

**NCache Release Notes
Bugs Fixes and Enhancements**

Last Modified:

April 21, 2010

Table of Contents

Release Notes NCache 3.6.2 (Service Pack3)	3
Release Notes NCache 3.6.2 (Service Pack2)	5
Release Notes NCache 3.6.2 (Service Pack1)	7
Release Notes NCache 3.6.2	9
Release Notes NCache 3.6.1	10

Release Notes NCache 3.6.2 (Service Pack3)

Thursday, April 21, 2010

Introduction

NCache 3.6.2 Service Pack 3 (SP3) contains important fixes and enhancements that have been reported by customers. The most important and demanded feature added in this release is the support of Java session caching for J2EE platforms. Now, you can easily use NCache as a session store for your Java applications without making any code change. You only need to add a Java session filter in your web.xml file.

Those using NCache 3.6.x version can upgrade without re-building/re-compiling the application.

Enhancements and New additions

Following features are added to this service pack 3.

1. Java Session Support for WebLogic (no-code change required)

NCache Java Session Provider is supported for WebLogic and can be used on any platform of J2EE (web servers), if underlying platform (web server) follows the Java Servlet 2.3 (or later) specification. Java Sessions are supported on both Linux and Windows platforms.

2. Java Session Support for JBoss (no-code change required)

NCache Java Session Provider is supported for JBoss on both Linux and Windows platforms.

3. Java Session Support for WebSphere (no-code change required)

NCache Java Session Provider is supported for WebSphere on both Linux and Windows platforms.

4. Java Session Support for ApacheTomcat (no-code change required)

NCache Java Session Provider is supported for Apache-Tomcat on both Linux and Windows platforms.

5. NCache support for Server GC

There are two flavors of Garbage Collector based on server operating system and workstation called "Server GC" and "Workstation" respectively. Unless it is specified .NET framework uses workstation GC by default even it is running under server operating system. Now, NCache allows you to specify GC mode depending on your operating system.

Server GC is designed for maximum throughput, and scales with very high performance. NCache is now by default configured to use Server GC instead of Workstation GC. You can change this mode from Alachisoft.NCache.Service.exe.config

```
<add key="NCacheServer.EnableForcedGC" value="true" />
<add key="NCacheServer.ForcedGCThreshold" value="80" />
```

List of Bugs Fixed:

[736228](#) FIX: NCache installation fails on Windows 7 because of new security model in Windows 7. This has been fixed now.

736227 FIX: There was a bug in Client Queue Counter which becomes negative at some particular stage. This bug has been fixed.

736226 FIX: There was a bug in item expiration in Java API which has been fixed now.

APPLIES TO:

- NCache Enterprise Edition 3.6.x

Release Notes NCache 3.6.2 (Service Pack2)

Monday, Jan 11, 2010

Introduction

NCache 3.6.2 Service Pack 2 (SP2) contains important fixes and enhancements that have been reported by customers. It is a recommended upgrade for all users of NCache. Those using NCache 3.6.x version can upgrade without re-building/re-compiling the application.

Enhancements and New additions

Following features are added to this service pack.

1. Logging of Important events into event viewer

An event will be logged in windows event viewer and cache-error log when

- o you stop or start a cache
- o cache fails to start
- o cache node joins/leaves a cluster
- o state transfer start or stop.
- o client connect or disconnect a cache
- o cache memory crosses a certain threshold specified in service config file.
- o you are on last 10 days of NCache evaluation and a log warning event will be logged per day until you extend the evaluation or activate NCache with a license key.

These events are categorized as information, warning and information.

```
<add key="NCacheServer.EventLogLevel" value="error | warning| all"/>
```

User can specify only one of the following levels:

error: Only the error events will be logged

warning: Both error and warning events will be logged.

all: This level allows events of all categories to be logged. This is the default level.

Client Connection Log entry for event viewer/log-file can be enabled from NCache Service configuration file. By default this option is disabled but you can enable it by modifying the following attribute in NCache service config file "Alachisoft.NCache.Service.exe.config".

```
<add key="NCacheServer.LogClientEvents" value="false" />
```

NOTE: The above change requires NCache service to restart.

2. Oracle 11g is supported

NCache now supports Oracle 11g for database dependency and synchronization feature.

List of Bugs Fixed:

[736225](#) FIX: Some of NCache clients stop responding when the cache cluster is under stress and you add a new caching server or the cache servers are using shared network card on VM.

[736224](#) FIX: NCache service (Alachisoft.NCache.Service.exe) and NCache Manager stop responding when the cache is under stress and you add a new caching server or the cache servers are using shared network card on VM.

[736223](#) FIX: NCache service stops responding due to Hashmap corruption. This is similar to the above mentioned service hanging scenario, however in this scenario, service hangs for indefinite time.

[736222](#) FIX: Cache stops expiring items from the cache if a WMI call does not respond for a long period of time because of WMI unresponsive state.

[736221](#) FIX: Client unbalancing in Partitioned and Partitioned Replica on node joining is fixed now. This only happens in very rare situations.

[736220](#) FIX: Clients were not able to get real performance benefits of client-optimization feature of Partitioned Replica if the clients are 32-bit and cache is 64bit or vice versa.

[736219](#) FIX: Cache state transfer (starts when a cache node joins the cluster) does not transfer those items which have multi-level key dependent items.

[736218](#) FIX: Java client environmental issues have been fixed. Now you can pass client.nconf file path from API. Java client now supports both Windows and Linux environment.

[736217](#) FIX: Java sample application bugs are fixed now

[736216](#) FIX: NCache service does not start if the socket call fails to bind itself network card. NCache now tries to establish the connection without binding.

