ALLAN THRAEN | 2 years ago | PDF |

Tips and Tricks Optimizely (Episerver)

SECRET DEBUG TOOLS IN OPTIMIZELY CMS 12

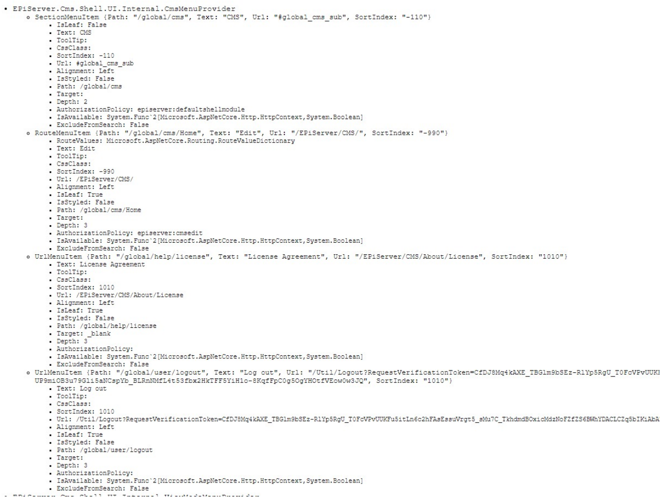
Secret treasures are always fun. And when I was examining the endpoint list from my previous post, I noticed a few hints that I couldn't leave unexplored. It turns out that just as the previous versions, Optimizely CMS 12 comes with a couple of hidden debug gems.

There is a DebugController with a few, but pretty useful listings included out-of-the-box in the CMS. However, in order to see them your user has to be "Administrators". Now, with the default IdentityProviders and not so many out-of-the-box VirtualRoles, that's not what my user was, but since it's just a string check on roles, it was easily fixed by creating a group in Admin mode called "Administrators" and adding my user there.

Tool to see registered menu providers

On the route: */episerver/shell/debug/menu*

I found this practical list:



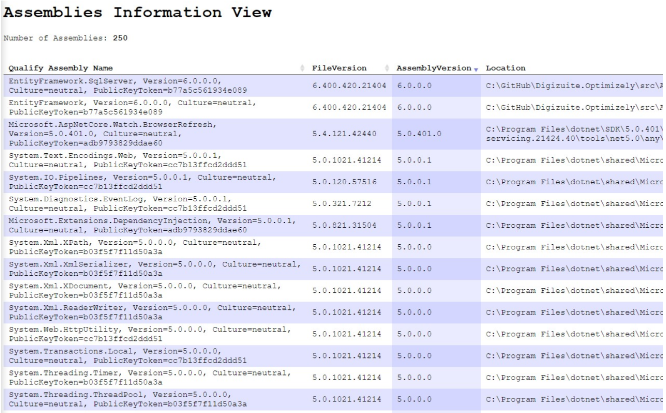
```
• EPiServer.Cms.Shell.UI.Internal.CmsMenuProvider
    ∘ SectionMenuItem {Path: "/global/cms", Text: "CMS", Url: "#global_cms_sub", SortIndex: "-110"}
        ▪ IsLeaf: False
        ▪ Text: CMS
        ▪ ToolTip:
        ▪ CssClass:
        ▪ SortIndex: -110
        ▪ Url: #global_cms_sub
        ▪ Alignment: Left
        ▪ IsStyled: False
        ▪ Path: /global/cms
        ▪ Target:
        ▪ Depth: 2
        ▪ AuthorizationPolicy: episerver:defaultshellmodule
        ▪ IsAvailable: System.Func`2[Microsoft.AspNetCore.Http.HttpContext,System.Boolean]
        ▪ ExcludeFromSearch: False
    ∘ RouteMenuItem {Path: "/global/cms/Home", Text: "Edit", Url: "/EPiServer/CMS/", SortIndex: "-990"}
        ▪ RouteValues: Microsoft.AspNetCore.Routing.RouteValueDictionary
        ▪ Text: Edit
        ▪ ToolTip:
        ▪ CssClass:
        ▪ SortIndex: -990
        ▪ Url: /EPiServer/CMS/
        ▪ Alignment: Left
        ▪ IsLeaf: True
        ▪ IsStyled: False
        ▪ Path: /global/cms/Home
        ▪ Target:
        ▪ Depth: 3
        ▪ AuthorizationPolicy: episerver:cmsedit
        ▪ IsAvailable: System.Func`2[Microsoft.AspNetCore.Http.HttpContext,System.Boolean]
        ▪ ExcludeFromSearch: False
    ∘ UrlMenuItem {Path: "/global/help/license", Text: "License Agreement", Url: "/EPiServer/CMS/About/License", SortIndex: "1010"}
        ▪ Text: License Agreement
        ▪ ToolTip:
        ▪ CssClass:
        ▪ SortIndex: 1010
        ▪ Url: /EPiServer/CMS/About/License
        ▪ Alignment: Left
        ▪ IsLeaf: True
        ▪ IsStyled: False
        ▪ Path: /global/help/license
        ▪ Target: _blank
        ▪ Depth: 3
        ▪ AuthorizationPolicy:
        ▪ IsAvailable: System.Func`2[Microsoft.AspNetCore.Http.HttpContext,System.Boolean]
        ▪ ExcludeFromSearch: False
    ∘ UrlMenuItem {Path: "/global/user/logout", Text: "Log out", Url: "/Util/Logout?RequestVerificationToken=CfDJ8Mq4kAXE_TBGlm9bSEz-RlYp5RgU_T0FcVPvUUK
      UP9miOB3u79Gli5aNCspYb_BLRnNMfL4t53fbx2HkTFF5YiH1o-8KqfFpC0g5OgYHOtfVEow0w3JQ", SortIndex: "1010"}
        ▪ Text: Log out
        ▪ ToolTip:
        ▪ CssClass:
        ▪ SortIndex: 1010
        ▪ Url: /Util/Logout?RequestVerificationToken=CfDJ8Mq4kAXE_TBGlm9bSEz-RlYp5RgU_T0FcVPvUUKFu5itLn6c2hFAsEssuVrgt5_sMu7C_TkhdmdBOxicMdzNoFZfZS6BWhYDACLCZq5bIKiAbA
        ▪ Alignment: Left
        ▪ IsLeaf: True
        ▪ IsStyled: False
        ▪ Path: /global/user/logout
        ▪ Target:
        ▪ Depth: 3
        ▪ AuthorizationPolicy:
        ▪ IsAvailable: System.Func`2[Microsoft.AspNetCore.Http.HttpContext,System.Boolean]
        ▪ ExcludeFromSearch: False
```

