

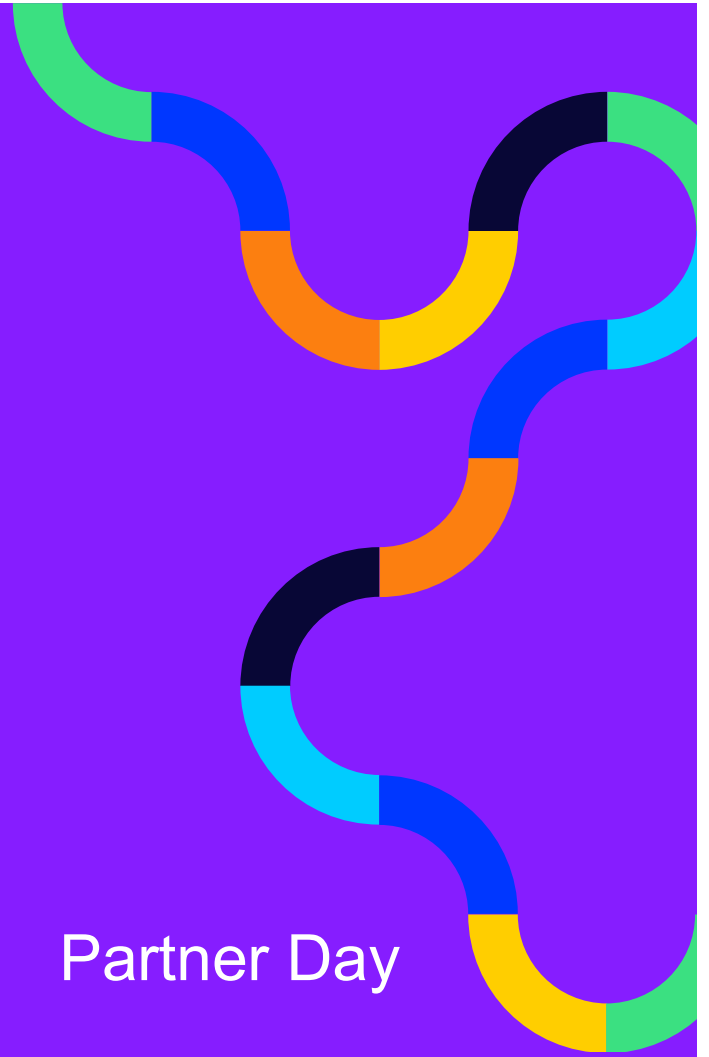
# Opticon<sup>21</sup>

The **path** to potential

Presented By



Partner Day

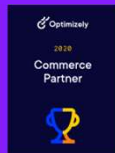


# Optimizely .NET 5

**Scott Reed**

Solution Architect

