



CREATIVE CONSTRUCTS WITH CONFIG ENTITIES

Twin Cities Drupal Camp

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**HORIZONTAL
INTEGRATION**
smart.digital agency



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Drupal™





CONFIGURATION MANAGEMENT



Separates Configuration from Content

Configuration maintained in the database as an active store, but not mixed with content.



Enables configuration syncing

Configuration can be exported from the database's Active Store into a sync directory as YML files.



Exported configuration can be managed as code

Configuration exported as YML can be treated as code, versioned and maintained in your site's code repository.



Allows for deployment of configuration

The configuration managed in your repository can be deployed across a development workflow, from Dev to Production.





CONFIGURATION ENTITIES

Like other entities, but with a twist

- Configuration Entities define structured data, just like content entities.
- You can build your own custom Configuration Entities with their own fields and metadata.
- Configuration Entities can be exported with the site configuration and deployed across environments.





USE CASE:

Managing a Library of code snippets

- Content editors should be able to add custom JavaScript or CSS snippets to pages.
- Developers should be able to define a library of JavaScript or CSS snippets that content editors can use.
- The custom snippets should be scoped to the page they're used on and not part of the global CSS/JS





JSNIPPETS MODULE



Defines a configuration entity for managing snippets

Allows developers to build a library of snippets.



Allows snippets to be referenced on a content entity

Using an Entity Reference field, you can include snippets on a content entity, whether that's a Node, Paragraph, Block, or other entity.



Writes snippets to the file system & builds libraries

Snippets are written to the file system for use and library definitions are dynamically generated so snippets can be used just as any other JS or CSS library in Drupal.



Snippets Field Formatter

A custom field formatter for the Entity Reference field loads the referenced snippet and attaches the Snippet's library to the rendered element, including that snippet on the final page.

Edit Snippet | BlueCrossMN

Not Secure | local.bcbsmn.com/admin/structure/snippet/addthis_js?destination=/admin/structure/snippet

HomeManageShortcutsadminLocalDevel

BCBSMN AdminDashboardContentStructureAppearanceExtendConfigurationPeopleReportsHelp

Edit Snippet

Home » Administration » Structure » Administer code snippets

Label *

AddThis – JS

Machine name: addthis_js

Type

JavaScript

Select between either JavaScript or CSS.

Snippet

//s7.addthis.com/js/300/addthis_widget.js#pubid=ra-58c6be1eb41c3bbd

For an external JavaScript or CSS library, provide the URL. For settings or other JavaScript or CSS snippets, provide the raw code without <script> or <style> tags.

☒ Wrap snippet in a Drupal Behavior?

Checking this box will wrap the included code with a Drupal behavior, following Drupal best practices for JavaScript.

Scope

Library scoped to footer

Specify the type and scope of the JS snippet. Code based on jQuery must be loaded in the footer by default to ensure that jQuery is loaded and available for use.

Update Snippet

Delete





Edit Snippet | BlueCrossMN

Not Secure | local.bcbsmn.com/admin/structure/snippet/medical_policy_and_utilization_management_js?desti...

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Configuration

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Help

Edit Snippet

[Home](#) » [Administration](#) » [Structure](#) » [Administer code snippets](#)

Label *

For Providers – Medical policy and utilization management JS

Machine name: medical_policy_and_utilization_management_js

Type

JavaScript

Select between either JavaScript or CSS.

Snippet

```
jQuery(document).ready(function () {
  jQuery('.accept-button').click(function () {
    jQuery('.accept-disclaimer').css('display', 'none');
    jQuery('.paragraph--type--accordion-section').css('display', 'block');
  });
});
```

For an external JavaScript or CSS library, provide the URL. For settings or other JavaScript or CSS snippets, provide the raw code without <script> or <style> tags.

☒ Wrap snippet in a Drupal Behavior?

Checking this box will wrap the included code with a Drupal behavior, following Drupal best practices for JavaScript.

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Library scoped to footer

Specify the type and scope of the JS snippet. Code based on jQuery must be loaded in the footer by default to ensure that jQuery is loaded and available for use.

Update Snippet

Delete





Edit Page Medical policy and ut X

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Snippet

Collapse

⋮

Container ID

page-js

Set an ID for the container created by this component. This will allow scripts to reference this point in the DOM.

Show row weights

SNIPPETS

+

For Providers – Medical policy and utilization management JS (medical_policy)

+

References to pre-configured style or JavaScript snippets. Snippets are managed by users with appropriate permissions.

Add another item

▶ TEMPLATE

Add Rich text

▼

to Content

Styles

- None -

Add Content

▼

to Sections

FOOTER





Provider Medical Affairs | BlueC

Not Secure | local.bcbsmn.com/providers/medical-policy-and-utilization-management

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Policies are about coverage, not recommended care

These medical policies in no way imply that members should not receive specific services based on the provider's recommendation. These policies govern coverage and not clinical practices. Providers are responsible for medical advice and treatment of patients. Members with specific health care needs should consult an appropriate health care professional.

Appealing a coverage decision

Members and providers have rights to appeal coverage decisions. These rights are included in member and provider plan documents.

[Learn about appeals](#)

[See member rights and responsibilities](#)

This information is not an offer of coverage, solicitation of coverage, summary of coverage or guarantee of coverage. All products and coverage guidelines are subject to applicable laws and regulations. Member or provider coverage is contingent on all the applicable terms, conditions, limitations and exclusions of member or provider plan documents.

Questions about a medical policy or an appeal?

