



# Supported Platforms

Version 2009.1

30 June 2009

### *Supported Platforms*

InterSystems Version 2009.1 30 June 2009

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# 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](#)
- [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	HealthShare	Notes
	DeepSee		
Apple Mac OS X 10.4, 10.5 for x86-32	✓	✓	1
Apple Mac OS X 10.5 for x86-64	✓	✓	1
HP HP-UX 11i v2, v3 for PA-RISC-64	✓		2,3,4
HP HP-UX 11i v2, v3 for Itanium	✓		2,3,4
HP OpenVMS 7.3-2, 8.2, 8.3 for Alpha	✓		5,6,7
HP OpenVMS 8.2-1, 8.3, 8.3-1H1 for Itanium	✓		6,7,8,9
HP Tru64 UNIX 5.1B for Alpha	✓		7
IBM AIX 5L V5.2 <sup>17</sup> , V5.3, 6.1 for System p-32	✓		10
IBM AIX 5L V5.2, V5.3, 6.1 for System p-64	✓		10
Microsoft Windows 2000, XP Pro, Server 2003, Server 2008, Vista for x86-32	✓	✓	11,12
Microsoft Server 2003, Server 2008, Vista for x86-64	✓	✓	12,13
Microsoft Windows Server 2003, Windows Server 2008 for Itanium	✓		12
Red Hat Enterprise Linux v4, 5 Advanced Platform for x86-32	✓	✓	14,15
Red Hat Enterprise Linux v4, 5 Advanced Platform for x86-64	✓	✓	13,14,15
Red Hat Enterprise Linux v4, 5 Advanced Platform for Itanium	✓		14,15
Sun Solaris 10 for SPARC-64	✓	✓	16
Sun Solaris 10 for x86-64	✓	✓	13
SUSE Linux Enterprise Server 9, 10, 11 for x86-32	✓		



Platform	Caché Ensemble		Notes
	DeepSee	HealthShare	
SUSE Linux Enterprise Server 9, 10, 11 for x86-64	✓		13
SUSE Linux Enterprise Server 10, 11 for Itanium	✓		

### 1.1.1 Platform Table Notes

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

<sup>1</sup> Only ECP network protocol supported

<sup>2</sup> 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.

<sup>3</sup> Only single-threaded ODBC supported

<sup>4</sup> v2 requires patch bundle BUNDLE11i (Sept. 04) or later

<sup>5</sup> MultiNet and HP TCP/IP Services for OpenVMS both supported

<sup>6</sup> No MultiValue server support

<sup>7</sup> No SQL Gateway support

<sup>8</sup> OpenVMS 8.3 requires patch VMS83I\_INSTALL-V0100, available from the HP IT Resource Center site: <http://www2.itrc.hp.com/service/patch/mainPage.do>.

<sup>9</sup> HP TCP/IP Services for OpenVMS supported

<sup>10</sup> Certified with Simultaneous Multithreading (SMT) enabled

<sup>11</sup> Caché does not support DDP, LAT, or DCP over Raw Ethernet on Windows Vista; on other supported Windows versions these protocols are only supported on the x86-32 bit platform.

<sup>12</sup> InterSystems products support Microsoft terminal server capabilities as well as Citrix MetaFrame XP in the following environments: Windows 2000, Windows XP Professional, and Windows Server 2003.

<sup>13</sup> Supports Intel Extended Memory (EM64T), and AMD Opteron processors

<sup>14</sup> 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.

<sup>15</sup> V.4 requires update `RHSA-2006:0575` or later.

<sup>16</sup> Both 32-bit and 64-bit ODBC drivers provided.

<sup>17</sup> Requires AIX 5.2 Technology Level 10 (5200-10).

## 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
	Sun Solaris
	SUSE Linux Enterprise
Microsoft IIS	Microsoft Windows
Secure Web Server 2.1	HP OpenVMS
Sun Java System Web Server 7.0	Sun Solaris

## 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 Browsers for Zen

The InterSystems Zen feature requires SVG and is available for development on IE 6.0, 7, and Mozilla Firefox 2.0, 3.0 Web browsers.

Web Browser (Platform)	Versions	Caché	Ensemble DeepSee HealthShare	Zen
Internet Explorer (Windows)	5.0, 5.5, 6.0, 7	✓	✓ <sup>1</sup>	✓ <sup>1</sup>
Mozilla Firefox (Linux, Mac OS X, Windows)	2.0, 3.0*	✓		✓ <sup>2</sup>
Netscape	7.0 <sup>3</sup> , 7.1	✓		
Safari (Mac OS X)	3.1*, 3.2*	✓		

\* New with this release

<sup>1</sup> Requires IE 6.0 or 7

<sup>2</sup> Requires Mozilla Firefox 2.0 or 3.0

<sup>3</sup> Version 7.0 does not support XMLHttpRequest

# 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 Sun Solaris for SPARC.
- The InterSystems ODBC driver on UNIX-based platforms 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:** 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 <sup>1</sup>	.NET <sup>2</sup>
Apple Mac OS X for x86-32	✓		✓*	
Apple Mac OS X for x86-64	✓		✓	
HP HP-UX for PA-RISC-64				
HP HP-UX for Itanium				
HP OpenVMS for Alpha <sup>3</sup>				
HP OpenVMS for Itanium <sup>4</sup>				
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	✓	✓	✓	

Platform	C++	Light C++	Perl and Python <sup>1</sup>	.NET <sup>2</sup>
Red Hat Enterprise Linux for x86-64	✓	✓		
Red Hat Enterprise Linux for Itanium				
Sun Solaris for SPARC-64				
Sun Solaris for x86-64	✓	✓		
SUSE Linux Enterprise for x86-32	✓	✓	✓	
SUSE Linux Enterprise for x86-64	✓	✓	✓*	
SUSE Linux Enterprise for Itanium				

\* New with this release

<sup>1</sup> 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.