**niteco**  
Powering Your Ambition

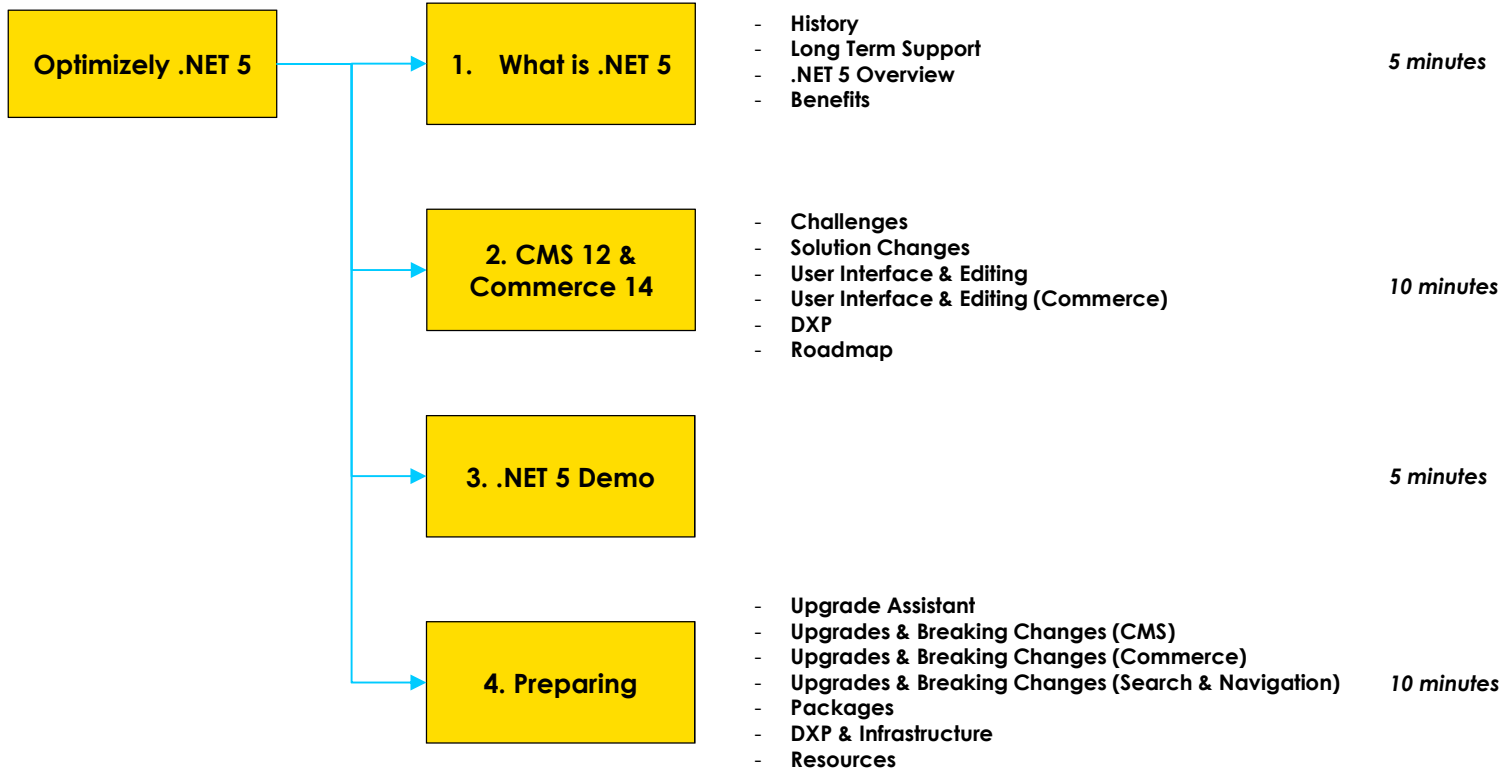


Thursday 16<sup>th</sup> September 2021

Partner Day



# Agenda



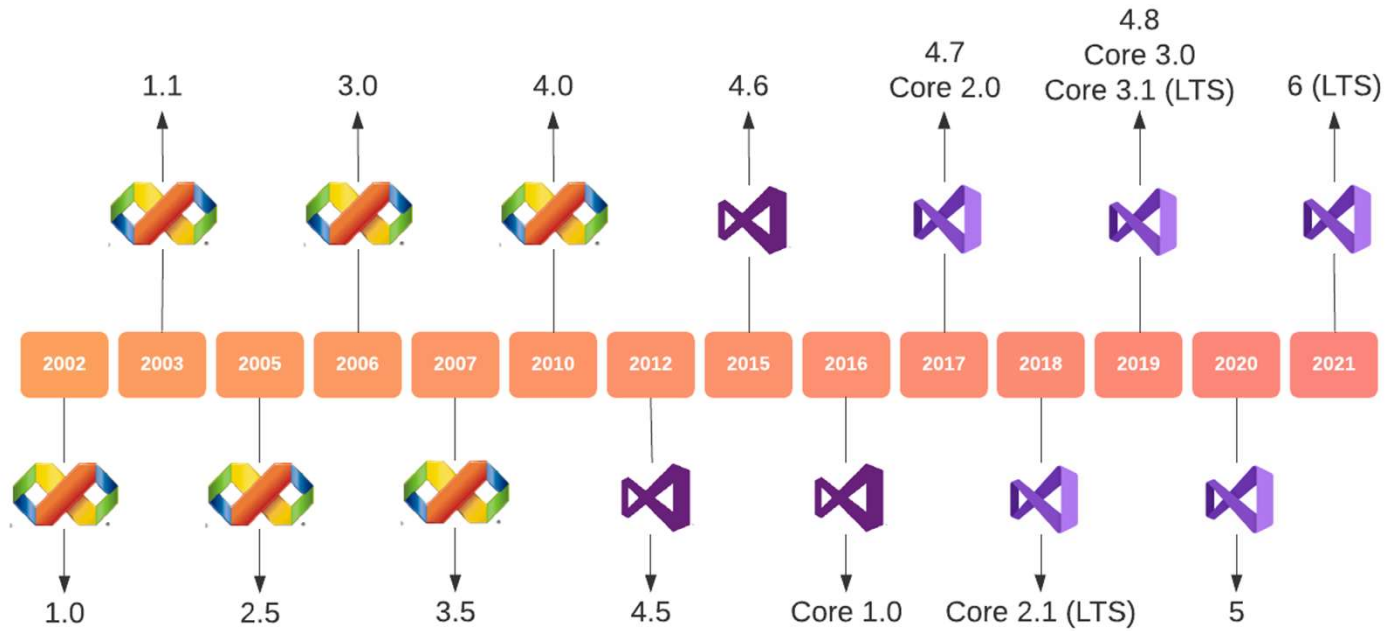
# What is .NET 5?