Providers: Please call provider service at (651) 662-5000 or 1-800-262-0820

Members: Please call the number on the back of your member ID card or (651) 662-8000 or 1-800-382-2000 (TTY 711) or send a secure message to customer service after you [log in to your member site](#).

I ACCEPT

Acknowledgements

The five-digit numeric codes that appear on the medical policies on this web site were obtained from the Physician's Current Procedural Terminology, as contained in CPT-2018, © 2017 American Medical Association.

Current Dental Terminology © 2017 American Dental Association. All rights reserved.





```
[ (/search/fields/ ajax :{ }/ abc1 :{ aid :0/ permissionshash : 70001771501b5c010001a150201a00221a00102010005072515aax  
797 <script src="/sites/default/files/js/js_laysJ1Nmeq3RGSi7HxJz2Q0o4oVmowliazmfC2V3TUU.js"></script>  
798 <script src="/sites/default/files/snippets/js/medical_policy_and_utilization_management_js.js?psqc0n"></script>  
799 <script src="/sites/default/files/js/js_NKxKml0_j8M7fsP8S45JGkLjeQxMbRYt0LArhnc3OM4.js"></script>  
800
```





TAKEAWAYS

- Snippets can be created on a local development environment, tested and deployed forward.
- When Snippet configuration is imported, the files are generated and available as Libraries
- Snippets can also be created or modified in production through the UI with appropriate permissions
- Snippets are attached through the rendered Entity Reference field, and are scoped to just that page
- Multiple snippets can be added to a page to build out complex functionality on the fly

CAVEATS...

- Allowing editing of Snippets in production increases complexity of releases.
- Production configuration should be exported and Snippet changes merged during release.





USE CASE:

Managing a Library of Style variations

- Some components have small variations in styling. A CTA may have a blue background on one page and a grey background on another page with a different link style.
- Developers should be able to define a library of Styles that content editors can use for components.
- Content editors should be able to easily select Style variations for components when creating content.





TAXONOMY?





STYLES ENTITY



A Configuration Entity for creating a Style library

Allows developers to build a library of Styles. That Content Editors can use during content creation.



Styles can be added to Content Entities

Using an Entity Reference field, you can include styles on a content entity, whether that's a Node, Paragraph, Block, or other entity.



Styles can be scoped

The "Uses" configuration allows styles to be scoped to where they're allowed to be used, improving UX for Content Editors.



Styles add class

Through preprocess hooks in the Styles Entity module, any Styles Field is found, the referenced Style is loaded and it's classes added to the content entity's container.





Uses definitions for styles | Blu x

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Uses definitions for styles

Uses

rail|Rail components
layout|Layout components
content|Content sections
rte|Rich text editor component
cta|Call to action component
cta_wrapper|CTA container
equal_columns_wrapper|Equal columns container
featuredcontent|Featured content component
table|Table component

Add use definitions using a format of key|Label, with each definition on a new line.

Save configuration



Edit Featured - Blue | BlueCros

+

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Edit *Featured* – Blue

Label *

Featured – BlueMachine name: featured_blue

Label for the Styles.

CLASSES

comp__featured-blue

Add another

Add one more more classes to add to the container when this style is applied. To remove classes, delete the contents of the field and save.

Uses

☐ Rail components

☐ Layout components

☐ Content sections

☒ Rich text editor component

☒ Call to action component

☐ CTA container

☐ Equal columns container

☐ Featured content component

☐ Table component

Save

Delete

18



```
uuid: 7d112e4e-0c0f-486e-ae36-b608f55bf4e4
langcode: en
status: true
dependencies: {  }
id: featured_blue
label: 'Featured - Blue'
classes:
  - comp__featured-blue
uses:
  rte: rte
  cta: cta
  rail: '0'
  layout: '0'
  content: '0'
  oneboxlisting: '0'
  twoboxlisting: '0'
  table: '0'
```



Styles settings for Rich text | B x

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Home Manage Shortcuts admin Local Devel

Styles settings for Rich text

EditField settings

Label *

Styles

Help text

Instructions to present to the user below this field on the editing form.
Allowed HTML tags: <a> <big> <code> <i> <ins> <pre> <q> <small> <sub> <sup> <tt> <p>

This field supports tokens.
[Browse available tokens.](#)

☐ Required field

▼ DEFAULT VALUE

The default value for this field, used when creating new content.

Styles

- None - ▼

▼ REFERENCE TYPE

Reference method *

Uses: Filter by where the referenced entity will be used. ▼

Uses

☐ Rail components

☐ Layout components

☐ Content sections

☒ Rich text editor component

☐ Call to action component

☐ CTA container

☐ Equal columns container

☐ Featured content component

☐ Table component

Save settings

Delete





TAKEAWAYS

- A Styles Library can be easily defined using configuration entities.
- The library can be exported and managed in the code repository, and deployed to forward environments
- Uses allows us to provide some context to where a Style is relevant, improving UX for Content Editors
- By extending Entity Reference field type, we can provide an easy path for integration.





RESOURCES

- <https://horizontalintegration.blog/2019/04/05/a-custom-styles-library-with-config-entities/>
- Jsnippet module: <https://www.drupal.org/project/jsnippet>
- Style Entity module: https://www.drupal.org/project/style_entity



Join us for the Unconference

Saturday, June 8th, 9:30am-4:30pm

#tcdrupal





What did you think?

Locate this session on the TC Drupal website:

<https://2019.tcdrupal.org/schedule>

Leave your feedback

<https://2019.tcdrupal.org/feedback>

