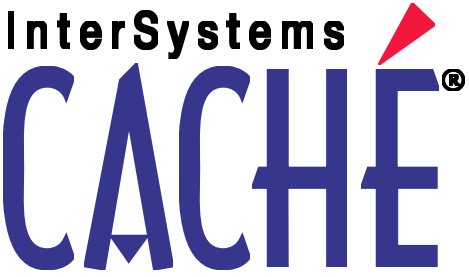

Caché Windows Silent Installation

Version 2009.1
30 June 2009

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Caché Windows Silent Installation
Caché Version 2009.1 30 June 2009
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Caché Windows Silent Installation

The Caché for Windows silent installation utility lets you perform *silent* installation, upgrade, reinstallation (repair), and removal (uninstall) of instances of Caché on your computer. A typical (non-silent) operation obtains necessary input from the user in the form of responses to dialog boxes. A silent operation, however, does not prompt the user for input; instead, it gets input from properties (see Command-Line Properties passed to the Windows® Installer command-line application (**msiexec**).

Important: A prerequisite for using the Caché silent installation utility is the Microsoft Visual C++ 2008 SP1 redistributable package. Depending on the platform on which you are silently installing Caché, use the following links to download and install the required package:

- x86 32–bit (http://www.microsoft.com/downloads/details.aspx?familyid=A5C84275-3B97-4AB7-A40D-3802B2AF5FC2)
- x86 64–bit (http://www.microsoft.com/downloads/details.aspx?familyid=BD2A6171-E2D6-4230-B809-9A8D7548C1B6)
- ia 64–bit (http://www.microsoft.com/downloads/details.aspx?FamilyID=dcc211e6-ab82-41d6-8dec-c79937393fe8)

The Microsoft Installer command-line options that are most commonly used with Caché silent installations are **/i**, **/qn**, and **/l**. For information about **msiexec**, see the Microsoft msiexec (command-line options) TechNet article (http://technet.microsoft.com/en-us/library/cc759262.aspx).

Note: Logging is disabled by default; the **/l** option writes logging information into a file in an existing directory.

This article describes:

- Command-Line Reference that describes the **msiexec** command as it is used by the Caché installation utility.
- Using the Installation Utility that describes how you can use **msiexec** command to perform a installation-related tasks silently.

1 Command-Line Reference

The Command-Line Properties table describes the Caché-specific silent install properties that you can modify via the command-line interface. The property name must be uppercase, but the arguments are not case sensitive; each property must be separated by one or more spaces, and can be specified in any order as *PROPERTYNAME=argument*. For example:

```
... CACHEUSERPASSWORD=f00bar   INSTANCENAME=Cache2009 INITIALSECURITY=Normal
```

In addition, when you install multiple instances of Caché, you must distinguish among the instances. The Windows Installer provides the ability to install multiple instances using **instance transforms**. There are 127 instance transforms — `:instanceid1.mst` through `:instanceid127.mst` — embedded in the Caché kit.

For Caché silent installs, the **TRANSFORMS** argument takes the form `:instanceid`<*N*>`.mst`, where the colon (`:`) specifies that the transform is embedded in the package, and *N* is a number in the range 1 through 127 (for example, `:instanceid101.mst`). In addition, if you are installing a new instance, you must also specify the Windows Installer **MSINEWINSTANCE=1** property on the command line; for example, if you are installing a second instance of Caché named `:instanceid1.mst`, the command line must include:

```
... TRANSFORMS=:instanceid1.mst MSINEWINSTANCE=1 ...
```

Note: Caché lets you install up to 128 instances on a system. Although it is not necessary to use instance transforms when you install the first, or only, instance of Caché, all other instances must be uniquely identified with the **TRANSFORMS** property.

Command-Line Properties

Property Name	Description
ADDLOCAL	Use this property to custom install a subset of Caché features. Specify `ALL` (to install all features) or a *feature* (to install a subset of Caché features), or accept the default. If you want to custom install specific features, you must specify a comma-separated list (see the Custom-installable Features table). See also the "**REINSTALL**" and "**REMOVE**" properties in this table. **Note:** The default is `ALL`.

Property Name	Description
CACHESERVICEDOMAIN	This property is required if the service credentials are defined as `UserDefined`; see the "**SERVICECREDENTIALS**" property in this table. Use this property to specify the domain used for the Windows Caché service login account. **Note:** If the service credentials are specified as `LocalSystem`, do not use this property.
CACHESERVICEPASSWORD	This property is required if the service credentials are defined as `UserDefined`; see the "**SERVICECREDENTIALS**" property in this table. Use this property to specify the password used for the Windows Caché service login account. **Note:** If the service credentials are specified as `LocalSystem`, do not use this property.
CACHESERVICEUSER	This property is required if the service credentials are defined as `UserDefined`; see the "**SERVICECREDENTIALS**" property in this table. Use this property to specify the username used to run the Windows Caché service. **Note:** If the service credentials are specified as `LocalSystem`, do not use this property.
CACHEUSERPASSWORD	This property is required if the security level is `Normal`or `Locked Down`; see the "**INITIALSECURITY**" property in this table. Use this property to specify a Caché password. **Note:** If the initial security level is `None`, do not use this property.