# .NET 5 History

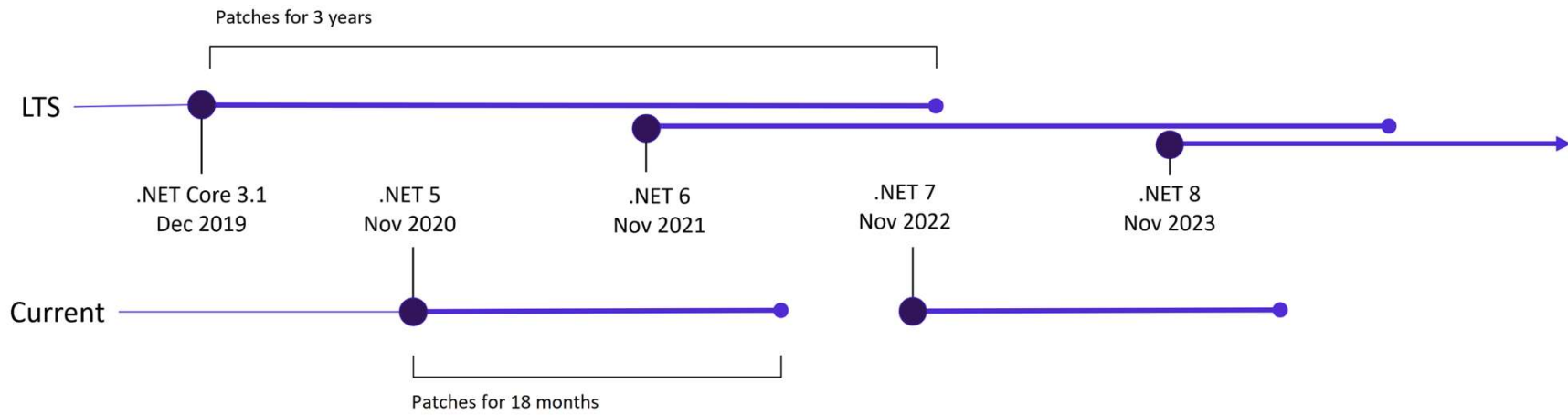
Opticon<sup>21</sup>





# .NET 5 Long Term Support

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<https://dotnet.microsoft.com/platform/support/policy/dotnet-core>





