Supported Platforms

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InterSystems Corporation 1 Memorial Drive Cambridge MA 02142 www.intersystems.com

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For Support questions about any InterSystems products, contact:

InterSystems Worldwide Customer Support

Tel:	+1 617 621-0700
Fax:	+1 617 374-9391
Email:	support@InterSystems.com

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About This Book

Caché, Ensemble, HealthShare, and HealthShare Foundation 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:

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	HealthShare	HealthShare Foundation	Notes
Apple Mac OS X 10.6, 10.7 for x86-64	✓	✓	✓	11
HP HP-UX 11i v2 BUNDLE11i, v3 for PA-RISC-64	✓		✓	1, 2
HP HP-UX 11i v2 BUNDLE11i, v3 for Itanium	✓		✓	1, 2
HP OpenVMS 8.2, 8.3, 8.4 for Alpha	✓			3, 4, 5, 8, 13, 18, 19, 21
HP OpenVMS 8.3, 8.3-1H1, 8.4 for Itanium	✓			4, 5, 6, 7, 8, 13, 18, 19, 21
IBM AIX® 5L V5.3 TL5300–12, 6.1 for Power System-32	✓		✓	
IBM AIX® 6.1 TL6100–05, 7.1 for Power System-64	✓	✓*	✓	
Microsoft XP Pro, Server 2003 SP2, Server 2008, Vista, 7 for x86-32	✓	✓	✓	9, 11, 14
Microsoft Windows Server 2003 SP2, Server 2008, Vista, 7 for x86-64	✓	✓	✓	9, 11
Microsoft Windows Server 2008 Amazon EC2 for x86-64	✓		✓	17
Oracle Enterprise Linux 5 for x86–64	✓		✓	11, 15, 16
Oracle Solaris 10 Express for SPARC-64 Update 3	✓		✓	12
Oracle Solaris 10, 11 Express for x86-64	✓		✓	20
Red Hat Enterprise Linux Advanced Platform 5, 6 for x86-32	✓	✓	✓	10, 11
Red Hat Enterprise Linux Advanced Platform 5, 6 for x86-64	✓	✓	✓	10, 11
Red Hat Enterprise Linux 5 Amazon EC2 for x86–64	✓		✓	10, 17
SUSE Linux Enterprise Server 11 SP1 for x86-32	✓		✓	11
SUSE Linux Enterprise Server 10*, 11 SP1 for x86-64	✓		✓	11
SUSE Linux Enterprise Server 11 SP1 Amazon EC2 for x86–64	✓		✓	11

1.1.1 Platform Table Notes

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

* New with this release.

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

[2] Only single-threaded ODBC supported.

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

[4] No MultiValue server support.

[5] No SQL Gateway support.

[6] 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.

[7] HP TCP/IP Services for OpenVMS supported.

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

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

[10] 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.

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

[12] Both 32-bit and 64-bit ODBC drivers provided.

[13] DICOM is not supported on this platform.

[14] HealthShare is not supported on Microsoft Vista for x86–32.

[15] Unmodified kernel.

[16] Requires Red Hat Advanced Server 5 kit.

[17] Mirroring is not supported on this platform.

[18] Mirroring is not supported with Caché clusters.

[19] Some features are not supported on HP OpenVMS.

[20] On Oracle Solaris networks, mirroring requires the network/physical:default service.

[21] Parallel installation on OpenVMS is not supported.

1.1.2 Supported Development Platforms

This release provides limited support for Ubuntu (version 11.04.x), as follows:

- Requires SuSE Linux Enterprise Server for x86-32 or SuSE Linux Enterprise Server for x86-64.
- 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.