<sup>2</sup> Supports the 2.0 .NET framework, including Visual Studio 2005.

<sup>3</sup> Supports MultiNet as well as the HP TCP/IP Services for OpenVMS TCP/IP implementation.

<sup>4</sup> 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 10.4, 10.5 for x86-32		✓
Apple Mac OS X 10.5 for x86-64		✓
HP HP-UX 11i v2, v3 for PA-RISC-64	✓	
HP HP-UX 11i v2, v3 for Itanium	✓	
HP OpenVMS 7.3-2, 8.2, 8.3 for Alpha		✓
HP OpenVMS 8.2-1, 8.3, 8.3-1H1 for Itanium		✓
HP Tru64 UNIX 5.1B for Alpha		✓
IBM AIX 5L V5.2, V5.3, 6.1 for System p-32	✓	
IBM AIX 5L V5.2, V5.3, 6.1 for System p-64	✓	
Microsoft Windows 2000, XP Pro, Server 2003, Server 2008, Vista, 7 for x86-32		✓
Microsoft Server 2003, Server 2008, Vista, 7 for x86-64		✓
Microsoft Windows Server 2003, Windows 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		✓
Sun Solaris 10 for SPARC-64	✓	
Sun Solaris 10 for x86-64		✓
SUSE Linux Enterprise Server 9, 10 for x86-32		✓
SUSE Linux Enterprise Server 9, 10 for x86-64		✓
SUSE Linux Enterprise Server 10 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

This release supports JDBC clients on the following:

- Sun Java 2 SDK 1.4 (JDK)

**Note:** In accordance with the JDK compatibility statement, InterSystems will drop support for JDK 1.4 starting with product version 2010.x. There will also be no new features for this platform. Due to the nature of Java compatibility, customers can run JDK 1.4-based software on a later version of JDK without issue if care is taken not to tie software to a specific version of the JDK.

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

Support for Enterprise JavaBeans (EJB) is available for the following EJB servers:

EJB Server	Versions (Tested service packs)
BEA WebLogic	9.1
JBoss	4.0.3 (SP1)

**Important:** This release requires Sun JDK 5.0 on the supported EJB servers

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 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

\* New with this release

XML Supported Libraries	Version
ICU	4.0
Xerces	2.8
Xalan	1.10

## 1.9 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 x86-32	✓		✓	
Apple Mac OS X for x86-64	✓		✓	
HP HP-UX for PA-RISC-64	✓ <sup>1</sup>		✓	✓
HP HP-UX for Itanium	✓ <sup>1</sup>		✓	✓
HP OpenVMS for Alpha	✓			
HP OpenVMS for Itanium	✓			
HP Tru64 UNIX for Alpha	✓		✓	
IBM AIX for System p-32	✓ <sup>2</sup>		✓	✓
IBM AIX for System p-64	✓ <sup>2</sup>		✓	✓
Microsoft Windows for x86-32	✓ <sup>3</sup>	✓	✓	✓
Microsoft Windows for x86-64	✓	✓	✓	
Microsoft Windows for Itanium	✓		✓	
Red Hat Enterprise Linux for x86-32	✓	✓	✓	✓ <sup>4</sup>
Red Hat Enterprise Linux for x86-64	✓	✓	✓	✓ <sup>4</sup>
Red Hat Enterprise Linux for Itanium	✓		✓	
Sun Solaris for SPARC-64	✓		✓	✓
Sun Solaris for x86-64	✓	✓	✓	✓
SUSE Linux Enterprise for x86-32	✓	✓	✓	✓ <sup>4</sup>
SUSE Linux Enterprise for x86-64	✓	✓	✓	✓ <sup>4</sup>
SUSE Linux Enterprise for Itanium	✓		✓	

<sup>1</sup> 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.

<sup>2</sup> LDAP on AIX version 5L V5.2 requires Directory Server version 5.1 or later which is available in the [AIX 5L Expansion Pack](#).

<sup>3</sup> LDAP not supported on Windows 2000.

<sup>4</sup> 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	✓

Language	Character Sets	Utility Translation
Japanese	Unicode	✓
Korean	Unicode	✓
Lithuanian *	CP1257, ISO8859–4, ISO8859–10, ISO8859–13, Unicode	
Polish	Latin 2, Unicode	
Portuguese (Brazil)	Latin 1, Unicode	✓
Russian	CP1251, Latin C, Unicode	✓
Spanish	Latin 1, Unicode	✓
Thai	CP874, Latin T, Unicode	

\* New with this release

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
None	

**Important:** This release does not support operating systems on Intel processors earlier than the Pentium 4 processor family.

### 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
Mozilla Firefox (Linux, Mac OS X, Windows)	1.5
Mozilla (Linux, Mac OS X, Windows)	1.7, 1.8
Mozilla (Linux, Mac OS X, Windows)	2.0, 3.0
Safari (Mac OS X)	2.0, 3.0

## 3.4 Discontinued SQL Gateway Databases

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

Database System	Versions
Oracle	8i

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## Supported Version Interoperability

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

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

For example, a Caché 2009.1 system can be the shadow destination of Caché 5.1, 5.2, 2007.1, 2008.1, 2008.2, or 2009.1 servers. However, only Caché 2007.1, 2008.1, 2008.2, or 2009.1 can be the shadow destination of journal files created on 2009.1 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 and Tru64 UNIX members.

