gateway Databases

The Caché SQL Gateway supports the following legacy relational database systems:

Database System	Versions	Notes
IBM DB2	8.1, 9	
Informix OnLine	5.2	
Microsoft SQL Server	2005, 2008	
MySQL	5.0	
Oracle	9i, 10g, 11g	
Sybase Adaptive Server Enterprise	12.5.2	Data expected in UTF-8 format

This release supports both the JDBC-based and ODBC-based gateway on all platforms where the Caché SQL Gateway is available.

Important: The Caché SQL Gateway is *not* available on OpenVMS or Tru64 systems.

1.7 Supported Java Technologies

InterSystems Java products, such as the Apache Formatting Objects Processor (FOP), require a Java Development Kit (JDK) from Oracle (formerly Sun) or a compatible JDK.

This release supports JDBC clients on the following:

- JDK 5.0 (also referred to as JDK 1.5)
- JDK 6.0 (JDK 1.6)

Support for Enterprise JavaBeans (EJB) is available in accordance with the following enterprise specifications:

Enterprise Specifications	Versions
Java Enterprise Edition (JavaEE)	1.5, 1.6

Ensemble also contains the *Java Gateway*, which provides an easy way to interoperate with Java components.

Please contact InterSystems if you would like to take advantage of InterSystems product license sharing when running Java on Windows Terminal Servers.

1.8 Java Binding Client/Server Compatibility

This release provides the following Java binding client/server compatibility:

Server:	2008.2	2009.1	2010.1	2010.2
Client				
2008.2	Full	Full	Unsupported	Unsupported
2009.1	Full	Full	Unsupported	Unsupported
2010.1	Unsupported	Unsupported	Full	Full
2010.2	Unsupported	Unsupported	Full	Full

Note: Versions prior to 2008.2 require the server and client to be of the same version to be supported.

1.9 Other Supported Technologies

This release supports other technologies as specified in the following tables:

Technology	Platform
Adobe® Dreamweaver® CS4 Plugin	Microsoft Windows XP (SP2) Microsoft Windows Vista x86-32 Microsoft Windows 7 x86-32

XML Supported Libraries	Version
ICU	4.0
Xerces	2.8
Xalan	1.10

1.10 Other Supported Features

InterSystems products support the LDAP protocol, multithreaded callin, T-SQL programming extensions, and the MQ Interface as indicated in the following table. (Supported operating system versions are those listed in the [Supported Server Platforms](#) table.)

Platform	LDAP	Multithreaded Callin	T-SQL	MQ Interface
Apple Mac OS X for x86-64	✓		✓	
HP HP-UX for PA-RISC-64	✓ ¹		✓	✓
HP HP-UX for Itanium	✓ ¹		✓	✓
HP OpenVMS for Alpha	✓			

Platform	LDAP	Multithreaded Callin	T-SQL	MQ Interface
HP OpenVMS for Itanium	✓			
HP Tru64 UNIX® for Alpha	✓		✓	
IBM AIX® for System p-32	✓		✓	✓
IBM AIX® for System p-64	✓		✓	✓
Microsoft Windows for x86-32	✓	✓	✓	✓
Microsoft Windows for x86-64	✓	✓	✓	
Microsoft Windows for Itanium	✓		✓	
Red Hat Enterprise Linux for x86-32	✓	✓	✓	✓ ²
Red Hat Enterprise Linux for x86-64	✓	✓	✓	✓ ²
Red Hat Enterprise Linux for Itanium	✓		✓	
Oracle Solaris for SPARC-64	✓		✓	✓
Oracle Solaris for x86-64	✓	✓	✓	✓
SUSE Linux Enterprise for x86-32	✓	✓	✓	✓ ²
SUSE Linux Enterprise for x86-64	✓	✓	✓	✓ ²
SUSE Linux Enterprise for Itanium	✓		✓	

¹ To use LDAP on HP-UX, you must install the HP-UX OpenSSL library. See the *HP-UX* Special Considerations section of the “Installing Caché on UNIX® and Linux” chapter of the *Caché Installation Guide* for details.

² The minimum version supported by Caché is WebSphere MQ V6.0.2.4.