1.2 Supported File Systems

This release supports the following file systems on the specified UNIX®/Linux platforms

Platform	ext3 [3]	ext4 [1,3]	HFS	HP OnlineJFS	JFS2	NFS [2]	UFS	VxFS	ZFS
Apple Mac OS X for x86-64			✓						
HP HP-UX for PA-RISC-64				✓			✓	✓	
HP HP-UX for Itanium				✓			✓	✓	
IBM AIX® for Power System-32					✓			✓	
IBM AIX® for Power System-64					✓			✓	
Oracle Enterprise Linux for x86-64	✓								
Oracle Solaris for SPARC-64							✓	✓	✓
Oracle Solaris for x86-64							✓	✓	✓
Red Hat Enterprise Linux Advance Platform for x86-32	✓	✓				✓		✓	
Red Hat Enterprise Linux Advance Platform for x86-64	✓	✓				✓		✓	
Red Hat Enterprise Linux Amazon EC2 for x86–64	✓								
SUSE Linux Enterprise for x86-32	✓					✓		✓	
SUSE Linux Enterprise for x86-64	✓					✓		✓	

[1] InterSystems recommends using the ext4 file system with Red Hat Clusters.

[2] Due to data corruption issues with NFS-mounted file systems on IBM AIX® platforms, InterSystems recommends that you do not host the NFS server on those platforms; for more information see "September 30, 2010 – Advisory: Data Corruption with NFS mounted file systems"

[3] The `data=journal` mount option is not supported on ext3/ext4 file systems.

1.3 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 †
	IBM AIX® for Power System †
	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 and/or SSL for the CSP Gateway on 64-bit UNIX® platforms requires 64-bit Apache.

1.4 Supported Web Browsers

Caché supports CSP on the web browsers as listed in the following tables.

Browser Platforms

Newer versions of the browsers listed in the following table will be supported with the understanding that critical issues may be found that will have to be corrected in the major release of Caché. Those fixes will not be backported to earlier releases of Caché.

InterSystems also requires that browsers support the XML HTTP interface which limits support for some older browser versions.

Web Browser	Windows	Mac OS X	Linux	Android	iOS
Chrome	✓	✓		✓	
Internet Explorer	✓				
Mozilla Firefox	✓	✓	✓		
Opera	✓	✓			
Safari	✓	✓			✓

Portals

Support for System Management and Ensemble Portals is limited to the browsers listed in the following table. The specified version is the current version being verified by InterSystems. Newer versions released by vendors are assumed to provide backward compatibility; they are supported as described in the "Browser Platform" section, above. New versions are tested as they become available; issues will be addressed in the next major release.

Web Browser (Platform)	Versions	System Management	Ensemble	HealthShare
			HealthShare Foundation	
Chrome (Windows, Mac OS X)	14*	✓	✓	✓[2]
Internet Explorer (Windows)	7, 8 [1]	✓ [4]	✓	✓[2]
Internet Explorer (Windows)	9	✓	✓	
Mozilla Firefox (Windows, Mac OS X, Linux)	3.6, 7.0*	✓	✓	✓[3]
Safari (Windows, Mac OS X)	5.0	✓	✓	✓[3]

* New with this release.

[1] Internet Explorer 7 and 8 require the Adobe Plugin; they run only in 32-bit Internet Explorer.

[2] HealthShare Portal and Clinician Portal.

[3] Clinician Portal only.

[4] The System Management Portal is not supported with Internet Explorer 7.

1.5 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.

Caché eXTreme Support

This release supports Caché eXTreme for Java and C++ on the platforms specified in the following table:

Platform	eXTreme for Java [1]	eXTreme for C++
Apple Mac OS X for x86-64	✓	
Microsoft Windows for x86-32 [2]	✓	✓
Microsoft Windows for x86-64 [2]	✓	✓
Oracle Enterprise Linux for x86-64	✓	✓
Red Hat Enterprise Linux for x86-32	✓	✓
Red Hat Enterprise Linux for x86-64	✓	✓
SUSE Linux Enterprise for x86-32	✓	✓
SUSE Linux Enterprise for x86-64	✓	✓

[1] Includes Java Native Interface (JNI) components. Only Java SE 6 and above is supported on all platforms.