Property Name	Description
INITIALSECURITY	Use this property to specify the level of security to be used by the instance being installed. Specify `None`, `Normal`, or `Locked Down`, or accept the default. See also the "**SKIPSECURITYDIALOGS**," "**CACHEUSERPASSWORD**," and "**SERVICECREDENTIALS**" properties in this table. **Note:** The default is `None`.
INSTALLDIR	Use this property to specify the directory in which the instance is to be installed. Specify a *install-dir* or accept the default. **Note:** The default directory is C:\InterSystems\CACHE*n*, where *n* is `{empty}`, `1`, `2`, ... `127`.
INSTANCENAME	Use this property to specify the instance name to be used by the instance being installed. Specify a *name* or accept the default. See also the "**REINSTALL**" and "**REMOVE**" properties in this table. **Note:** The default instance name is the first available CACHE*n*, where *n* is `{empty}`, `1`, `2`, ... `127`.
REINSTALL	Use this property to repair (reinstall) an instance of Caché or specific (custom-installed) features installed for the specified instance of Caché. Specify a *feature* (to reinstall specific Caché features, as described in the Custom-installable Features table), `ALL` (to reinstall whatever features are installed for the instance — whether that is custom-installed subset of features or all features), or accept the default. See also the "**ADDLOCAL**" property in this table. **Note:** If there are multiple instances installed, you must specify the "**INSTANCENAME**" you want to repair (see the "**INSTANCENAME**" property in this table) if this property is used.

Property Name	Description
REMOVE	Use this property to remove (uninstall) an instance of Caché or specific (custom-installed) features installed for the specified instance of Caché. Specify a *feature* (to uninstall specific Caché features, as described in the Custom-installable Features table), `ALL` (to uninstall an instance of Caché), or accept the default. See also the "**ADDLOCAL**" property in this table. **Note:** If there are multiple instances installed, you must specify the **INSTANCENAME** you want to remove (see the "**INSTANCENAME**" property in this table) if this property is used.
SERVICECREDENTIALS	This property is required if the security level is `Normal` or `Locked Down`; see the "**INITIALSECURITY**" property in this table. Use this property to specify the type of credentials required for users to log on to Caché services: `LocalSystem` (default system account, which runs Caché as the Windows Local System account) or `UserDefined` (defined Windows user account, which lets users access services necessary to administer Caché); if you select `UserDefined`, you must also specify the "**CACHESERVICEDOMAIN**" , "**CACHESERVICEPASSWORD**" , and "**CACHESERVICEUSER**" properties, which are described in this table. **Note:** The default is `LocalSystem`. If the initial security level is `None`, do not use this property.
SUPERSERVERPORT	Use this property to specify the Superserver port to be used by the instance being installed. Specify the port, or accept the default. **Note:** By default, this port is auto-detected, beginning with `1972` (if available), then `56773`, and increasing by 1 for each installed instance of Caché.

Property Name	Description
UNICODE	Use this property to specify whether 8–bit or 16–bit Unicode characters are to be supported by the instance being installed. For 8–bit characters, specify `0`; for 16–bit characters, specify `1`. See also the "**SKIPUNICODEDIALOGS**" property in this table. **Note:** By default, 16–bit Unicode characters are specified; that is, the default is `1`.
WEBSERVERPORT	Use this property to specify the Webserver port to be used by the instance being installed. **Note:** By default, this port is auto-detected, beginning with `57772` and increasing by 1 for each installed instance of Caché.

The Custom-Installable Features table lists component group/component names and the associated *featurename* for each. You can specify "ALL" (to specify all available features) or a comma-separated list (with no spaces) of feature names (to specify individual features).

To specify components in ADDLOCAL/REINSTALL/REMOVE properties (see the Command-Line Properties table), specify the *featurename* of a component in the Component Group column, followed by the *featurenames* of the specific components in the Components column.