# .NET 5 Overview

## .NET – A unified platform





# .NET 5 Benefits

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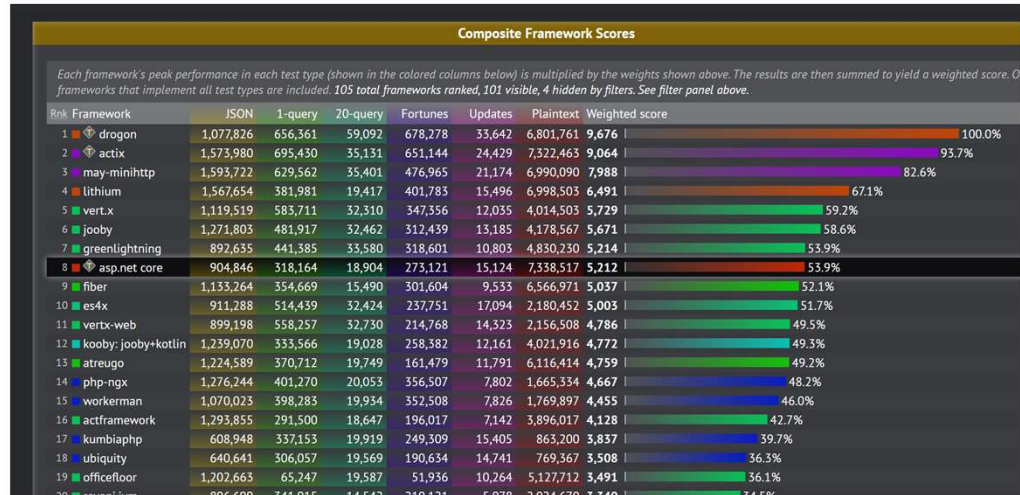
## Performance



## Support



## Future





# CMS 12 & Commerce 14





## Challenges

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**Admin Area**



**Packages**



**Configuration**



**Infrastructure**



**Initialization**



**Migrations**



## Solution Changes

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- .NET CLI support and project template
- Asp.net Dependency Injection
- wwwroot website folder
- Program.cs initializes
- Startup.cs file instead of web.config
- Appsettings.json
- Bundleconfig.json

```
0 references
public void ConfigureServices(IServiceCollection services)
{
    if (_webHostingEnvironment.IsDevelopment())
    {
        services.Configure<SchedulerOptions>(o =>
        {
            o.Enabled = false;
        });

        services.PostConfigure<DataAccessOptions>(o =>
        {
            o.SetConnectionString(_configuration.GetConnectionString("EpiServerDB").Replace("App", "Development"));
        });
        services.PostConfigure<ApplicationOptions>(o =>
        {
            o.ConnectionStringOptions.ConnectionString = _configuration.GetConnectionString("EpiServerDB");
        });
    }

    services.AddCmsAspNetIdentity<ApplicationUser>();
    services.AddMvc();
    services.AddAlloy();
    services.AddCms();
    services.SetupTinyMce();

    services.AddEmbeddedLocalization<Startup>();
}
```