FileVersions

And sometimes it can also be pretty useful to know exactly which versions of the various assemblies are loaded. Like you can see here:

/episerver/shell/debug/ShowFileVersions

It looks like this:



Assemblies Information View

Number of Assemblies: **250**

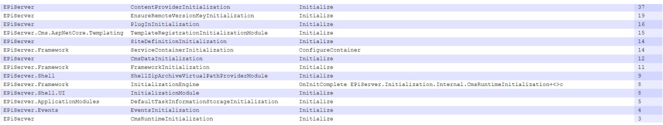
Qualify Assembly Name	FileVersion	AssemblyVersion	Location
EntityFramework.SqlServer, Version=6.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089	6.400.420.21404	6.0.0.0	C:\GitHub\Digizuite.Optimizely\src\
EntityFramework, Version=6.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089	6.400.420.21404	6.0.0.0	C:\GitHub\Digizuite.Optimizely\src\
Microsoft.AspNetCore.Watch.BrowserRefresh, Version=5.0.401.0, Culture=neutral, PublicKeyToken=adb9793829ddae60	5.4.121.42440	5.0.401.0	C:\Program Files\dotnet\SDK\5.0.401\ servicing.21424.40\tools\net5.0\any\
System.Text.Encodings.Web, Version=5.0.0.1, Culture=neutral, PublicKeyToken=cc7b13ffcd2ddd51	5.0.1021.41214	5.0.0.1	C:\Program Files\dotnet\shared\Micro
System.IO.Pipelines, Version=5.0.0.1, Culture=neutral, PublicKeyToken=cc7b13ffcd2ddd51	5.0.120.57516	5.0.0.1	C:\Program Files\dotnet\shared\Micro
System.Diagnostics.EventLog, Version=5.0.0.1, Culture=neutral, PublicKeyToken=cc7b13ffcd2ddd51	5.0.321.7212	5.0.0.1	C:\Program Files\dotnet\shared\Micro
Microsoft.Extensions.DependencyInjection, Version=5.0.0.1, Culture=neutral, PublicKeyToken=adb9793829ddae60	5.0.821.31504	5.0.0.1	C:\Program Files\dotnet\shared\Micro
System.Xml.XPath, Version=5.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro
System.Xml.XmlSerializer, Version=5.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro
System.Xml.XDocument, Version=5.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro
System.Xml.ReaderWriter, Version=5.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro
System.Web.HttpUtility, Version=5.0.0.0, Culture=neutral, PublicKeyToken=cc7b13ffcd2ddd51	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro
System.Transactions.Local, Version=5.0.0.0, Culture=neutral, PublicKeyToken=cc7b13ffcd2ddd51	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro
System.Threading.Timer, Version=5.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro
System.Threading.ThreadPool, Version=5.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a	5.0.1021.41214	5.0.0.0	C:\Program Files\dotnet\shared\Micro

TimeMeters

And finally we have classic listing of where the startup time was spent.

/episerver/shell/debug/ShowTimeMeters

Very practical when optimizing for performance - although I must admit that everything running on .net 5 seems to be blazingly fast!



EPiServer	ContentProviderInitialization	Initialize	37
EPiServer	EnsureRemoteVersionKeyInitialization	Initialize	19
EPiServer	PlugInInitialization	Initialize	16
EPiServer.Cms.AspNetCore.Templating	TemplateRegistrationInitializationModule	Initialize	15
EPiServer	SiteDefinitionInitialization	Initialize	14
EPiServer.Framework	ServiceContainerInitialization	ConfigureContainer	14
EPiServer	CmsDataInitialization	Initialize	12
EPiServer.Framework	FrameworkInitialization	Initialize	11
EPiServer.Shell	ShellZipArchiveVirtualPathProviderModule	Initialize	9
EPiServer.Framework	InitializationEngine	OnInitComplete EPiServer.Initialization.Internal.CmsRuntimeInitialization+<>c	8
EPiServer.Shell.UI	InitializationModule	Initialize	8
EPiServer.ApplicationModules	DefaultTaskInformationStorageInitialization	Initialize	5
EPiServer.Events	EventsInitialization	Initialize	4
EPiServer	CmsRuntimeInitialization	Initialize	3

There is also another view for showing StructureMap services - but since it's not the default DI anymore I am not sure how useful it is.

Granted, it's not the full DeveloperTools which I'm looking forward to being released for CMS 12 - but it's a starting point.

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