

Notify

DistributedCache [Extensions]

Entry point into the distributed cache infrastructure - resolves servers (via IServerRegistrar) and a server messenger (IServerMessenger) and transfer notifications to the messenger, so the messenger can transfer them to all servers (including the local one)

ServerMessengerResolver

IServerMessenger

Broadcasts distributed cache notifications to servers, and manages the local server (notifications

must be processed immediately)

PerformRefresh(...), PerformRefreshAll(...), PerformRemove(...)

ServerMessengerBase {abstract}

Base class for all messengers. Notifies cache refreshers immediately on the local server, and then messages remote servers

Core/WebServiceServerMessenger {legacy}



Sends remote notifications via webservice to all servers Via ServerSyncWebServiceClient To CacheRefresher.asmx - which notifies ICacheRefreshers

Core / BatchedWebServiceServerMessenger {abstract}



Queues remote notifications in a batch and sends them to all servers as one message per server, when flushed

Web/BatchedWebServiceServerMessenger {current default}

Flushes the batch at the end of the current http request

TODO

WebServiceServerMessenger should not message the local server - see WebServerUtility There should be a Notify method accepting a payload that would not be serialized on the local server, would replace RefreshByJson

Core/DatabaseServerMessenger {abstract}

Stores remote notifications in the database Manages database notifications to notify ICacheRefreshers

Core / BatchedDatabaseServerMessenger {abstract}

Queues remote notifications in a batch and store them as one message when flushed

Web/BatchedDatabaseServerMessenger {new}

Flushes the batch at the end of the current http request Syncs the server at the start of each request (throttled) Boots the server at the start of the application



ServerRegistrarResolver

IServerRegistrar

Returns registrations as IEnumerable<IServerAddress>

ConfigServerRegistrar

Uses settings (IServer) to return ConfigServerAddress

DatabaseServerRegistrar

Uses ServerRegistrationService to return ServerRegistration

IServer

Represents a server in the setttings, used by ConfigServerRegistrar to initialize ConfigServerAddress

ServerElement

IServerAddress

Provides the address of a server as a string

ConfigServerAddress ServerRegistration

By default, servers must be registered manually in the config and then the ConfigServerRegistrar will list them

The new system have them registered automatically in the database for info only (because we just guess the address) though registration's not used anymore really

ServerRegistrationEventHandler

Auto-register servers for information purposes (cannot be used for http)

ServerRegistrationService

ServerRegistrationRepository ServerRegistrationMapper ServerRegistrationFactory ServerRegistrationDto



The envelope is what's used by the messenger to wrap the instructions with infos about the target servers.

ServerMessengerBase takes care of notifying the ICacheRefresher instances immediately on the local server, then the actual messenger makes sure the notifications are sent to other servers.

Either CacheRefresher.asmx (for the webService thing) or DatabaseServerMessenger (for the new DB thing) will then notify the ICacheRefresher instances on the remote servers.

RefreshInstructionEnvelope

Contains a list of target servers (IServerAddress), and a list of RefreshInstructions

RefreshInstruction ••••• RefreshMethodType



- by CacheRefresher.asmx or DatabaseServerMessenger
- to notify the ICacheRefresher

CacheInstructionDto

Stored in the database, contains a timestamp, the origin identity, and RefreshInstructions

----- ICacheRefresher