For example, to install only the PDF documentation, include the following in the command line:

```
... ADDLOCAL=documentation,documentation_pdf ...
```

Custom-Installable Features

Component Group (feature name)	Components (feature name)
Server (**server**)	Samples database (**server_samples**) User database (**server_user**) SQL Gateway (**sqlgateway**) Server monitoring tools (**server_monitoring**) **Note:** For Ensemble and HealthShare only: ENSDemo database (**server_ensdemo**)
Launcher (**cube**)	

Component Group (feature name)	Components (feature name)
Studio (**studio**)	
xDBC (**sqltools**)	ODBC (**odbc**) JDBC (**jdbc**)
Development (**development**)	C++ Binding (**cppbind**) Light C++ Binding (**lcbind**) C++ SDK (**cppsdk**) Callin (**callin**) Perl Binding (**perlbind**) Python Binding (**pythonbind**) Java (**javabind**) .NET Binding (**dotnetbind**) Threaded Server Libraries (**server_threaded**) ActiveX Connectivity (**activex**) Other Samples (**other_samples**)
Documentation (**documentation**)	PDF Documentation (**documentation_pdf**) Online Documentation (**documentation_online**)
CSP Gateway (**cspgateway**)	IIS (cspiis) Apache 2.0 (**cspapache20**) Apache 2.2 (**cspapache22**)

2 Using the Installation Utility

This section describes how to perform the following tasks, including examples:

- Run a Silent Install
- Run a Silent Upgrade
- Run a Silent Reinstall

- Run a Silent Uninstall

2.1 Run a Silent Install

To launch silent install of a new instance of Caché with logging enabled (**/l**), run **msiexec /i** with the **/qn** command line option:

```
msiexec /i <path>\<product>.msi /qn <properties> /l <logfile>
```

where <*path*> is the path to the package you are installing, <*product*>`.msi` is the package you are installing (cache_x86.msi, cache_x64.msi, cache_ia64.msi), <*path*> is the path to the package you a<*properties*> (see the Command-Line Properties table) are the properties (responses) you are passing to the silent install application, and <*logfile*> is the name of the optional logfile (including an existing path).

Note: When running setup in silent mode, no messages are displayed.

If you are installing multiple instances, you must uniquely identify each instance (after the first instance) by including the **TRANSFORMS** property in the command line; furthermore, if you installing a new instance, you must also specify the **MSINEWINSTANCE** property (set to **1**) as follows:

```
msiexec /i ... TRANSFORMS=:instanceid<N>.mst MSINEWINSTANCE=1
```

where `:instanceid`<*N*>`.mst` is the instance number you are assigning to the instance of Caché.

Also, for new installations, Caché is configured to start when the user's PC is booted. You can change the configuration by specifying the Windows Installer **SERVICEAUTOSTART** property (set to **0**) , as follows:

```
msiexec /i ... SERVICEAUTOSTART=0
```

For example, to install an instance of Caché (from a DVD in drive F:) with the default instance name cache in an installation directory named C:\InterSystems\Cache20091, on a 32–bit processor PC (cache_x86.msi package), specify the following:

```
msiexec /i F:\nt\cache_x86.msi /qn INSTALLDIR=C:\InterSystems\Cache20091
```

Alternatively, you can custom install a subset of features (see the ADDLOCAL property in the Command-Line Properties table). For example, to install only the Launcher and the PDF version of documentation in an installation that uses the default instance name and default installation directory on a 32–bit processor PC (cache_x86.msi package), specify the following:

```
msiexec /i F:\nt\cache_x86.msi /qn ADDLOCAL=cube,documentation,documentation_pdf
```

2.2 Run a Silent Upgrade

The Windows Installer determines whether it is upgrading or reinstalling the instance of Caché. If the version of the package <*product*>.msi specified in the command line is the same as the installed version, the installer reinstalls (repairs) the instance of Caché. However, if the version of the package is later than the installed version, the installer upgrades the instance of Caché to the new version.

When upgrading an instance of Caché, the command line is different depending on whether you are upgrading from an earlier version (that is, 2008.2 or earlier) or a later version (that is, 2009.1 or later). For specific information about the differences, see:

- Upgrading From Releases Prior to 2009.1 and
- Upgrading From Releases After to 2008.2

2.2.1 Upgrading From Releases Prior to 2009.1

When upgrading from version 2008.2 or earlier to the current release with logging enabled (**/l**), run **msiexec /i** with the **/qn** command line option, the **INSTANCENAME** property, as follows:

```
msiexec /i <path>\<product>.msi /qn INSTANCENAME=<instname> /l <logfile>
```

where <*path*> is the path to the package you are installing, <*product*>.msi is the package you are installing (cache_x86.msi, cache_x64.msi, cache_ia64.msi), <*instname*> is the name of the pre-2009.1 instance you are upgrading), and <*logfile*> is the name of the optional logfile (including an existing path).

Note: When running upgrade in silent mode, no messages are displayed.

For example, to upgrade an instance of version 2008.2 Caché named MyCache, specify the following:

```
msiexec /i F:\nt\cache_x86.msi /qn INSTANCENAME=MyCache
```

2.2.2 Upgrading From Releases After 2008.2

When upgrading from version 2009.1 or later to the current release, the format of the command depends on whether you are upgrading the first/only instance or a specific instance.

