



Training: Configuring CiviCRM Entity in Drupal 10+

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New to CiviCRM With Drupal?

A Drupal 11.2 and CiviCRM 6.4 composer template starting point with Drupal integration modules

<https://github.com/jackrabbithanna/drupal11-civicrm-proto>

Manage CiviCRM Extensions with composer

<https://github.com/skvare/civicrm-extension-plugin/>

CiviCRM Entity

Project page / issue queue: https://www.drupal.org/project/civicrm_entity

New development happens on github:

https://github.com/eileenmcnaughton/civicrm_entity

Make PRs to contribute

Other Modules used

CiviCRM Entity Leaflet - Provides “CiviCRM Entity Address Leaflet Map” Views Format

https://www.drupal.org/project/civicrm_entity_leaflet/

Viewsfield - show Views as a field on entity type displays

<https://www.drupal.org/project/viewfield>

CTools - Provides “Entity view (view mode)” in Layout Builder

<https://www.drupal.org/project/ctools>

Configuration - /admin/structure/civicrm-entity/settings

All Entity Types CiviCRM Entity supported are integrated in Drupal after module install

Views Integration works out of the box

Entity Reference fields to CiviCRM Entity types possible

Rules/Search API and other modules work

Initially pre/post hooks are enabled

Enabled Entity Types

Enabling a type provides Drupal view pages, add/edit/delete forms

Manage Display modes

Manage Form modes

Ability to add Drupal fields to CiviCRM Entity types

Disable View/Add/Edit/Delete for an entity type

Warning: Enabling an entity type generates Drupal pages
Access control for these pages differs from CiviCRM Core in some ways.

See permissions for CiviCRM Contact

https://github.com/eileenmcnaughton/civicrm_entity/blob/4.0.x/src/SupportedEntities.php#L129

“View all contacts” for /civicrm-contact/[id] pages

If you give a user role “View all contacts” they can access your contact database

Disable View/Add/Edit/Delete for an entity type

If you don't need the pages/forms to render in Drupal pages, then disable
Enable only what you need.

All view/add/edit/delete pages for all entity types can be globally disabled at
settings page

/admin/structure/civicrm-entity/settings

“Disable Drupal pages”

Customize Access Control

Permissions required to Drupal view/add/edit/delete are customizable in custom module.

Multiple permissions can be required.

Custom / granular access control possible with Drupal

`hook_ENTITY_TYPE_access()` and other methods

Example: Make Organization contacts visible to public, but deny access to all users for all other types.

Come to next training for details!

Why Drupal pages/forms?

When you need to display CiviCRM data publicly, use Drupal theme technology and make it pretty

<https://chemistryforsustainability.org/civicrm-contact/85>

Listing of CiviCRM Events: <https://connect.jocogov.org/https://connect.jocogov.org/civicrm-event/2122>

Forms - Edit entities with Drupal fields,
Give access to user roles for very specific purposes, who you don't want to give access to CiviCRM backend.

Pre/post hooks

Implementations of `hook_civicrm_pre()` and `hook_civicrm_post()`

Triggers Drupal entity hooks, like `hook_ENTITY_TYPE_update()`

Ok to disable you don't use Drupal based functionality with an entity type

Ok to disable if you only use Views with an entity type

Required for any Drupal module that needs to react to Drupal entity hooks for your entity type.

Required for Rules/ECA

Recommended with Search API

Recommended if enabling an entity type

Why disable pre/post hooks?

Performance cost. Tends to be memory intensive

Especially good to disable if updating/deleting masses of entities in batch processes, migrations

To disable pre/post hooks

Can be disabled for all entity types

“Advanced Settings”

“Disable pre/post hooks”

OR

Disable only those entity types you want, and leave others enabled.

Layout Builder

Install the deprecated module “Layout Builder Expose All Field Blocks”

This is required to get all the CiviCRM entity fields available for Layout Builder

Contribute to CiviCRM Entity Development

CiviCRM Entity is a large and complex Drupal module
Requires esoteric knowledge of both Drupal and CiviCRM

We spend time on its maintenance and improvement

<https://skvare.com/contact> to help support CiviCRM Entity development

jackrabbithanna in chat.civicrm.org