<https://github.com/episerver/netcore-preview/>

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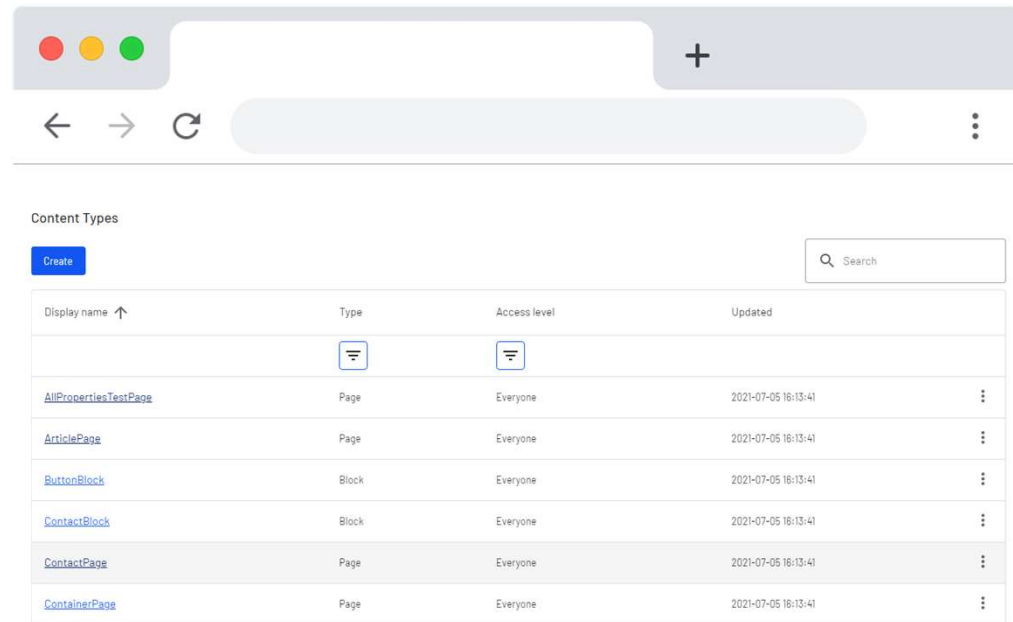




## User Interface & Editing

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- Dashboard & Reports Gone
- Rewritten Admin Area
- GuiPlugIn / PagePlugIn
- JS Frameworks



<https://world.optimizely.com/blogs/martin-ottosen/dates/2021/7/js-sdk-public-preview/>

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Partner Day

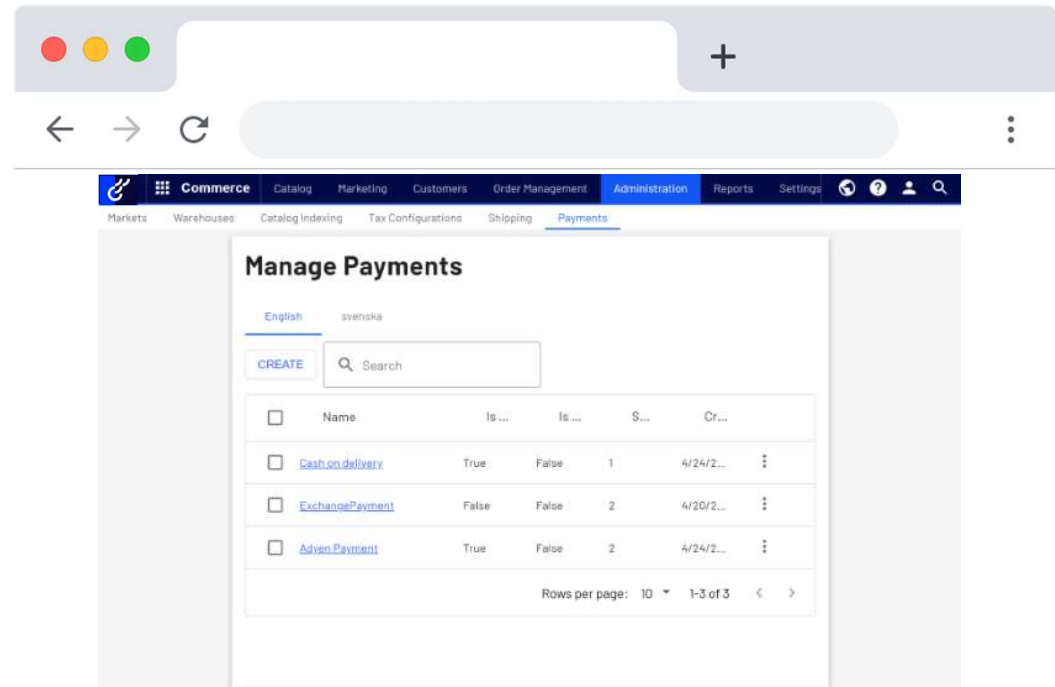




## User Interface & Editing (Commerce)

Opticon<sup>21</sup>

- Unified Editor
  - Markets, Warehouses
  - Catalog Indexing, Tax Configurations
  - Shipping & Payments
- Configuration only via API
- Membership Dropped