Note: When running upgrade in silent mode, no messages are displayed.

To upgrade the first, or only, instance of Caché with logging enabled (**/l**), run **msiexec /i** with the **/qn** command line option, as follows:

```
msiexec /i <path>\<product>.msi /qn /l <logfile>
```

where <*path*> is the path to the package you are installing, <*product*>`.msi` is the package you are installing (cache_x86.msi, cache_x64.msi, cache_ia64.msi), and <*logfile*> is the name of the optional logfile (including an existing path).

For example, to upgrade the only installed instance of version 2009.1 Caché, specify the following:

```
msiexec /i F:\nt\cache_x86.msi /qn
```

To upgrade a specific instance of Caché, run **msiexec /i** with the **/qn** command line option, and the **TRANSFORMS and MSINEWINSTANCE** properties, as follows:

```
msiexec /i <pth>\<product>.msi /qn TRANSFORMS=:instanceid<N>.mst MSINEWINSTANCE=1
```

where <*pth*> is the path to the package you are installing, <*product*>`.msi` is the package you are installing (cache_x86.msi, cache_x64.msi, cache_ia64.msi), and `:instanceid`<*N*>`.mst` is the name of the instance you are upgrading.

For example, to upgrade an instance of version 2009.1 Caché named `:instanceid2.mst`, specify the following:

```
msiexec /i F:\nt\cache_x86.msi /qn TRANSFORMS=:instanceid2.mst MSINEWINSTANCE=1
```

2.3 Run a Silent Reinstall

To launch silent reinstall with logging enabled (**/l**), run **msiexec /i** with the **/qn** command line option:

```
msiexec /i <path>\<product>.msi /qn REINSTALL=<features> /l <logfile>
```

where <*path*> is the path to the package you used when you installed Caché, <*product*>`.msi` is the package you installed (cache_x86.msi, cache_x64.msi, cache_ia64.msi), <*features*> is the list of features (or, to reinstall all previously-installed features, `ALL`), and <*logfile*> is the name of the optional logfile (including an existing path).

Note: When running reinstall in silent mode, no messages are displayed.

For example, to reinstall (repair) all previously-installed features of an single instance of Caché (installed from a DVD in drive F: without using an instance transform), specify the following:

```
msiexec /i F:\nt\cache_x86.msi /qn REINSTALL=ALL
```

However, if you installed multiple instances of Caché with instance transforms, to reinstall a specific instance of Caché installed as `:instanceid2.mst`, specify the instance transform as follows:

```
msiexec /i F:\nt\cache_x86.msi /qn TRANSFORMS=:instanceid2.mst REINSTALL=ALL
```

Alternatively, you can reinstall (repair) a subset of features in a previously installed instance of Caché. For example, to reinstall the online version of documentation in an installation that has a single instance

of Caché installed in the default installation directory on a 32–bit processor PC (cache_x86.msi package) without using instance transforms, specify the following:

```
msiexec /i F:\nt\cache_x86.msi /qn REINSTALL=documentation,documentation_online
```

2.4 Run a Silent Uninstall

To launch silent uninstall with logging enabled (**/l**), run **msiexec /x** with the **/qn** command line option:

```
msiexec /x <product>.msi /qn /l <logfile>
```

where <*product*>`.msi` is the package you installed (cache_x86.msi, cache_x64.msi, cache_ia64.msi) and <*logfile*> is the name of the optional logfile (including an existing path).

Note: When running uninstall in silent mode, no messages are displayed.

For example, to uninstall an instance of Caché for which an instance transform was not used, specify the following:

```
msiexec /x cache_x86.msi /qn
```

However, if you installed instances of Caché with instance transforms, to uninstall a specific instance of Caché installed as `:instanceid2.mst`, specify the instance transform as follows:

```
msiexec /x cache_x86.msi /qn TRANSFORMS=:instanceid2.mst
```

Alternatively, you can use the **/i** command line option with the REMOVE property to remove an instance, or subset of features installed for an instance, of Caché:

```
msiexec /i <product>.msi /qn REMOVE=<features>
```

where <*product*>`.msi` is the package you are uninstalling (cache_x86.msi, cache_x64.msi, cache_ia64.msi), and <*features*> is the list of features to remove (or, to remove the instance, ALL). For example, if you installed a single instance of Caché without specifying an instance transform, the following command line would remove it:

```
msiexec /i cache_x86.msi /qn REMOVE=ALL
```

where cache_x86.msi is the name of the Caché product you are uninstalling.

If you installed instances of Caché with instance transforms, the following command line would remove the specific instance of Caché installed as `:instanceid2.mst`:

```
msiexec /i cache_x86.msi /qn TRNSFORMS=:instanceid2.mst REMOVE=ALL
```