2

Supported Languages

InterSystems provides National Language Support (NLS) in an 8-bit character set for selected regions. Caché also has utility translations for some languages. These localizations exist for the languages as indicated in the following table.

Language	Character Sets	Utility Translation
Arabic	CP1256, ISO8859-6, Unicode	
Chinese (Simplified)	Unicode, GB18030	
Chinese (Traditional)	Unicode	
Czech	Latin 2, Unicode	
Danish	Latin 1, Unicode	
Dutch	Latin 1, Unicode	✓
English	Latin 1, Unicode	✓
Finnish	Latin 1, Unicode	
French	Latin 1, Unicode	✓
German	Latin 1, Unicode	✓
Greek	Latin G, Unicode	
Hebrew	Latin H, Unicode	
Hungarian	Latin 2, Unicode	
Italian	Latin 1, Unicode	✓
Japanese	Unicode	✓
Korean	Unicode	✓
Lithuanian	CP1257, ISO8859-4, ISO8859-10, ISO8859-13, Unicode	
Polish	Latin 2, Unicode	
Portuguese (Brazil)	Latin 1, Unicode	✓

Language	Character Sets	Utility Translation
Russian	CP1251, Latin C, Unicode	✓
Spanish	Latin 1, Unicode	✓
Thai	CP874, Latin T, Unicode	

InterSystems documentation is available in English and Japanese.

3

Discontinued Platforms

The platforms that this release no longer supports are categorized by the following:

- [Discontinued Server Platforms](#)
- [Discontinued Web Servers](#)
- [Discontinued Web Browsers](#)
- [Discontinued SQL Gateway Databases](#)

3.1 Discontinued Server Platforms

This release does *not* support the following versions of previously supported server platforms:

Platform	Operating System Version
Apple Mac OS X	10.5
HP Open VMS for Alpha	7.3-2
HP Open VMS for Itanium	8.2-1
Microsoft Windows for x86-32	2000 SP4

Note: This release does not support operating systems on Intel processors earlier than the Pentium 4 processor family. Starting with this release, new versions of HealthShare are no longer available for Oracle Solaris 10 for SPARC-64.

3.2 Discontinued Web Servers

This release does *not* support CSP on the following versions of previously supported Web servers:

Web Server	Version
Secure Web Server	2.1

3.3 Discontinued Web Browsers

This release does *not* support CSP on the following versions of previously supported Web browsers:

Web Browser	Version
Mozilla Firefox (Linux, Mac OS X, Windows)	2.0, 3.0, 3.5
Safari (Mac OS X)	4.0

3.4 Discontinued SQL Gateway Databases

This release does *not* support the following versions of previously supported legacy relational database systems:

Database System	Version
None	

3.5 Discontinued Java Development Kits

This release does *not* support the following versions of previously supported Java Development Kits (JDKs):

Java Development Kit	Version
Sun Java 2 SDK	1.4

4

Supported Version Interoperability

The following table shows the cross-version compatibility of this release with the most recent releases of InterSystems products.

For example, a Caché 2010.2 system can be the shadow destination of Caché 5.1 (or later) servers; conversely, only Caché 2007.1 (or later) systems can be the shadow destination of journal files created on 2010.2 servers.

Note: Mixed Caché clusters including Caché 5.2 (or earlier) and 2007.1 (or later) servers are not supported, nor are mixed clusters containing OpenVMS and Tru64 UNIX® members.

Component	Client/Destination	Server/Source
CSP Gateway	2010.2	2010.2 or earlier
ECP ¹	5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2	5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2
Journal Restore	2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2	5.0, 5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2
Mirroring	2010.2	2010.2
Shadowing	2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2	5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2
Studio ²	2010.2	5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2
xDBC	2010.2	5.0.13 or later

¹ An ECP application server that is connected to a mirrored data server must be version 2010.2 or later.

² Studio works with any server that has the same or lower version of Caché than Studio itself. InterSystems maintains backward compatibility to all versions listed here, including maintenance releases of lower versions. Studio is not forward compatible; it does not connect to systems with higher version numbers, including higher maintenance releases of the current version.