[2] Due to default Java stack size limitations on Windows, each Java virtual machine invocation must pass in the argument *-Xss1024k* for Caché eXTreme for Java to work correctly.

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++	Perl and Python [1]	.NET [2]
Apple Mac OS X for x86-64	✓	✓	
HP HP-UX for PA-RISC-64			
HP HP-UX for Itanium			
HP OpenVMS for Alpha [3]			
HP OpenVMS for Itanium [4]			
IBM AIX® for Power System-32			
IBM AIX® for Power System-64			
Microsoft Windows for x86-32	✓	✓	✓
Microsoft Windows for x86-64	✓	✓	✓
Oracle Enterprise Linux for x86-64	✓	✓	
Oracle Solaris for SPARC-64	✓		

Platform	C++	Perl and Python [1]	.NET [2]
Oracle Solaris for x86-64	✓		
Red Hat Enterprise Linux for x86-32	✓	✓	
Red Hat Enterprise Linux for x86-64	✓	✓	
SUSE Linux Enterprise for x86-32	✓	✓	
SUSE Linux Enterprise for x86-64	✓	✓	

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

[4] 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-TCPIP-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.

1.6 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, see the section on "Using cvendian to Convert Between Big-endian and Little-endian Systems" in *Caché Specialized System Tools and Utilities*.

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

Platform	Big-endian	Little-endian
Apple Mac OS X for x86-64		✓
HP HP-UX for PA-RISC-64	✓	
HP HP-UX for Itanium	✓	
HP OpenVMS for Alpha		✓
HP OpenVMS for Itanium		✓
IBM AIX® for Power System-32	✓	
IBM AIX® for Power System-64	✓	

Platform	Big-endian	Little-endian
Microsoft Windows for x86-32		✓
Microsoft Windows for x86-64		✓
Oracle Enterprise Linux for x86-64		✓
Oracle Solaris for SPARC-64	✓	
Oracle Solaris for x86-64		✓
Red Hat Enterprise Linux Advanced Platform for x86-32		✓
Red Hat Enterprise Linux Advanced Platform for x86-64		✓
Red Hat Enterprise Linux Amazon EC2 for x86–64		✓
SUSE Linux Enterprise Server for x86-32		✓
SUSE Linux Enterprise Server for x86-64		✓

1.7 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	5.1, 5.5	
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 systems.

1.8 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 JDK 6.

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

Enterprise Specifications	Versions
Java Enterprise Edition (JavaEE)	5, 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.

1.9 Java Binding Client/Server Compatibility

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

Server:	2010.1	2010.2	2011.1	2012.1
Client				
2010.1	Full	Full	Full	Full
2010.2	Full	Full	Full	Full
2011.1	Full	Full	Full	Full
2012.1	Full	Full	Full	Full

1.10 Other Supported Technologies

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

Technology	Platform
Adobe® Dreamweaver® CS5 Plugin*	Microsoft Windows XP (SP2) Microsoft Windows Vista x86-32 Microsoft Windows 7 x86-32

* New with this release.

XML Supported Libraries	Version
ICU	4.0
Xerces	3.1.1 *
Xalan	1.10

* New with this release.

1.11 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	✓			
HP OpenVMS for Itanium	✓			
IBM AIX® for Power System-32	✓		✓	✓
IBM AIX® for Power System-64	✓		✓	✓
Microsoft Windows for x86-32	✓	✓	✓	✓
Microsoft Windows for x86-64	✓	✓	✓	✓
Oracle Enterprise Linux for x86-64	✓	✓	✓	✓[2]
Oracle Solaris for SPARC-64	✓		✓	✓
Oracle Solaris for x86-64	✓	✓	✓	✓
Red Hat Enterprise Linux for x86-32	✓	✓	✓	✓[2]
Red Hat Enterprise Linux for x86-64	✓	✓	✓	✓[2]
SUSE Linux Enterprise for x86-32	✓	✓	✓	✓[2]
SUSE Linux Enterprise for x86-64	✓	✓	✓	✓[2]

[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 V7.0.