[736215](#) FIX: When you unplug the network cable Client hanging issue when cable is unplugged during stress is fixed now. This normally happened in replicated topology and the client operations were hanged for sometime.

[736214](#) FIX: NCache tag query throws "Null Reference" in partitioned and partitioned replica topologies when used with LIKE operator and the tag does not exist.

[736213](#) FIX: NCache throws "Data group mismatch" exception when you update and item by calling INSERT method with locking and group parameters.

APPLIES TO:

- NCache Enterprise Edition 3.6.x
- NCache Professional Edition 3.6.x

Release Notes NCache 3.6.2 (Service Pack1)

Tuesday, Oct 06, 2009

Introduction

NCache 3.6.2 Service Pack 1 (SP1) contains important fixes and enhancements that have been reported by customers. It is a recommended upgrade for all users of NCache. Those using NCache 3.6.x version can upgrade without re-building/re-compiling the application.

Enhancements and New additions

Following features are added to this service pack.

1. Cluster Rejoining feature

To overcome socket breaking issues within cluster nodes, NCache has a new connection retry logic which is configurable in config.nconf in cluster configuration.

```
connection-retries="10" connection-retry-interval="1secs"
```

In case a socket breaks due to Network problems, NCache will try to re-establish the connection after every connection-retry-interval as many times as connection-retries. [This requires a restart of NCache service after update.](#)

2. Addition of NCache Client side counters

NCache client side counters are introduced to detect and debug client side issues. These counters appear in Windows perfmon counters in category 'NCache Client'.

3. Asynchronous startup of caches in Autostart

NCache autostart feature is enhanced and starting up of various user specified caches with NCache service start up, is made asynchronous. If some caches are corrupt and are not started, a warning is logged but NCache service starts up normally.

4. Client-cache-sync mode description

Client cache sync mode description is added in NCache Help.

5. Memory estimation and warning mechanism in cluster configuration

Description about setting up cluster memory, its usage and estimation is added in cluster configurations.

6. NCache Installation in Admin mode

NCache installation wizard warns the user who is not an admin. Administrative privileges and permissions are required for the user to install NCache on a system.

List of Bugs Fixed:

736212 FIX: Items with same Tags if added and removed frequently resulted in corrupting the tag. Items exist in the cache but not gettable with their tag.

736210 FIX: The memory leakage related with LOH results in high memory consumption in case of large objects (more than 80KB) which are not garbage collected.

736209 FIX: NCache generates extra log entries in NCache log files which result in huge log files. These extra logs are removed.

APPLIES TO:

- NCache Enterprise Edition 3.6.x
- NCache Professional Edition 3.6.x

Release Notes NCache 3.6.2

Thursday, July 09, 2009

Introduction

NCache 3.6.2 contains a number of useful enhancements and bug fixes that have been reported by customers. It is a recommended upgrade for all users of NCache. Those using NCache 3.6.x version can upgrade without re-building/re-compiling the application.

Enhancements and New additions

Following features are added to this version.

1. Log Traces

Log traces are added for the following events

1. When a node successfully joins a node in the cluster.
2. When a node can not join a node in the cluster.
3. When a node leaves the cluster.

2. Polling based database dependency improvements

Polling based database dependency has the following improvements.

4. User can specify the 'db-cache-key' other than the 'cache-key' to add to the ncache_db_sync table.
5. Resync-expired-items option is now available for this dependency.

3. Client.nconfg can be opened in notepad

4. Improved Error messages

Error messages are improved when service fails to start because of unavailable bind-to-ip addresses.

List of Bugs Fixed:

[736208](#) FIX: Expiration problem that arises in around 20-30 days of using NCache results in items occupying memory leading to high memory usage.

[736207](#) FIX: Client.nconfg is rewritten by NCache service restart and old changes are lost.

[736206](#) FIX: Groups and tags information is not preserved if the items are read-thru from a datasource. Items are loaded in the cache but do not have the tag or group already specified.

[736205](#) FIX: IIS worker process high CPU consumption bug is fixed

APPLIES TO:

- NCache Enterprise Edition 3.6.x
- NCache Professional Edition 3.6.x

Release Notes NCache 3.6.1

Thursday, March 26, 2009

Introduction

NCache 3.6.1 contains a number of useful enhancements and bug fixes that have been reported by customers. It is a recommended upgrade for all users of NCache. Those using NCache 3.6.x version can upgrade without re-building/re-compiling the application.

Enhancements and New additions

Following features are added to this version.

1. NCache client rebalancing among cache server nodes

Now the NCache client connections are automatically rebalanced among the cluster nodes when a new node joins the cache. So now you do not have to worry any more about client load balancing on cache servers.

2. New Counters for performance monitoring

New counters for performance monitoring are added in the 'NCache' category in Windows Perfmon counters.

3. Improvements in DB dependency

NCache now supports the use of Stored-Procedures and Command Object in DB Dependency.

List of Bugs Fixed:

[736204](#) FIX: NCache service constantly consumes CPU if there is one item left in the cache with the SQL Yukon dependency and the dependency is triggered.

[736203](#) FIX: AVG counters show incorrect values for Average Add/sec, Update/sec and Remove/sec.

[736202](#) FIX: Memory leakage and performance issue related with Least Recently Used and Least Frequently Used eviction policies (LRU/LFU).

[736201](#) FIX: Bind to IP Dialog corrupts the display if there are more than 2 network cards on a system.

[736200](#) FIX: NCache Service consumes CPU at some fixed interval even when there is no activity on the cache after a load test is stopped after running for hours.

APPLIES TO:

- NCache Enterprise Edition 3.6.x
- NCache Professional Edition 3.6.x