

## **CmsTreeBuilder Update, Version 5.6.2.0 For AbleCommerce 5.5 build 1236 and higher**

To speed up certain operations within the retail environment, AbleCommerce creates and caches an XML document that contains a subset of information about the store catalog. When a store has a large catalog with many categories, subcategories, and products the function to build the XML document does not perform acceptably.

Symptoms include periods of sustained 100% CPU load, long website restarts, and in extreme cases, failure of the aspnet process. This system load lasts only as long as the XML document is being constructed, after which performance on the system will return to acceptable levels. The degrade

To overcome this problem, a new API component “CmsTreeBuilder” was created to handle the construction of the cached XML catalog. The CmsTreeBuilder is highly optimized so it can handle any size catalog.

### **Installation (AbleWizard Template)**

- 1) Locate the “bin” folder of the store you want to patch.
  - a. If your store shares the same web application as the installation (you access your store through the URL like “/install/stores/1/”), you need to find the “bin” folder for the installation. The default location is C:\Program Files\Able Solutions\acb\webshare\bin.
  - b. If your store does not share a web application with the installation (you access your store like “http://mystore” or “http://server/mystore”) then you need to locate the folder where the store files reside. Then open the “bin” subfolder from there.

If you are not sure where the store folder is, you can edit the store from the master control panel. You want to open the bin folder inside the “Physical Path” location.

- 2) Copy the “CmsTreeBuilder.DLL” file from the patch into the bin folder for your store.
- 3) You must now make small modifications to the following files in your store: directory.aspx, includes/leftnav.aspx, includes/rightnav.aspx. The code changes are listed in the two following pages. You should make backups of all files prior to editing.

Also be careful of line wrap in this document. The code changes are also provided in a separate text file named “CodeChanges.txt” so that line wrap can be disabled.

- 4) Once code changes are completed, the updated tree builder has been installed. Open your store in a web browser to verify it is operating properly.

## DIRECTORY.ASPX

### *Find, around line 170:*

```
if Application("ObjectTree" & intStoreID) Is Nothing then
    Application("ObjectTree" & intStoreID) = cbCategory.GetObjectTreeXML(objtoken, 0)
    Application("ObjectTreeDT" & intStoreID) = Now()
elseif DateDiff("n", FCast.FDate(Application("ObjectTreeDT" & intStoreID)), Now) >=
intCacheLifeSpan then
    Application("ObjectTree" & intStoreID) = cbCategory.GetObjectTreeXML(objtoken, 0)
    Application("ObjectTreeDT" & intStoreID) = Now()
end if
```

### *Replace With:*

```
If (Application("ObjectTree" & intStoreID) Is Nothing) OrElse (DateDiff("n",
FCast.FDate(Application("ObjectTreeDT" & intStoreID)), Now) >= intCacheLifeSpan) Then
    Dim treeUrl As String = (New Uri(DirectCast(objToken.Store, cbStore).StoreURL)).AbsolutePath
    Dim treeBuilder As New
AbleSolutions.CommerceBuilder5.Cms.CmsTreeBuilder(objToken.StoreGroupDb.Connection,
objToken.Store_ID, treeUrl)
    Application("ObjectTree" & intStoreID) = treeBuilder.GenerateTree()
    treeBuilder.dispose()
    treeBuilder = Nothing
    Application("ObjectTreeDT" & intStoreID) = Now()
End If
```

## LEFTNAV.ASPX

### *Find, around line 52:*

```
If Application("ObjectTree" & intStoreID) Is Nothing Then
    Application("ObjectTree" & intStoreID) = cbCategory.GetObjectTreeXML(objtoken, 0)
    Application("ObjectTreeDT" & intStoreID) = Now()
ElseIf DateDiff("n", FCast.FDate(Application("ObjectTreeDT" & intStoreID)), Now) >=
intCacheLifeSpan Then
    Application("ObjectTree" & intStoreID) = cbCategory.GetObjectTreeXML(objtoken, 0)
    Application("ObjectTreeDT" & intStoreID) = Now()
End If
```

### *Replace With:*

```
If (Application("ObjectTree" & intStoreID) Is Nothing) OrElse (DateDiff("n",
FCast.FDate(Application("ObjectTreeDT" & intStoreID)), Now) >= intCacheLifeSpan) Then
    Dim treeUrl As String = (New Uri(DirectCast(objToken.Store, cbStore).StoreURL)).AbsolutePath
    Dim treeBuilder As New
AbleSolutions.CommerceBuilder5.Cms.CmsTreeBuilder(objToken.StoreGroupDb.Connection,
objToken.Store_ID, treeUrl)
    Application("ObjectTree" & intStoreID) = treeBuilder.GenerateTree()
    treeBuilder.dispose()
    treeBuilder = Nothing
    Application("ObjectTreeDT" & intStoreID) = Now()
End If
```

## RIGHTNAV.ASPX

### *Find, around line 52:*

```
If Application("ObjectTree" & intStoreID) Is Nothing Then
    Application("ObjectTree" & intStoreID) = cbCategory.GetObjectTreeXML(objtoken, 0)
    Application("ObjectTreeDT" & intStoreID) = Now()
ElseIf DateDiff("n", FCast.FDate(Application("ObjectTreeDT" & intStoreID)), Now) >=
intCacheLifeSpan Then
    Application("ObjectTree" & intStoreID) = cbCategory.GetObjectTreeXML(objtoken, 0)
    Application("ObjectTreeDT" & intStoreID) = Now()
End If
```

### *Replace With:*

```
If (Application("ObjectTree" & intStoreID) Is Nothing) OrElse (DateDiff("n",
FCast.FDate(Application("ObjectTreeDT" & intStoreID)), Now) >= intCacheLifeSpan) Then
    Dim treeUrl As String = (New Uri(DirectCast(objToken.Store, cbStore).StoreURL)).AbsolutePath
    Dim treeBuilder As New
AbleSolutions.CommerceBuilder5.Cms.CmsTreeBuilder(objToken.StoreGroupDb.Connection,
objToken.Store_ID, treeUrl)
    Application("ObjectTree" & intStoreID) = treeBuilder.GenerateTree()
    treeBuilder.dispose()
    treeBuilder = Nothing
    Application("ObjectTreeDT" & intStoreID) = Now()
End If
```