2

Supported Languages

InterSystems provides National Language Support (NLS) in an 8-bit character set for selected regions. Caché and Ensemble also have utility translations for some languages. These localizations exist for the languages as indicated in the following table. HealthShare Foundation-specific utilities are not currently translated.

Language	Character Sets	Utility Translation
Arabic	CP1256 (Arabic), Latin/Arabic, Unicode	
Chinese (Simplified)	GB18030 (Chinese National Standard), Unicode	
Chinese (Traditional)	Unicode	
Czech	CP1250 (Central Europe), Latin-2, Unicode	
Danish	Latin-1, Latin-9, Latin-I, Unicode	
Dutch	Latin-1, Latin-9, Latin-I, Unicode	✓
English	ASCII †, Latin-1, Latin-9, Latin-I, Unicode	✓
Finnish	Latin-1, Latin-9, Latin-I, Unicode	
French	Latin-1, Latin-9, Latin-I, Unicode	✓
German	Latin-1, Latin-9, Latin-I, Unicode	✓
Greek	CP1253 (Greek), Latin-G, Unicode	
Hebrew	CP1257 (Hebrew), Latin-H, Unicode	
Hungarian	CP1250 (Central Europe), Latin-2, Unicode	
Italian	Latin-1, Latin-9, Latin-I, Unicode	✓
Japanese	Unicode	✓
Korean	Unicode	✓
Lithuanian	CP1257 (Baltic), Latin-4, Latin-6, Latin-7, Unicode	

Language	Character Sets	Utility Translation
Polish	CP1250 (Central Europe), Latin-2, Unicode	
Portuguese (Brazil)	Latin-1, Latin-9, Latin-I, Unicode	✓
Russian	CP1251 (Cyrillic), Latin-C, Unicode	✓
Slovenian	Unicode	
Spanish	Latin-1, Latin-9, Latin-I, Unicode	✓
Thai	CP874 (Thai), Latin-T, Unicode	
Turkish	Unicode	

† US English only.

InterSystems documentation is available in English and Japanese.

2.1 iKnow

The following languages are supported by iKnow in this release:

- Dutch
- English
- French
- German
- Portuguese
- Spanish

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
- Discontinued Java Development Kits
- Other Discontinued Technologies

3.1 Discontinued Server Platforms

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

Platform	Operating System Version
HP Tru64 UNIX® for Alpha	5.1B
Oracle Solaris Express for SPARC-64 Update 3	11†

† Tentative with this release.

3.2 Discontinued Web Servers

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

Web Server	Version
None	

3.3 Discontinued Web Browsers

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

Web Browser	Version
Chrome	10
Mozilla Firefox	4

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
Java Standard Edition (Java SE)	5

3.6 Other Discontinued Technologies

This release does *not* support versions of other previously supported technologies:

Technology	Version
Adobe® Dreamweaver® Plugin	CS4

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 2012.1 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 2012.1 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 members.

Component	Client/Destination	Server/Source
CSP Gateway	2012.1	2012.1 or earlier
ECP [1]	5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2, 2011.1, 2012.1	5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2, 2011.1, 2012.1
Journal Restore	2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2, 2011.1, 2012.1	5.0, 5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2, 2011.1, 2012.1
Mirroring	2010.2, 2011.1, 2012.1	2010.2, 2011.1, 2012.1
Shadowing	2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2, 2011.1, 2012.1	5.1, 5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2, 2011.1, 2012.1
Studio [2]	2012.1	5.2, 2007.1, 2008.1, 2008.2, 2009.1, 2010.1, 2010.2, 2011.1, 2012.1
xDBC	5.0.13 or later	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] Caché Studio is not forward compatible; it does not connect to systems with higher version numbers, including higher maintenance releases of the current version. The Caché Studio version on a client must be the same or later than the Caché server version to which it connects; this also applies to maintenance releases.