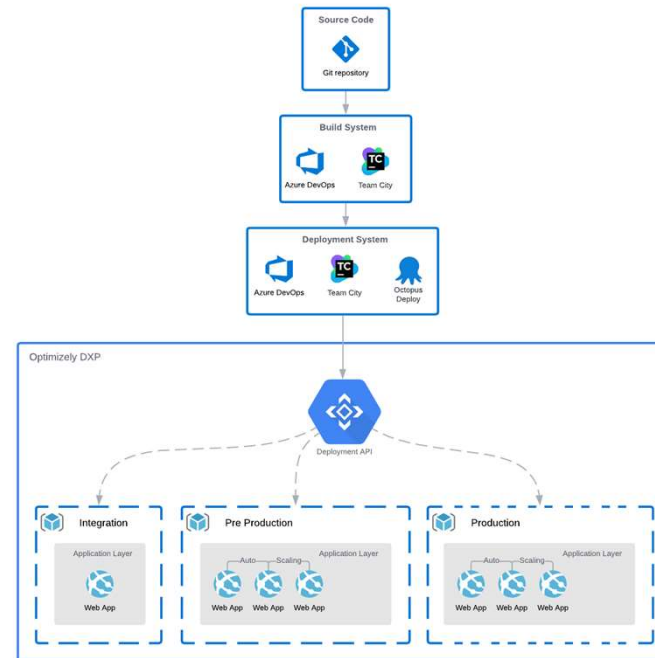
<https://world.optimizely.com/documentation/developer-guides/optimizely-platform/-net-core-preview/upgrading-commerce-14/breaking-changes-commerce-14/>



# Digital Experience Platform

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- Linux Web Apps
- New Azure provisioning
- Config Transforms Gone
- Deployment API Required
- Maintenance Page Removal



<https://world.optimizely.com/documentation/developer-guides/digital-experience-platform/deploying/optimizely-digital-experience-cloud-deployment-api/>





Roadmap

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**.NET 5 Release**



**Documentation /  
Training**



**.NET 6 Update (LTS)**



**Supporting Packages**



**Re-adding Admin  
Features**



**Rebranding**

# Demo

## CMS 12 / Commerce 14





# Preparing





## Upgrade Assistant

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- Run via CLI Tool
- Uses MSBuild
- Projects must compile
- Command line switches





## Upgrades & Breaking Changes (CMS)

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- Move connection strings / logging to appSettings.json
- Move config & initialization to startup.cs
- Rewrite any webforms based custom component
- Optimizely Forms rewritten to .cshtml files
- Replace DI framework with asp.net default
- Handles changes to new routing system
- Replace Asp.Net Membership \*
- Replace CMS Search \*

Components	25/08/2021 03:01	File folder	
CaptchaElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
ChoiceElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
FileUploadElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
FormContainerInitScript.cshtml	25/08/2021 03:01	CSHTML Source File	4 KB
FormStepBlock.cshtml	25/08/2021 03:01	CSHTML Source File	1 KB
ImageChoiceElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	3 KB
NumberElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
ParagraphTextElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	6 KB
PredefinedHiddenElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
RangeElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
ResetButtonElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	1 KB
SelectionElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
SubmitButtonElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
TextareaElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
TextboxElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
UrlElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	2 KB
VisitorDataHiddenElementBlock.cshtml	25/08/2021 03:01	CSHTML Source File	1 KB

\* Should have been changes previously

<https://world.optimizely.com/documentation/developer-guides/optimizely-platform/-net-core-preview/upgrading-cms-12/breaking-changes-cms-12/>

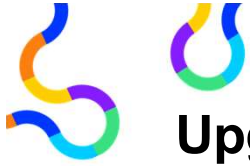


## Upgrades & Breaking Changes (Commerce)

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- Handle updates to removed areas via the API
- Move config file configuration to Startup.cs
- Handle removal of Payment class
- Solr provider support removed.
- Binary serialization not supported for ASP.NET Core types

Removed Areas
Importing and exporting catalogs
Adding countries and regions
Adding currencies
Working with business objects
Working with catalog and order meta classes fields



## Upgrades & Breaking Changes (Search & Navigation)

- Configure search via Startup.cs & FindOptions
- Indexing of Word, PDF not supported in preview

Setting	Description
IgnoreWebExceptionOnInitialization	Indicates whether <b>WebException</b> should be ignored on the Find.Commerce initialization.
CatalogContentClientConventions.FindListenOnCommerceRemoteEvents	Used for <b>CatalogContentClientConventions</b> to indicate whether to listen for remote events.
CatalogContentClientConventions.FindIndexCatalogContent	Used for <b>CatalogContentClientConventions</b> to indicate whether to allow for indexing of catalog content.
CatalogContentClientConventions.FindListenToPriceEvents	Used for <b>CatalogContentClientConventions</b> to indicate whether to listen for price events.
CatalogContentClientConventions.FindListenToInventoryEvents	Used for <b>CatalogContentClientConventions</b> to indicate whether to listen for inventory events.
CatalogContentClientConventions.FindListenToLowLevelApiEvents	Used for <b>CatalogContentClientConventions</b> to indicate whether to listen for low level API events.



## Packages

- 3<sup>rd</sup> Party packages will likely not be updated to support yet
- Packages that use Dashboard will likely change
- Forms package changes to .cshtml files

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### 404 Handler

#### Info

🕒 Last updated Mar 31, 2020

🏠 [Project Site](#)

📄 [License Info](#)

📄 [Release Notes](#)

🔒 You must login to download this packet

#### Statistics

📊 782,615 total downloads

📊 131,083 downloads of current version ⓘ



## DXP & Infrastructure

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- Integration can only be deployed to via Deployment API
- Handle config transform via Startup.cs code based on environment variable (**IWebHostEnvironment**)
- Be aware that moving to .NET 5 requires new provisioning by Optimizely
- Handle the lack of Maintenance support (Smooth Deploy)
- IIS specific web.config settings!

```
public class Startup
{
    private readonly IWebHostEnvironment _webHostingEnvironment;
    private readonly IConfiguration _configuration;

    // References
    public Startup(IWebHostEnvironment webHostingEnvironment, IConfiguration configuration)
    {
        _webHostingEnvironment = webHostingEnvironment;
        _configuration = configuration;
    }
}
```



## Resources

Opticon<sup>21</sup>

- **Preview Announcement** - <https://world.optimizely.com/blogs/martin-ottosen/dates/2021/6/-net-5-public-preview/>
- **Preview GitHub Repository** - <https://github.com/epi-server/netcore-preview/>
- **World Documentation** - <https://world.optimizely.com/documentation/developer-guides/optimizely-platform/-net-core-preview/>
- **My .NET 5 Breakdown** - <https://world.optimizely.com/blogs/scott-reed/dates/2021/7/-net-5-preview-breakdown--admin-area/>
- **Mark Hall's .NET 5 Series** - <https://world.optimizely.com/blogs/Mark-Hall/Dates/2021/7/getting-started-with-upgrade-assistant---net-5-series-part-1/>
- **Open Source JS SDK** - <https://world.optimizely.com/blogs/martin-ottosen/dates/2021/7/js-sdk-public-preview/>
- **Extending the admin interface** - <https://world.optimizely.com/blogs/mark-stott/dates/2021/8/extending-the-admin-interface-in-optimizely-cms-12/>
- **Assembly Changes** - <https://blog.tech-fellow.net/2021/08/18/whats-new-coming-in-optimizely-vnext/>
- **Testing with CMS 12** - <https://www.tiff.se/optimizely/test-framework-for-net5/>
- **Getting Started with the Preview** - <https://hacksby.me.net/2021/08/08/getting-started-with-optimizely-cms-preview/>



END

